No: Coord-14/8/2021-O/o US (NLCPR)
Government of India
Ministry of Development of North Eastern Region
*****

East Block-10, Level-IV,
R.K. Puram, New Delhi- 110066.
Dated the 18th November, 2021

OFFICE MEMORANDUM

Subject: Minutes of the 31st meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 29.10.2021 at 11:00 a.m. under the Chairmanship of Secretary, Ministry of DoNER.

The undersigned is directed to forward herewith minutes of the 31st meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 29.10.2021 at 11:00 a.m. under the Chairmanship of Secretary, Ministry of DoNER, for information and necessary action. The minutes of the meeting/proposal contained therein have been duly approved by the Hon'ble Minister, Ministry of Development of North Eastern Region.

18/11/21

(N.K. Saha)
Under Secretary to the Govt. of India
Email id: nitai.kumar@nic.in

Encl. As above.

To

i. Chief Executive Officer, NITI Aayog, Yojana Bhawan, Sansad Marg, New Delhi-110001.
ii. Secretary (Home), Ministry of Home Affairs, North Block, New Delhi-110001.
iii. Secretary (Expenditure), Department of Expenditure, Ministry of Finance, North Block, New Delhi-110001.
iv. Foreign Secretary, Ministry of External Affairs, South Block, New Delhi-110011.
v. Secretary, Ministry of Health & Family Welfare, Nirman Bhawan, New Delhi-110011.
vi. Secretary, Ministry of Road, Transport & Highways, Transport Bhawan, Sansad Marg, New Delhi-110001.
vii. Secretary, Department of School Education & Literacy, Shastri Bhawan, Dr. Rajendra Prasad Road, New Delhi-110001.
viii. Secretary, Department of Drinking Water & Sanitation, Ministry of Jal Shakti, C-Wing, 4thFloor, Pandit Deendayal Antyodaya Bhawan, CGO Complex Lodhi Road, New Delhi - 110003.
ix. Secretary, Ministry of Housing & Urban Affairs, Nirman Bhawan, C - Wing, Dr. Maulana Azad Road, New Delhi-110011.

x. Secretary, Ministry of Power, Shram Shakti Bhawan,New Delhi-110001.
xi. Secretary, Ministry of Electronics and Information Technology, Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi-110003.
xii. Secretary, Department of Rural Development Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110001.
xiii. Additional Secretary & Financial Adviser, Ministry of DoNER.
xiv. Sr. Economic Adviser, Ministry of DoNER.
xv. Joint Secretary (NLCPR/NESIDS), Ministry of DoNER.

Copy to:-

Chief Secretaries of all NE States - **For necessary action.**

Copy also to:-

i. PS to Hon'ble Minister, MDoNER.
ii. PS to Hon'ble MoS, MDoNER.
iii. Superintending Engineer (TW), MDoNER.
iv. DS(SDM)/DS(AM)/DS(IFD), MDoNER.
v. Sr. Technical Director (NIC), MDoNER.
vi. PPS to Secretary, MDoNER.

Minutes of the 31st meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 29.10.2021 at 11:00 a.m. under the Chairmanship of Secretary, Ministry of DoNER through Video Conferencing (VC).

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The 31st meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee was held on 29.10.2021 at 11:00 a.m. to discuss project proposals received from State Governments of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura for consideration for selection/change in scope of work/condonation of delay in issue of work order under NESIDS. Chief Secretaries of the concerned States co-chaired the meeting. List of participants is at **Annexure-A**.

2. At the outset, Secretary, M/o DoNER welcomed the Chief Secretaries and members of IMC/NESIDS Committee, representatives of State Governments and line Ministries of the Government of India. During the deliberations, Secretary, MDoNER underlined the importance of strengthening coordination between the Ministry and State Governments.

2.1 Further, State Governments were requested for timely utilization of funds released by the Ministry for implementation of the projects to avoid any cost and time overruns. In order to streamline release of funds to Implementing Agencies, State Governments were advised to implement EAT module of PFMS and onboard all the implementing agencies on PFMS.

2.2 The Committee was apprised that Ministry often receive project proposals through CM / VIP references for consideration under NESIDS, which are on the other hand not included by the States in their priority list. State Governments were therefore requested to take into consideration such project proposals while preparation of priority list and ensure submission of related Concept Notes so that these can be accorded higher priority.

2.3 State Governments were also requested to expedite submission of work orders of 39 projects sanctioned under NESIDS. Regarding project proposals under new Special Development Package for BTC, State Government of Assam was requested to expedite submission of requisite project proposals for consideration. Thereafter, the Committee took up the project proposals for detailed discussion and recommendation as detailed below:

Mizoram

3. Project proposal of 'Augmentation of N. Vanlaiphai Water Supply Scheme' at estimated cost of Rs.20.50 crore - For Selection

3.1 Chief Secretary, Mizoram alongwith the officials of the State Government participated in the meeting through VC. Representative of the State Government presented the project proposal and detailed how the project would play a vital role in addressing the drinking water issues for N.Vanlaiphai town of Mizoram, which borders Myanmar and is an important trade centre with immense trade and tourism potential.

3.2 Representative of Ministry of Housing & Urban Affairs stated that State Government may ensure that the projects are not in duplication with the projects implemented under AMRUT-2 and Jal Jeevan Mission. He suggested that there should be provision of tap water supply to each household under the project. Further, operation and maintenance cost may also be included in the project proposal.

3.3 State Government stated that the observations of Ministry of Housing & Urban Affairs would be taken into consideration at DPR preparation stage.

3.4 State Government was also requested to provide the linkage of the projects with promotion of tourism, with due output and outcome details. Further, State was also asked to ensure availability of land and other statutory clearances prior to sanction of the projects.

3.5 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-B**

3.6 After due deliberation, the Committee recommended the project proposal of 'Augmentation of N. Vanlaiphai Water Supply Scheme' at estimated cost of Rs.20.50 crore for selection under NESIDS with the above mentioned stipulations.

4. Project proposal of 'Augmentation of Greater Mamit Water Supply Scheme – Part II' at estimated cost of Rs.40.00 crore - For Selection

4.1 Representative of the State Government gave details on the project proposal and stated that Mamit District is one of the Aspirational Districts in India. The town water supply is only once in a week. The distribution network is old and shows leakage of water and covers only few areas. Hence, there is a need for increasing water storage capacity, filtering, new distribution system, construction of new main lines and

disinfection. The project proposal will play an important role in addressing the acute shortage of drinking water supply.

4.2 Representative of Ministry of Housing & Urban Affairs stated that State Government may ensure that the projects are not in duplication with the projects implemented under AMRUT-2 and Jal Jeevan Mission. He suggested that there should be provision of tap water supply to each household under the project. Further, operation and maintenance cost may also be included in the project proposal.

4.3 In response, State Government stated that the observations of Ministry of Housing & Urban Affairs will be taken into consideration at DPR preparation stage.

4.4 State Government was also requested to provide the linkage of the projects with promotion of tourism, with due output and outcome details. Further, State was also asked to ensure availability of land and other statutory clearances prior to sanction of the projects.

4.5 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-C**

4.6 After due deliberation, the Committee recommended the project proposal of 'Augmentation of Greater Mamit Water Supply Scheme – Part II' at estimated cost of Rs.40.00 crore for selection under NESIDS, with the above mentioned stipulations.

5. Project proposal of 'Construction of 2x10MVA, 33/11 KV Sub Station at Chite, Aizawl with Associated Linking Lines' at estimated cost of Rs.10.49 crore - For Selection

5.1 Representative of the State Government gave details on the project proposal and stated that at present Aizawl City is fed from 33/11 kV Sub-Stations at Zuangtui, Mualpui, Durtlang, Luangmual, Tlangnuam, Chawnpui and Indoor S/S. Some sub-station are located in thickly populated areas which results in problem in maintenance of sub-station incoming and outgoing feeders, extension in populated areas also results long 11kV distribution lines with a limited and unsafe space and more distribution losses as well. To overcome the above problems and also to provide more reliable power supply within Aizawl City at lesser distribution losses, construction of 2x10MVA, 33/11kV Sub-Station at Chite is proposed. This would also provide a reliable power for Chite Agricultural and Industrial area.

5.2 Representative from NITI Aayog informed that time line of the project is on higher side. In response to that representative of the State Government stated that the project would be completed within 24 month from date of sanction.

5.3 State Government was also requested to provide the linkage of the projects with promotion of tourism, with due output and outcome details. Further, State was also asked to ensure availability of land and other statutory clearances prior to sanction of the projects.

5.4 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-D**

5.5 After due deliberation, the Committee recommended the project proposal of 'Construction of 2x10MVA, 33/11 KV Sub Station at Chite, Aizawl with Associated Linking Lines' at estimated cost of Rs.10.49 crore for selection under NESIDS, with the above mentioned stipulations.

6. Two (02) projects for condonation of delay in award of work

6.1 The following two project proposals for condonation of delay in award of work were also placed before the Committee for consideration:

S. No.	Project	Cost (Rs. in crore)
i.	Improvement and upgradation of different facilities at Langpui Airport in Mizoram under NESIDS	19.59
ii.	Construction of Two residential Hostel at Zoram Medical College, Falkawan, Mizoram under NESIDS	20.00
	Total	**39.59**

6.2 State Government was requested to explain reasons for delay in award of work.

6.3 On the request of State Government, the aforementioned two proposals for condonation for delay in award of work were deferred by the Committee.

Assam

7. Thirteen (13) connectivity projects; two (02) power projects and one (01) education project in Assam at estimated cost of Rs.744.47 crore - For Selection.

7.1 Additional Chief Secretary, Assam alongwith the officials of the State Government participated in the meeting through VC. The following sixteen project proposals submitted by the State Government for consideration under NESIDS were placed before the Committee for consideration:

S. No.	Project	Project cost (Rs. in crore)
i.	Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Tipom.	60.00
ii.	Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya.	23.91
iii.	Improvement & Widening of Lokopriya Gopinath Bordoloi road, SH-3B from Ch. 0.00 KM to Ch. 18.65 KM.	85.50
iv.	Improvement & Upgradation of Jamuguri to Nagsankar connected road (Ch. 0.00 KM to Ch. 12.50 KM) in Sonitpur District.	20.09
v.	Improvement & Upgradation of Maibong Semkhor road (Ch. 0.00 KM to 28.32 KM).	78.11
vi.	Improvement & Strengthening of Bishmuri Saralpara Sarbhog road in Kokrajhar District.	72.99
vii.	Construction of 2x50 MVA, 132/33 KV GIS (Gas Insulated Substation) at 220/132 KV Amingaon GIS.	32.07
viii.	Augmentation of 2x100 MVA, 220/132 KV Rangia GSS by 2x200 MVA Auto-Transformer.	24.47
ix.	Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji Longhup.	52.56
x.	Construction of RCC Bridge No.3/1 on the road from NH-39 near Silonijan State Dispensary to Dhansiri Par Ghat via Panika basti (including approach road)	22.24
xi.	Improvement of road from Hidipi Bazar at DS road to Bokajan via Ghandhipur (L=18.00 KM)	26.23

xii.	Improvement of road from 5th KM of BBDC road to 4th KM of Rishakhidi road (Ch. 0.00 KM to Ch. 8.00 KM).	22.89
xiii.	Improvement of road from 16th KM of BBDC road to Phangcherrop (Ch. 0.00 KM to 14.00 KM).	44.31
xiv.	Improvement/Construction of Road from Moisokilling at DS road to Mulhoi via Saijang (L=25 KM).	43.23
xv.	Construction of road from ND Block to Arlongvoti (L=40 KM).	101.97
xvi.	Implementation of Tele-Education for 543 Pratyabhan Schools in Assam	33.9
	Total	**744.47**

7.2 Representatives of MoRTH; MoPower and MoEducation did not raise any objection over the project proposals of road, power and education, respectively during the deliberations.

7.3 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-E**

7.4 In view of the fact that the State of Assam has balance normative allocation of Rs.304.66 crore only for the current financial year and after due deliberation at the Committee, the request of the State Government to reprioritize the projects against their balance normative allocation under NESIDS was accepted ; and this item was deferred to be taken up at the subsequent deliberations of the Committee.

Arunachal Pradesh

8. Three (03) connectivity projects in Arunachal Pradesh at estimated cost of Rs.60.00 crore- For Selection.

8.1 Chief Secretary, Arunachal Pradesh alongwith the officials of the State Government participated in the meeting through VC. The following three project proposals submitted by the State Government for consideration under NESIDS were discussed by the Committee:

S. No.	Project	Project cost (Rs. in crore)
i.	Construction of Town double lane road at Pokriang SDO HQ. Langrh	20.00

	and Phassang circle HQ. and adjoining villages in Arunachal Pradesh	
ii.	Construction of road from Kodum CO HQ to Bam Tri-junction 16.5 Km under West Siang district in Arunachal Pradesh	20.00
iii.	Construction road from Marung Gika to Panior Bridge Point via Sarchgai, mate, Kusuk, and Pan-21 Km (SH: Widening, CD Work, Protection work, WBM, Carpeting and CC Drain) in Papum Pare district in Arunachal Pradesh	20.00
	Total	**60.00**

8.2 Representative of the State Government briefed the Committee about these projects and underlined their importance for improvement of road connectivity in the State.

8.3 Representative of Ministry of Road, Transport & Highway (MoRTH) made certain technical observations on specifications relating to formation cutting, black topping; thickness of the crust composition; traffic details; execution of project as per IRC codes/manuals etc. of the project proposals and requested the State Government to consider these observations for incorporation in the project proposals.

8.4 During the deliberation, the committee opined that the project proposals submitted by State Government appear incomplete in terms of design. Apparently, in an attempt to rationalize cost, certain essential components like drainage, WBM layers, etc. were omitted. It was made clear that projects designs should be complete as per relevant National Codes and of good quality in all aspects, including adherance to latest and suitable technical specifications, for them to be considered. Incomplete designs can lead to faulty project execution, apart from time and cost over-runs, and hence would not be considered.

8.5 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-F**

8.6 After due deliberation, the Committee recommended that the State Government may address the issues regarding incompleteness of the project proposal and observations of MoRTH and, accordingly, recast/reconsider all the project proposals before submitting to the Ministry for placing in the next meeting of the Committee for consideration.

Manipur

9. Six (06) projects for strengthening tourism infrastructure in Manipur at estimated cost of Rs.130.70 crore - For Selection.

9.1 Chief Secretary, Manipur alongwith the officials of the State Government participated in the meeting through VC. The following six project proposals submitted by the State Government for consideration under NESIDS were discussed by the Committee:

S. No.	Project	Project cost (Rs. in crore)
i.	Construction of Road connectivity, water and power facilities at Dzuko valley, Senapati District, Manipur	29.33
ii.	Development of Infrastructure for road connectivity, water facilities, power supply at Laininghou Sanamahi Shanglen, Wangoi, Imphal West, Manipur	20.00
iii.	Construction of Infrastructure for road connectivity, water and power facilities at the Sadhu Chiru waterfall, Kangpokpi District, Manipur	20.36
iv.	Development of Infrastructure for road connectivity, water faculties, power supply at Gwarok Mahadeva Temple Complex, Thoubal District, Manipur	20.07
v.	Development of Infrastructure for road connectivity, water and power faculties at Vishnu Temple Complex, Bishnupur District, Manipur	20.01
vi.	Infrastructure development of road connectivity, water faculties, power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93
	Total	**130.70**

9.2 Representative of the State Government briefed about these projects and underlined their importance in the State.

9.3 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-G**

9.4 In view of the fact that that the State of Manipur has balance normative allocation of Rs. 19.67 crore only for the current financial year, and after due deliberation at the Committee, the request of the State Government to reprioritize the projects against their balance normative allocation under NESIDS was accepted; and

this item was deferred to be taken up at the subsequent deliberations of the Committee.

Meghalaya

10. Project proposal 'Construction of a road from Shillong city to Umroi Airport' at estimated cost of Rs.50.00 crore – For Selection

10.1 Chief Secretary, Meghalaya alongwith the officials of the State Government participated in the meeting through VC.

10.2 Representative of the State Government briefed the committee about the project proposal and stated that the project with a total road length of 13.00 km starts from 2nd Km of Mawlai bypass road and will connect Shillong city with Umroi Airport and will pass through Umsaw, Umphrew and Umrynjah villages in a single stretch. It will be the shortest and most favoured route between Shillong city and Umroi Airport, the only airport in the State.

10.3 Representative of MoRTH on the project proposal stated that there is another road on the same route and requested the State Government to clarify the reasons for construction of new road instead of extension/upgradation of existing road. In response thereof, State Government stated that the stretch proposed in the project is different from the existing one and there is no duplication.

10.4 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-H**

10.5 After due deliberation, the Committee recommended the project proposal 'Construction of a road from Shillong city to Umroi Airport' at estimated cost of Rs.50.00 crore for selection under NESIDS.

11. Project proposal 'Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60 Kms)' at estimated cost of Rs.66.54 crore – For Selection

11.1 Representative of the State Government briefed the committee about the project proposal and stated that Agia Medhipara Phulbari Tura (AMPT) road is important and one of the oldest roads in the State of Meghalaya. The AMPT road is an inter-state road serving for both the Stats of Meghalaya and Assam. The main objective of this proposal is to improve the AMPT roads by providing strengthening the existing pavement, pucca

side drains, footpath with railing, protection and CD works and also earth work on the road.

11.2 Representative of MoRTH on the project proposal made certain observations and proposed that the geometrics of the project should be improved as per the National Highways standard. In response thereof, State Government stated that changing the specification to National Highway standard may not be possible as it may lead to change in specification of the project which may result in land availability issues for the project. In respect of the other observations State Government stated that the observations of MoRTH will be addressed at DPR preparation stage.

11.3 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-I**

11.4 After due deliberation, the Committee recommended the project proposal 'Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60 Kms)' at estimated cost of Rs.66.54 crore for selection under NESIDS.

12. Project proposal 'Setting up of State of Art Diagnostic Centre, Tura' at estimated cost of Rs.27.51 crore – For Selection

12.1 Representative of the State Government briefed the committee about the project proposal and stated that the project will facilitate improvement in the health status of the people of Meghalaya and to ensure that the quality healthcare is available and accessible to them. The project will cater to all sections of the society of Garo Hills region wherein citizens can have access to latest diagnostic investigations at very affordable rates.

12.2 Representative of Ministry of Health and Family Welfare informed that the project proposal was submitted to their Ministry earlier also by Ministry of DoNER for examination and comments, in respect of which they had made certain observations and sought comments of State Government, which are still awaited. Final comments of Ministry of Health and Family Welfare will be submitted once comments of State Government will be received.

12.3 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-J**

12.4 After due deliberation, the Committee recommended the project proposal 'Setting up of State of Art Diagnostic Centre, Tura' at estimated cost of Rs.27.51 crore

for selection, subject to the conditions that the State Government may address the concerns of MoH&FW at DPR preparation stage and that funds to the extent of balance normative allocation of the State for the current financial year in respect of the said project will be met by MDoNER and remaining cost, if any, has to be borne by the State Government from its own resources.

13. Project proposal 'Greater Mawkyrwat Water Supply Scheme' at estimated cost of Rs.72.00 crore- For Selection

13.1 The project proposal 'Greater Mawkyrwat Water Supply Scheme' could not be discussed due to exhaustion of normative allocation of the State of Meghalaya for the current financial year.

14. Project 'Construction of Shopping Complex cum Auditorium near Lumshad, Lad Mawgap in Meghalaya' worth Rs.2.31 crore under NLCPR scheme- For change in scope of work

14.1 On request of State Government, the proposal for change in scope of work of the project 'Construction of Shopping Complex cum Auditorium near Lumshad, Lad Mawgap in Meghalaya under NLCPR scheme' was deferred by the Committee.

15. Project 'Construction including M&BT of Intermediate lane on Rongjeng Mangsang Adokgre Road from 0.00 Km to 32.00 Km. and 39.00 KM to 43.00 KM including 90.00 m bridge over lldek river at 44th Km in Meghalaya' worth Rs.210.00 crore under NLCPR scheme – For change in scope of work

15.1 The committee was apprised that the project was approved 'in principle' for the entire stretch at a cost of Rs.210 crore in 150th NLCPR Committee meeting held on 28.3.2017, out of which Rs.123.28 crore was to be funded from balance entitlement of Meghalaya as Ist phase under NLCPR scheme. The work was to be started from 0.00 km and to be executed in continuity. Later it was decided that the remaining balance amount of Rs.86.72 crore would be funded by NEC. Accordingly, an amount of Rs.40.22 crore (after adjusting Rs.10 lakh as initial payment) was released by MDoNER to State Government under NLCPR and Rs.21.21 cr. was released by NEC. The sanction of the balance amount of this road was placed in the SFC meeting held on 27.6.2018 for appraisal along with few other projects under NEC funding at New Delhi. JS&FA, MDoNER did not recommend the project as per EFC of December 2017 NEC was not supposed to sanction any new project any other than NERSDS. Accordingly, NEC closed the project. The said matter was discussed in the review meeting of projects funded under NLCPR/NEC under the Co-chairmanship of the Secretary, Ministry of

DoNER and Chief Secretary, Government of Meghalaya held on 25.01.2021 and wherein NEC suggested that funds for the project may be divided into stretches and, the Chief Engineer, PWD, Government of Meghalaya may discuss the process of funding of the balance amount for the project under NERSDS. With respect to the restriction of sanction of the project under NLCPR scheme, the State Government was suggested to formulate DPR with the change in scope within the sanction cost of Rs. 123.38 crore. Accordingly, State Government of Meghalaya has submitted the proposal for change in scope of work at cost of Rs.123.38 crore with recommendations of SLEC in its meeting held on 06.09.2021.

15.2 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-K.**

15.3 After due deliberation, the Committee recommended the proposal for change in scope of work in respect of the project 'Construction including M&BT of Intermediate lane on Rongjeng Mangsang Adokgre Road from 0.00 Km to 32.00 Km. and 39.00 KM to 43.00 KM including 90.00 m bridge over lldek river at 44th Km in Meghalaya' under NLCPR scheme within the approved cost of Rs.123.38 crore. For the IInd phase, State Government may submit the proposal under the scheme of NERSDS.

<u>Nagaland</u>

16. Project proposal for "Strengthening of health systems for the Management of CoVID 19 pandemic with special reference to combat the impending 3rd wave of the pandemic in Nagaland" at estimated cost of Rs.20.00crore - For Selection.

16.1 Chief Secretary, Nagaland alongwith the officials of the State Government participated in the meeting through VC. Representative of Department of Health & Family Welfare briefed about the project and underlined its importance in the State.

16.2 With apprehension of affecting children in impending 3rd wave of CoVID, Nagaland is also focusing on strengthening pediatric care and formulating children-specific protocol, besides ramping up vaccination, setting up more testing labs, setting up medical oxygen plants in hospitals, ramping up Covid beds, strengthening home monitoring mechanism, forming task forces with focus on third wave, door-to-door surveillance, augmenting health manpower etc.

16.3 The Committee was apprised that Nagaland has received 27 PSA plants with support from both national and international agencies. State has been receiving support for strengthening of ICUs and establishing Pediatric ICU through NESIDS/NHM/other

agencies. Therefore, other requirements needed for management CoVID-19 such as patient transport ambulance, Liquid oxygen plant, generator for CHCs, etc., are proposed through this proposal for support under NESIDS.

16.4 Representative of Ministry of Health & Family Welfare (MoH&FW) requested the State Government to ensure that there is no duplication in the components of the health project with any other project sanctioned for strengthening health infrastructure of the State by Government of India.

16.5 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-L**

16.6 After due deliberation, the Committee recommended the project "Strengthening of health systems for the Management of CoVID 19 pandemic with special reference to combat the impending 3rd wave of the pandemic in Nagaland" at estimated cost of Rs.20.00 crore for selection under NESIDS subject to the condition that State Government may address the observations/concerns of MoH&FW in DPR.

17. Proposal "Implementation of Educational Infrastructure related to IT projects in 190 schools across Nagaland" at estimated cost of Rs.19.79 crore - For Selection.

17.1 Representative of Department of Education briefed about the project and informed that the project will create a real-time digital learning ecosystem in Nagaland's Government Schools with LIVE and interactive expert-led teaching powered by localized digital content, individualized student performance analytics, and real-time geo-mapped monitoring of the entire network. State officials also informed that EdCIL (India) Limited will set up an entire infrastructure framework for Virtual Classrooms and will operate the platform.

17.2 Representative of Ministry of Education supported the project proposal of the State Government.

17.3 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-M**

17.4 After due deliberation, the Committee recommended the project "Implementation of Educational Infrastructure related to IT projects in 190 schools across Nagaland" at estimated cost of Rs.19.79 crore for selection under NESIDS.

18. Project "Strengthening Health Infrastructure for Comprehensive response to possible Outbreak of COVID19 in Nagaland" under NESIDS- For change in scope of work

18.1 Representative of Department of Health & Family Welfare informed that Nagaland received 27 PSA Oxygen plants from Central Government (PMCARES) and also from other Agencies (UNICEF, UNDP, DIAGEO, Turkey, ACT Grant, HANS Foundation, etc.). Out of 27 nos. of PSA plants of various capacities received by the state -

(i) Only 6 PSA plants could be functionalized till date.

(ii) 14 PSA plants require new Generator Sets to provide uninterrupted power supply to the plants.

(iii) 13 health facilities require 3 phase power connection, dedicated transformer to keep the PSA plants up and running.

(iv) 6 PSA plants are being relocated from DH to the CHCs and for which PSA housings besides electrification, 3 phase power connection, dedicated transformer, Generator shed, etc. are required to make the plants operational.

18.2 As regards already sanctioned component of Ambulances, state government official/s informed that many ambulances supported under NHM and deployed in the peripheral health facilities have become old and undependable for frequent patient transport. Now, there is no provision for CAPEX for replacement of these ambulances under the NHM. State has received 24 BLS ambulances from other central/state agencies. These BLS ambulances have been deployed to strategic health facilities covering all the 12 districts of the State.

18.3 Representative of the State Government proposed to address the urgent need to functionalize the PSA plants and purchase Patient Transport Ambulance by utilizing the approved funds of project "Strengthening health Infrastructure for Comprehensive response to possible Outbreak of COVID19 in Nagaland" for purchase of 4 PSA plants,11 ALS & 10 BLS ambulance amounting to Rs 709.00 Lakh.

18.4 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-N**

18.5 After due deliberation, the Committee recommended the proposal of State Government for change in scope of work in respect of the project under NESIDS.

19. Project "Upgradation of Naga Hospital at Kohima under NLCPR scheme" under NLCPR for change in scope of work

19.1 The committee was apprised that NLCPR Committee in its 1st meeting held in the Planning Commission on 21.12.1998 approved the project for a 176 bedded (Naga) Hospital at Kohima at an estimated cost of Rs.25 crore. The Planning Commission had released a total of Rs.18 crore in three instalments. Out of Rs.18 crore released, Government of Nagaland have furnished utilization certificate for Rs.14.27 crore. There is a balance unutilized amount of Rs.3.72 crore. Due to non fulfillment of commitment by its Executing Agency, the work on the hospital has remained at a standstill for long. However, Stage-I (comprising 102 beds) was completed and has been handed over to the State Government in September 2004.

19.2 Chief Secretary, Nagaland proposed that the unspent balance of Rs.3.72 crore lying with the State Government out of the total released of Rs. 18.00 crore by the Planning Commission for the project, may be permitted to be utilized for purchase for medical equipment for the hospital.

19.3 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-O.**

19.4 After due deliberation, the Committee recommended the proposal is old and required more time for discussion. Therefore, this may be deferred for detailed discussion in next IMC meeting.

<u>Tripura</u>

20. Project proposal of 'Construction of 06 schools building in Tripura' at cost of Rs.52.02 crore' - For Selection.

20.1 Chief Secretary, Tripura alongwith the officials of the State Government participated in the meeting through VC. Representative of the State Government deliberated on the project proposal and stated that the project includes construction of 06 units higher secondary schools building in Tripura at various locations.

20.2 Copy of final checklist-cum-agenda notes, as placed before the committee, along with all its enclosures, is at **Annexure-P**

20.3 After due deliberation, the Committee recommended the project proposal of 'Construction of 06 schools building in Tripura' at cost of Rs.52.02 crore' for selection under NESIDS.

21. With the above selection, the position of the Normative Allocation/available allocation of the NER States under NESIDS for FY 2021-22 is tentatively as under:

Tentative Normative Allocation (NESIDS) (Rs. in crore)							
State	**Normative allocation for FY 2021-22**	**Project Sanctioned / recommended for sanction**		**Project selected but not yet sanctioned**			**Available Allocation (II-IV-VII)**
	2021-22 (Tentative)	**(No.)**	**(Cost)**	**(No)**	**(Cost)**	**DoNER's portion of VI**	
(I)	**(II)**	**(III)**	**(IV)**	**(V)**	**(VI)**	**(VII)**	**(VIII)**
Arunachal Pradesh	156.72	0	0	0	0	0	156.72
Assam	333.36	1	28.70	0	0	0	304.66
Manipur	119.76	4	49.41	4	50.68	50.68	19.67
Meghalaya	129.12	1	3.65	3	144.05	125.47	0.00
Mizoram	125.04	3	5.59	5	97.66	97.66	21.79
Nagaland	122.16	0	0	2	39.79	39.79	82.37
Sikkim	78.48	1	5.33	0	0	0	73.15
Tripura	135.36	1	19.32	2	88.01	88.01	28.03
Total	**1200.00**	**11**	**112.00**	**16**	**420.19**	**401.61**	**686.39**

22. The meeting ended with a vote of thanks to the Chair.

*****

Annexure-A

31st meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 29.10.2021

List of Participants

Sl. No.	Organization	Officers attended
1.	Members of Inter Ministerial Committee/NESIDS Committee/ their representatives	Shri Lok Ranjan, Secretary, M/o DoNER (in Chair)
		Shri Naresh Kumar, Chief Secretary, Govt. of Arunachal Pradesh (co-chair), on VC
		Shri Syedain Abbasi, Additional Chief Secretary, Assam, on VC
		Dr. Rajesh Kumar, Chief Secretary, Govt. of Manipur (co-chair), on VC
		Smti. R.V. Suchiang, Chief Secretary, Govt. of Meghalaya (Co-chair), on VC
		Shri Lalnunmawia Chuaungo, Chief Secretary, Govt. of Mizoram (co-chair), on VC
		Shri, Kumar Alok, Chief Secretary, Govt. of Tripura, on VC
		Shri Amardeep Singh Bhatia, Principal Secretary, Health & Family Welfare, Govt. of Nagaland, on VC
		Shri T. Kabilan, Director (NE States Division), NITI Aayog on VC
		Shri Saurabh Endley, Joint Secretary, M/o DoNER
		Shri Krishna Mohan Uppu, Deputy Secretary, M/o Home Affairs, on VC
2.	Other Special Invitees from Line Ministries	Shri Elangbam Robert Singh, Director, Ministry of Health & Family Welfare, on VC
		Shri Ashok Kumar, Director, Ministry of Power, on VC
		Shri Goutam Ghosh, Director, Ministry of Power, on VC
		Dr. V K Chaurasia, Joint Advisor (PHEE), Ministry of Housing & Urban Affairs, on VC
		Shri P. P. Gupta, Director, Ministry of Education, on VC
		Shri Pooran Singh, Superintending Engineer, Ministry of Road, Transport and Highways, on VC
		Ms. Varinder Kaur Bhalla, Under Secretary, Ministry of Health & Family Welfare, on VC

3.	Government of Arunachal Pradesh	Shri Kaling Tayeng, Commissioner (PWD), on VC
		Shri Prashant S. Lokhande, Commissioner (Planning & Investment), on VC
		Smt. Ayushi Sudan, Special Secretary (Planning & Investment), on VC
		Shri T. Taloh, Chief Engineer, PWD, on VC
		Shri Dugom Ete, Chief Engineer, PWD, on VC
		Shri Nani Robin, Superintending Engineer, PWD, on VC
		Shri Punyendu Mishra, Director (Project Coordination), on VC
		Shri Millo Pushang, Joint Director (Project Coordination), on VC
4.	Government of Assam	Shri B.R. Samal - Principal Secretary, Hill Areas Department, on VC
		Shri B. Kalyan. Chakravarthy - Principal Secretary, Education Department, on VC
		Shri R. Kemprai - Commissioner & Spl. Secretary, Public Works Road Department, on VC
		Shri Gautam Talukdar - Secretary, Power Department, on VC
		Shri P.K. Talukdar - Secretary, T & D Department, on VC
5.	Government of Manipur	Shri P. Vaiphei, Additional Chief Secretary (Planning), on VC
		Shri V.Vumlunmang, Additional Chief Secretary (Health), on VC
		Dr. Y. Suraj Singh, Deputy Secretary (Health), on VC
		Dr. H. Babychand Devi, Additional Director (Health), on VC
		Dr. R.K. Radhesena Devi, Joint Director (Planning), on VC
		Shri O. Beda Singh, ARO (Planning), on VC
6.	Government of Meghalaya	Shri D. P. Wahlang, Addl. Chief Secretary, on VC.
		Shri Sampat Kumar, Principal Secretary, Health & Family Welfare on VC
		Dr. Vijay Kumar .D, Commissioner & Secretary, Planning on VC
		Shri R. Lyndoh, OSD & Ex- Officio Secretary, Planning on VC.
		Shri L. D. Suchiang, CE, PWD(Roads) on VC.
		Dr. A. War, DHS(MI) on VC
		Shri G. K. Marak, CE, PWD(Roads) on VC.

7.	Government of Mizoram	Shri Lalmalsawma Pachuau, Secretary Planning Deptt., on VC
		Shri Lalmuanzova Hnamte, Secretary PHE, Deptt., on VC
		Shri H C Lalnunzira, Chief Engineer, PHE Deptt., on VC
		Shri Lalduhzuala Sailo, Engineer in Chief, Power & Electricity Deptt., on VC
		Shri J.H. Malsawma, Supt. Engineer, Power & Electricity Deptt., on VC
		Smt. V.Vanlalrengi, Research Officer, Planning Deptt., on VC
8.	Government of Nagaland	Shri. Imokaba Jamir, Commissioner & Secretary, Planning &Co-ordination Department, on VC
		Shri. Augustine M. Yanthan, Joint Development Commissioner, Planning &Coordination Department, on VC
		Shri. Shanavas C., Principal Director, School Education, on VC
9.	Government of Tripura	Smt. Saumya Gupta, Secretary, Education, RD, on VC
		Shri A. Roy, Secretary, Planning/ Agriculture Department, on VC
10.	Ministry of DoNER, GoI	Shri S. D. Meena, Deputy Secretary
		Shri Ankit Mishra, Deputy Secretary
		Shri G.S. Maheshwal, SE, TW
		Shri Purushottam Verma, Deputy Secretary (IFD)
		Shri A.K. Pandey, Under Secretary
		Shri N.K. Saha, Under Secretary
		Shri Mahesh Chander, Assistant Section Officer
		Ms. Shimpy, Assistant Section Officer
		Shri Viveka Nand, Senior Secretariat Assistant

******

ANNEXURE-AD

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Mizoram**

Name of Project: Augmentation of N. Vanlaiphai Water Supply Scheme.

Project Description/Summary (not exceeding 200 words): N.Vanlaiphai is the biggest habitation along the central part of Mizoram bordering Myanmar. And it is important trade centre and Govt centre and population increases rapidly in this town. At present, N.Vanlaiphai town may be the only town in Mizoram which do not have proper water supply as per CPHEEO norms. The PHE Department has provided gravity piped water supply from two small stream sources i.e Varhva Lui and Kawrpui Lui which were commissioned in the year 1986. There has not been any augmentation or new schemes for 30 years. These small streams have depleted year by year due to deforestation, increase in population etc. The water supply problem of the town is very acute as the availability of water from existing sources is very limited which is insufficient as per drinking water norms.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2050.00 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Water supply infrasture
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): No	
	Tourism potential: No	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New Project
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	Project involves O&M, staff component and recurring expenses for maintenance. State Government is agreed to take care of these expenses and activities.

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1.7	Broad Breakup of Major Components of the project Cost as per concept note	Breakup of Major Components of the projects as per abstract of cost

SL No.	Items of Work	Amount (Rs.)
1	**Civil Works :**	
1	Intake cum water storage	1,03,44,000.00
2	Const of RCC Weir, Raw Water Mains,	67,96,000.00
3	Rising Main - 125 mm dia, 5.5 km	2,26,73,745.00
4	Water Treatment Plant : 0.90 MLD	1,18,77,260.00
5	Chemical House	59,39,040.00
6	Approach Roads	50,97,117.00
7	Buildings :	1,54,65,130.00
8	Security Fencing	29,31,360.00
9	Un-accounted-for Water	22,73,300.00
10	Feeding Main	74,29,164.00
11	Distribution System :	4,08,52,570.00
12	Indemnification of Roads :	48,48,148.00
13	Carriage of materials	21,36,444.00
14	Laboratory Equipment & all fitting and	15,23,000.00
15	Side drain for WTP	19,66,600.00
	Sub-Total-I	**14,21,52,878.00**
2	**Pumps & Machineries :**	
1	Pumping System , Communication,	3,46,27,620.00
2	SITC of HOT Crane 5 MT	32,85,000.00
3	Power Supply	1,89,45,000.00
	Sub-Total-II :	**5,68,57,620.00**
	Total :	**19,90,10,498.00**
	Add 3% for Contingencies	59,70,314.94
	Grand-Total :	**20,49,80,812.94**
	Say :	20,50,00,000.00

1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any		No
1.8	Date of receipt of proposal/concept note from State Government (SG)		20.05.2021
1.9	Original		
1.10	Revised (if any)		

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2	**Is the project in question supported/coverable under any other scheme of Central or State Government**		Not Available
3	**Normative allocation of SG and related details**	**Normative Allocation is Rs.125.04 Cr. Total Sanctioned + Seclected: Rs.36.04 Balance Normative Allocation: Rs.89.00 cr.**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Niti Aayog	13-05-2021	No comments received till date
	Ministry of Jal Shakti	13-05-2021	No comments received till date
	Min. of Housing and Urban Affairs	13-05-2021	No comments received till date
	Min. of Rural Development	13-05-2021	No comments received till date
	IFD, MDoNER	13-05-2021	No comments received till date
	Technical Wing, MDoNER	13-05-2021	18-05-2021
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**		
7	**Important observations/comments of Prog. Division**		
	The citizen of the town faced acute water shortage, especially during dry or lean periods annually. After completion of the project State people will be benefited. After due scrutiny, PD recommends the proposal for consideration in IMC.		

27/10/21

(Dated Signature & Name of Under Secretary concerned)

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Annexure

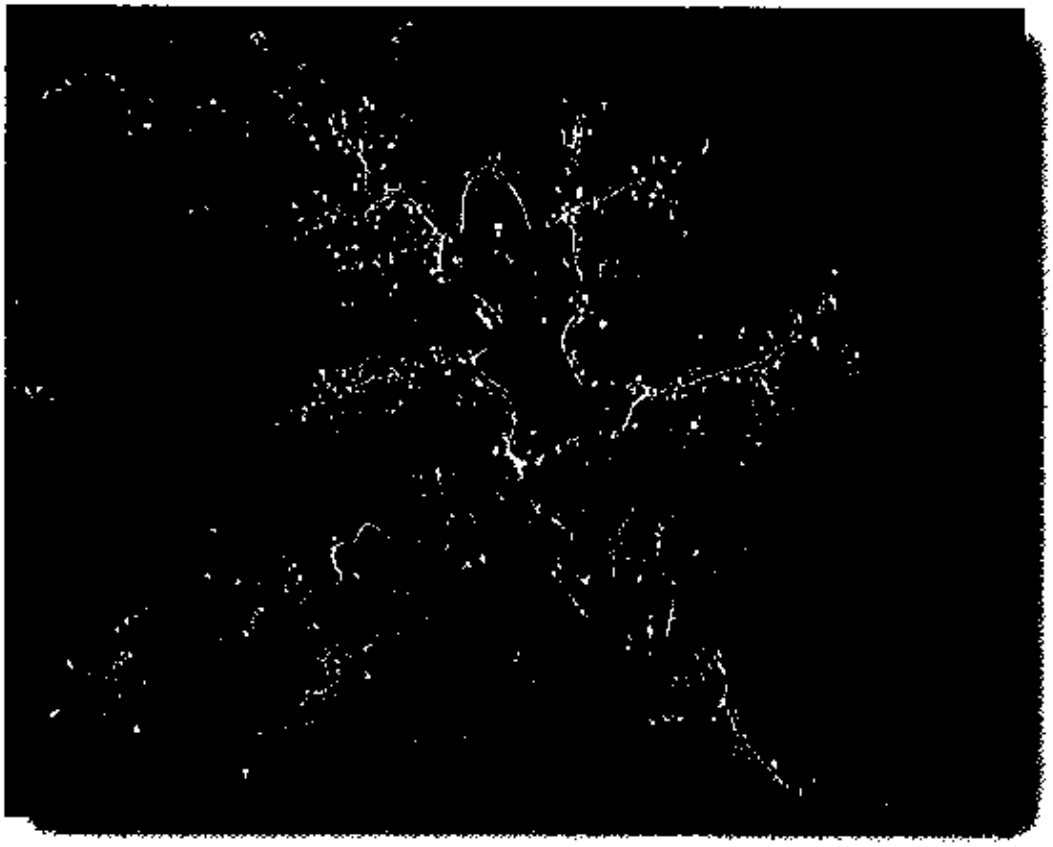
Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD/Technical Wing	Commens in brief	resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Niti Aayog			
2	Ministry of Jal Shakti			
3	Min. of Housing and Urban Affairs			
4	Min. of Rural Development			
5	IFD, MDoNER			
6	Technical Wing, MDoNER	Observation of TW, MDONER: The total amount of different components has beenmentioned in the Concept Note. The provision of Contingecies @ 3% has been taken in the concept note.	Yet to be received	

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CONCEPT PAPER FOR AUGMENTATION OF N.VANLAIPHAI WATER SUPPLY SCHEME (RAWLEIHLAWNCHHUAH PUMPING)



AMOUNT : Rs. 20,50,00,000.00
(Rupees Twenty Crore Fifty Lakhs) only

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NON-DUPLICATION CERTIFICATE

This is to certify that the Project "Augmentation of N.Vanlaiphai Water Supply Scheme" has not been sanctioned/ taken up/ proposed to be taken up for funding under any other scheme of the State or the Central Government or the North Eastern Council (NEC) or any other funding agencies.

Engineer-in-Chief,PHED
Mizoram : Aizawl

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3	Justification for Public/ Government Intervention in the Sector	1 to 2
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3	Availability of Land and Location Details	3 to 8
4	Statutory Clearances Required	9
5	Components Details and Component Wise Costing	10 to 13
6	Timeline/Scheduled Time for Completion	14
7	Economic Impact/ Expected Outcomes of the Project	15 to 16
8	Risks (Calculated risks involved with the project)	17
9	Capacity for Implementation of the Project	17
10	Sustainability of the Project (After Completion)	17 to 20

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A.OVERVIEW OF THE SECTOR IN THE ECONOMY

1. Sectoral Overview : Water Supply Sector

2.Contribution of the sector in the State Economy : Increased standard of living through providing adequate quantity of water and revenue generation by collecting water tariffs.

3. Justification for Public/ Government Intervention in the Sector: North Vanlaiphai is the 18th notified/census town in Serchhip District in the Indian State of Mizoram. It is located between latitude 23.1334990°N and longitude 93.058189°E. The population as per 2011 census is 3602 and it is 175 km away from Aizawl, the capital of Mizoram. It is situated at 1380 m – 1550 m above mean sea level and has habitation area of 8 km^2. The town receives heavy rainfall during monsoon (June-Sept) and dry in winter period and summer period (Oct-May). Average annual rainfall is 2200 mm.

The underground strata are sedimentary rock and because of small confined aquifer the availability of ground water is meagre. Therefore, ground water stored in the hill slopes emanates in the form of springs which are being used as a source of water.

N.Vanlaiphai is the biggest habitation along the central part of Mizoram bordering Myanmar. And it is important trade center and Govt center and population increases rapidly in this town. At present, N.Vanlaiphai town maybe the only town in Mizoram which do not have proper water supply as per CPHEEO norms and lacks proper water revenue collection in Mizoram due to the present water supply level being way below the norms.

The PHE Department has provided gravity piped water supply from two small stream sources i.e Varhva Lui and Kawrpui Lui which were commissioned in the year 1986. There has not been any augmentation or new schemes for 30 years. These small streams have depleted year by year due to deforestation, increase in population etc. The water supply problem of the town is very acute as the availability of water from existing sources is very limited i.e actual discharge from the two sources during February, 2017 is 63,000 lit/day for 4287 people as on today which is insufficient as per drinking water norms.

Because of this, there is considerable shortage in the per capita water availability. There are only 39 nos. of public points from which water is sparingly distributed through rubber pipes once a week. This has created tension among the consumers regarding the quantity of water they receive. The quantity of supply is approximately 300 lit per week per family. Due to this, water supply by private truck is a good business. People spend around15 to 20 %of their hard earned income for purchasing water.

The habitants of this town faced acute water shortage, especially during dry or lean periods annually. The existing water supply level i.e. 11 lpcd is inclusive of the yield of few numbers of IVSS (Tuikhur) from which the inhabitants used to collect water. The existing water supply system of the town has been augmented during 2018-19 under State fund by constructing 3 numbers of rcc tank having 150,000 litres capacity each and by replacing 30 years old by 40 mm dia new GI pipe for a length of 4148 rm and 1903 rm by using old pipes. The Distribution Network System is more than 30 years old (commissioned in the year 1986 for 300 household) and even though some portion were replaced as above, new network is required for 15.56 km of length.

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Since the habitation is situated at high elevation, there is no dependable perennial river which could be tapped by gravity. Therefore, the main sources of water supply in the area are village spring sources and non-perennial and non-dependable streams. Because of this, there is extreme shortage of safe water availability in the region.

This scarcity of water has been all along affecting the life of the people of the above town to such extents that water borne diseases are quite prevalent. Poor sanitation, low level of personal hygiene, general health and socio-economic condition of the people is in a dire state. Also that school going children and female adults are spending almost all their working hours throughout the year in collecting water from the few spring sources available, which are haphazardly located on the outskirts of N. Vanlaiphai town. Hence not a single family could afford 'quality time', or leisure is non-existent.

Therefore, this scheme has been proposed under the guidance of Chief Engineer Zone-I in planning and completion so that economic condition, health, education, family bonding, social life and standard of living of the people of the region as a whole may be substantially upgraded and favourably improved.

Ultimate objective is to allow PHE Deptt to achieve continuous (24/7) pressurized water supply to all its consumers including the poor. The project is designed to cover 100% population having diverse socio-economic and demographic structure.

With an aim of increasing drinking water availability to the town and improving service level, PHE Deptt has planned a comprehensive water supply project. The Project focuses on- (i) Reducing non-revenue water by leakage management and commercial losses through identification and regularization of illegal connections, metering and improvement in billing and collection systems; (ii) Refurbishment and expansion of transmission and distribution network (iii) reforms to address revenue improvement, expenditure rationalization (water and energy audit), customer relations and redressal systems. To achieve these objectives, PHED has planned this project.

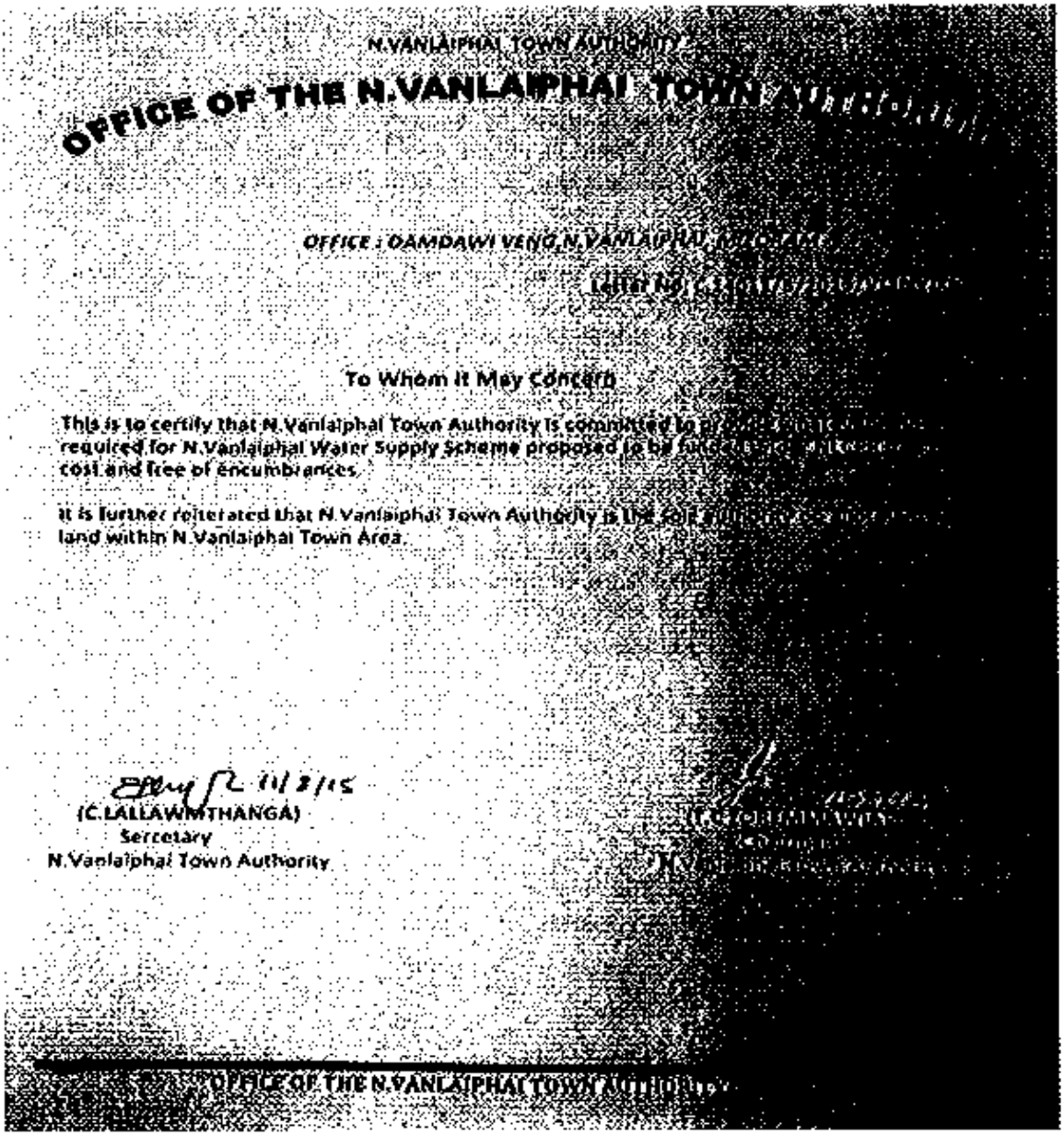
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B. SALIENT FEATURES OF THE PROJECT

1. Name of the Project: Augmentation of N.Vanlaiphai Water Supply Scheme (Rawleihlawnchhuah Pumping)

2. Total Estimated Amount: Rs. 20,50,00,000.00 (Rupees Twenty Crore Fifty Lakhs Only)

3. Availability of land and location details:



N.VANLAIPHAI TOWN AUTHORITY

OFFICE OF THE N.VANLAIPHAI TOWN

OFFICE : DAMDAWI VENG,N.VANLAIPHAI,

To Whom it May Concern

This is to certify that N.Vanlaiphai Town Authority is committed to p
required for N.Vanlaiphai Water Supply Scheme proposed to be
cost and free of encumbrances.

It is further reiterated that N.Vanlaiphai Town Authority is the
land within N.Vanlaiphai Town Area.

(C.LALLAWMTHANGA)
Secretary
N.Vanlaiphai Town Authority

OFFICE OF THE N.VANLAIPHAI TOWN

3

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CERTIFICATE

N.Vanlaiphai Village Council-in kan khaw tui lakna min tih changtlun sak tur hi kan lawm hle a. A existing infrastructure hi a hlutin a chhe tawh hle a.Heti anga PHE Deptt in Rawlui chhuah pumping scheme min bualpui hi kan lawm hle a ni.

22/2/19
(C.LALLAWMTHANGA)
Secretary, VC
N.Vanlaiphai,
Village Council Court

22/2/19
(TC ZOREMMAWIA)
President, VC
N.Vanlaiphai,
Village Council
Serchhip District

Junior Engineer, PHED,
E.Lungdar WATSAN Sub-Division,
E Lungdar.

Sub-Divisional Officer, PHED,
E Lungdar WATSAN Sub-Division,
E Lungdar.

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NO OBJECTION CERTIFICATE (NOC)

Chhirbi ram (Rowlcilawn)-a PHE Department-in tui pump siam hna an thawh turah hian ka ram chhûng an mamawhnaah harsatna ka siam lovang

(H. ROHLIRA)
N. Vanlaiphai

(RAMHERLIANA SAILO)
N. Vanlaiphai

(H. VANPARLAWMA)
N. Vanlaiphai

(LALTAWNI)
N. Vanlaiphai

(K. LIANDAWLA)
N. Vanlaiphai

(SATINHELA)
N. Vanlaiphai

(MALSAWMDAWNGKIMA)
N. Vanlaiphai

Hriatpuitute :

(K. LALBIAKRUALA)
President,
Rahsi Veng Branch YMA,
N. Vanlaiphai

(RK. SINGH)
Junior Engineer,
PHE Deptt.,
N. Vanlaiphai

(JB. LALINREMMAWIA)
Chairman,
Chhirbi Zâu Association,
N. Vanlaiphai

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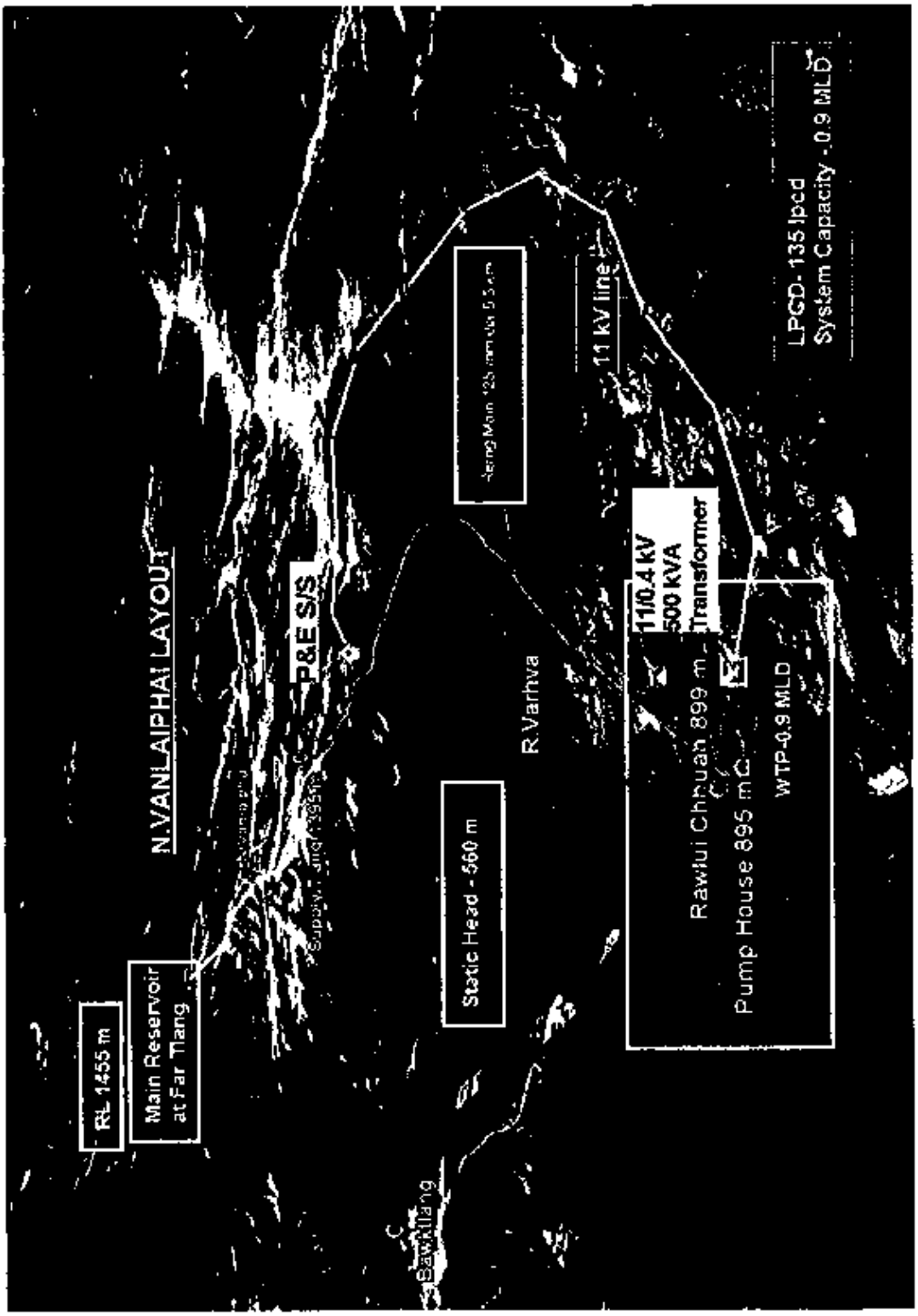
Location Details:

North Vanlaiphai is the 18th notified/census town in Serchhip District in the Indian State of Mizoram. It is located between latitude 23.1334990°N and longitude 93.058189°E. The population as per 2011 census is 3602 and it is 175 km away from Aizawl, the capital of Mizoram. It is situated at 1380 m – 1550 m above mean sea level and has habitation area of 8 km^2. The town receives heavy rainfall during monsoon (June-Sept) and dry in winter period and summer period (Oct-May). Average annual rainfall is 2200 mm

Dam at Rawleihlawnchhuah	: 23.151189°, 93.05862°
Proposed pumphouse and WTP Site	: 23.152581°, 93.056207°
N.Vanlaiphai town	: 23.133499°, 93.058189°
Proposed Main Reservoir	: 23.122622°, 93.070360°
Existing Reservoirs	: 23.125446°, 93.065752°
	: 23.130048°, 93.064156°
	: 23.134687°, 93.059270°
Proposed Service Reservoirs	: 23.134687°, 93.059270°

6

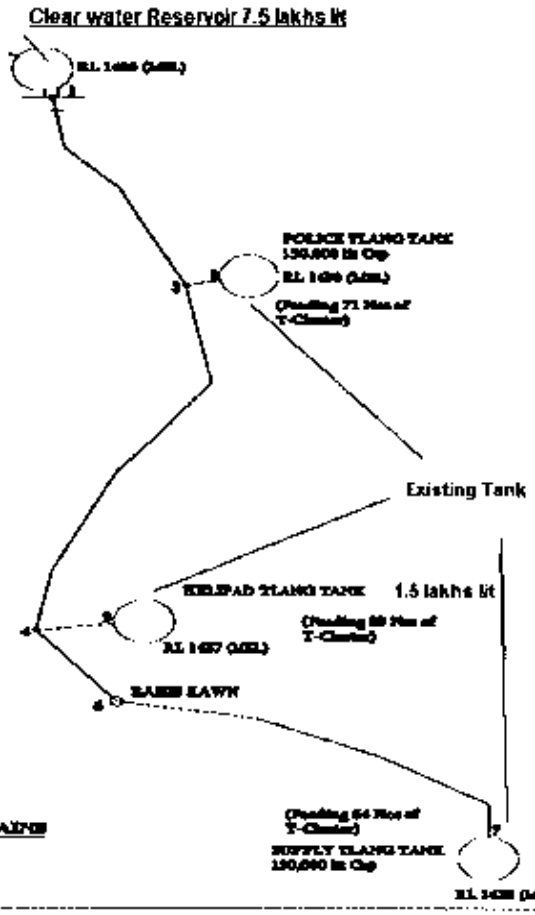
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FEEDING LAYOUT :



SL.No	NODES	PIPE SIZE OF (in)	PIPE LENGTH (Km)
1	1 to 2	150 mm dia	800
2	2 to 3	100 mm dia	90
3	2 to 4	150 mm dia	1060
4	4 to 5	150 mm dia	505
5	4 to 6	100 mm dia	420
6	6 to 7	100 mm dia	360

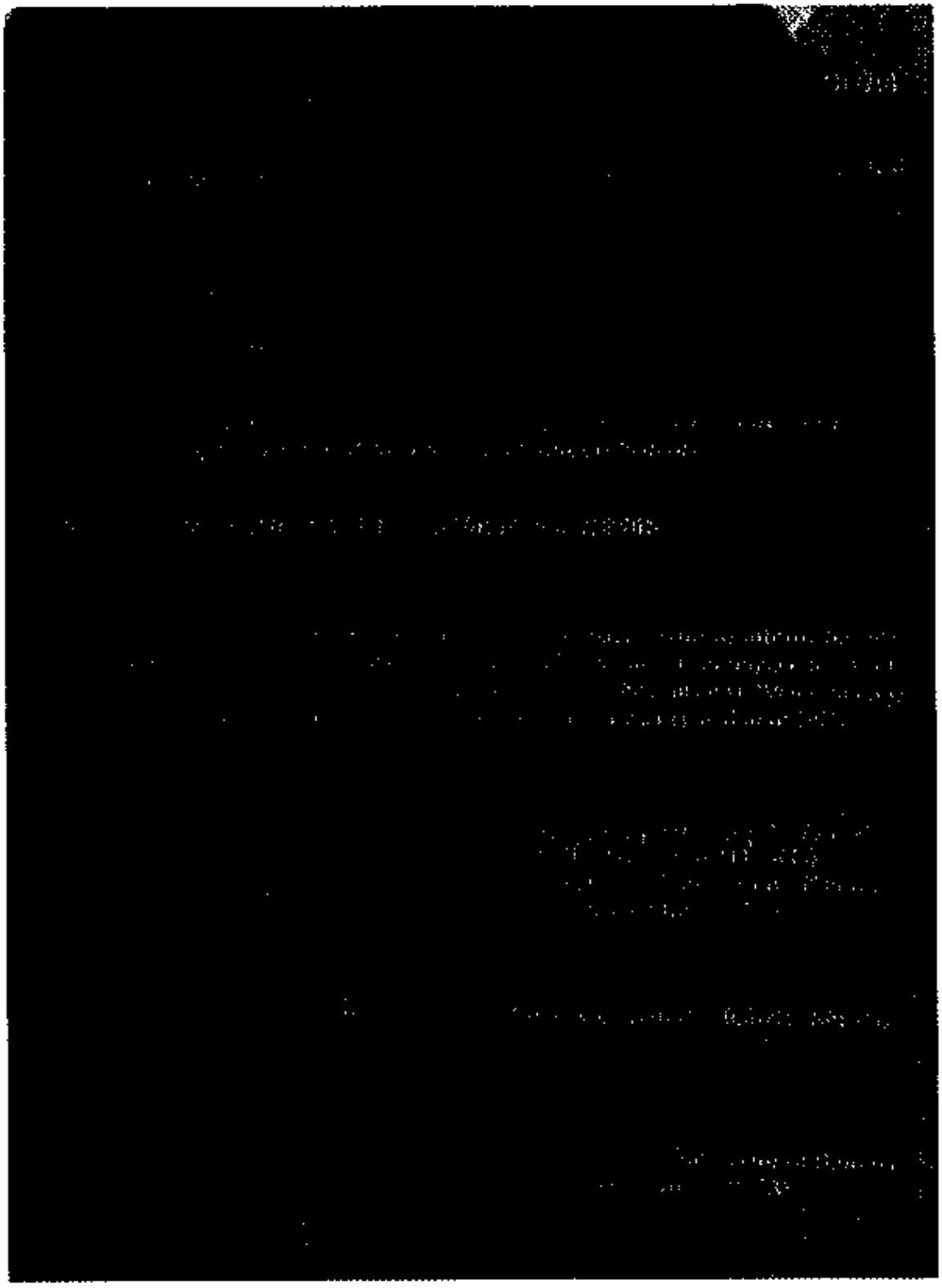
1	TOTAL	150 mm dia	2465 Rm
2	TOTAL	100 mm dia	450 Rm

GRAVITY FEEDING MAINS

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4. Statutory Clearances Required:



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5. Components Details and Component Wise Costing :

Proposed Schemes Components:

a) Construction of RCC Weir across River Varhva to raise the level of water in the river.
b) Construction of Dam to store the water at Rawleihlawnchhuah and further raise the water level so that raw water can be tapped by Gravity
c) Tapping of water from the Dam by Gravity system by using pipes of 125 mm dia and length 700 Rm
d) Construction of Water Treatment Plant 0.90MLD capacity.
   i)Aerator with Parshall flume
   ii) Flash mixer
   iii) Sedimentation cum coagulation tank
   iv) Filter house (2 No's of filter bed)
   v) Clear Water Sump 100,000 lit
   vi) Chemical house
   vii) Backwash tank
e) Clear Water Pump House with 2 No's of pump (1 No. as stanby) of discharge 45cum/hr at total head of 640 m with electric motor 200 kw with 5 ton HOT crane with suction and delivery arrangement complete.
d) Rising Main 125 mm dia 5.50 km H.Pincluding all appurtenances like AV,NRV, S/V, D/V, Anchor block and support pillar.
e) Approach road 5.0km : (3.0 km widening and GSB, 2.0 km new road construction)
f) Feeding main of total length 3115 Rm
g) Distribution network of length 15,556 Rm with T-Cluster 280 Nos
h) Power supply from Maicham Sub-Station to pump house at Rawleihlawnchhuah(11 kV line, 500 kVA, 11/0.415 kV transformer)
i) Security Fencing for WTP, Pump House and main reservoir.
j) Site preparation for WTP and Pump House Site.
k) Buildings- Duty room at Pump House Site, Control room and Main Reservoir
l) Laboratory equipment.
m) Restoration of PWD road.
n) Retaining wall for WTP and Approach road.
o) Carriage of Pipe Materials from Aizawl.
p) Pumps and Machineries.
q) Awareness generation and capacity building of GP/ VWSC.
r) Source sustainability measures.
s) Safe disposal of waste water at WTP.
t) Jungle Clearance and footpath (Rising main and Feeding Main)

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The project shall include the following:

a. **RCC Weir with impervious apron :**

Construction of rcc weir having catchment area of 9.5 sq.km across intake site at Rawleihlawnchhuah (Varhva River) for increasing the head water and the catchment area is good from sanitary point of view. Construction consists of :

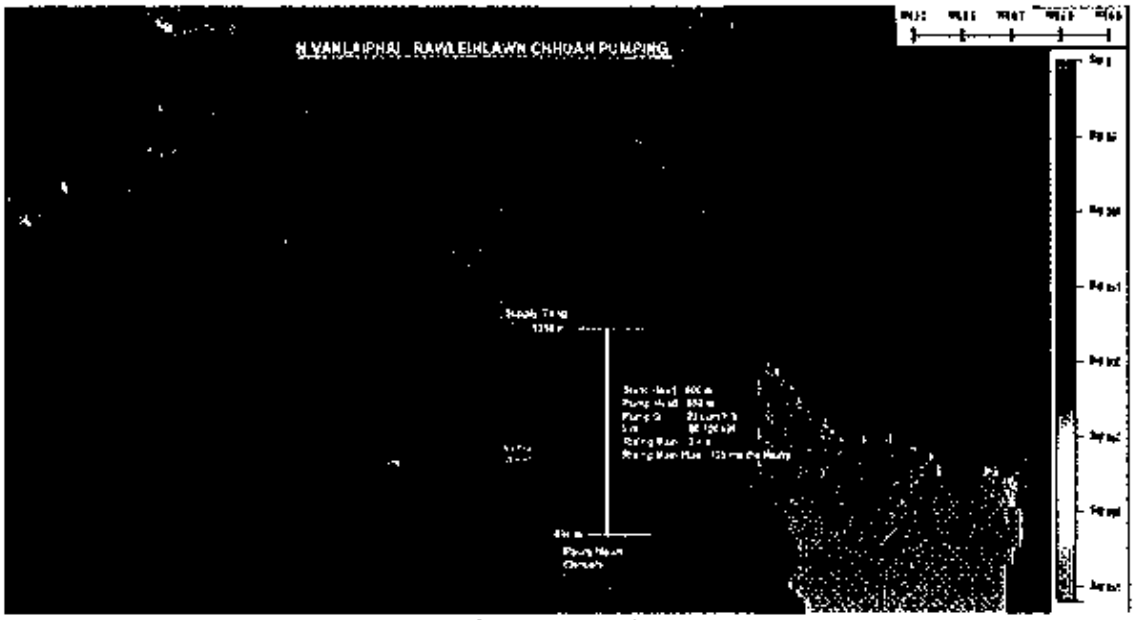
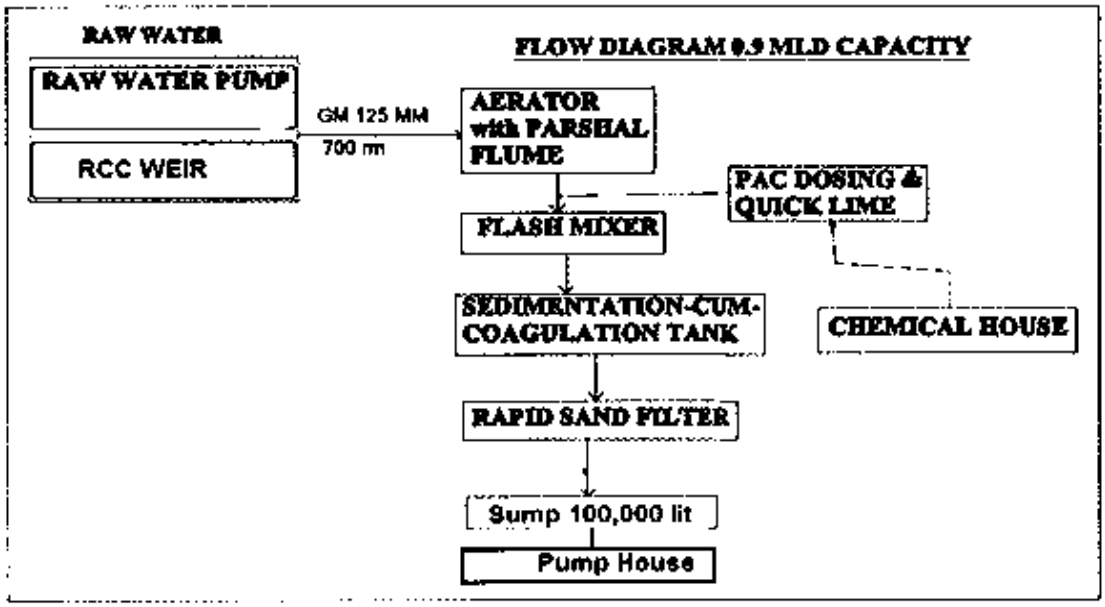


Fig . Propsed Dam Catchment Area

b. **Water Treatment Plant :**



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Water Treatment Plant : 0.90 MLD Capacity		
1) Aerator with Parshall Flumes	No	1
2) Flash Mixer	No	1
3) Sedimentation-cum-Coagulation Tank	No	1
4) Rapid Sand Filter House - 2 Filter Bed (1w + 1s)	No	1
Chemical House :	No.	1
Clear Water Sump	lit	100000
Back Wash Tank without independent staging complete with all backwash pipe, valves etc	lit	60000

c) **Rising Mains :**The length of rising main is 5500 Rm and it shall be able to withstand 110 kg/cm^2 of pump pressure (125 mm Ø G.I (HP HD) was selected) with all required appurtenances like air valves, NRV, sluice valves, drain valves and RCC block etc.

d)Power Supply shall be from Grid Power only : Power Supply 11kV line of length 5.2 km Zaizawh Tlang to Pump House with 500 kVA, 11/0.4 kV Sub-Station at Pump House

e)Construction of clear water reservoir – 7.5 lakhs lit capacity at Far Tlang:

The water shall be stored to this reservoir. From this reservoir it shall be feeded to the distribution reservoir through 100 to 150 mm Ø G.I (M) feeding line.

f)Construction of Distribution Reservoir : two reservoirs of 1.5 lakh lit capacity each will be constructed and the existing tank will be utilized

g)Distribution System :
Distribution system comprises of different pipe sizes and length to cover all the town area: (15,556 Rm ~ 15.56 km)

The public will receive water from the system by house service connection through T-Cluster of 218 nos (40 mm dia T-cluster)

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Aug of N.VANLAIPHAI WSS (Rawleihlawnchhuah Pumping)		
ABSTRACT OF COST		
Sl. No	**Items of Work**	**Amount (Rs.)**
1	**Civil Works :**	
1	Intake cum water storage	1,03,44,000.00
2	Const of RCC Weir, Raw Water Mains, Gravity Mains	67,96,000.00
3	Rising Main - 125 mm dia, 5.5 km	2,26,73,745.00
4	Water Treatment Plant : 0.90 MLD Capacity	1,18,77,260.00
5	Chemical House	59,39,040.00
6	Approach Roads	50,97,117.00
7	Buildings :	1,54,65,130.00
8	Security Fencing	29,31,360.00
9	Un-accounted-for Water	22,73,300.00
10	Feeding Main	74,29,164.00
11	Distribution System :	4,08,52,570.00
12	Indemnification of Roads :	48,48,148.00
13	Carriage of materials	21,36,444.00
14	Laboratory Equipment & all fitting and setting	15,23,000.00
15	Side drain for WTP	19,66,600.00
	Sub-Total-I :	**14,21,62,878.00**
2	**Pumps & Machineries :**	
1	Pumping System , Communication, Disinfection etc	3,46,27,620.00
2	SITC of HOT Crane 5 MT	32,85,000.00
3	Power Supply	1,89,45,000.00
	Sub-Total-II :	**5,68,57,620.00**
	Total :	**19,90,10,498.00**
	Add 3% for Contingencies	59,70,314.94
	Grand-Total :	20,49,80,812.94
	Say :	**20,50,00,000.00**
(Rupees twenty crores fifty lakhs) only.		

Engineer-in-Chief,PHED
Mizoram : Aizawl

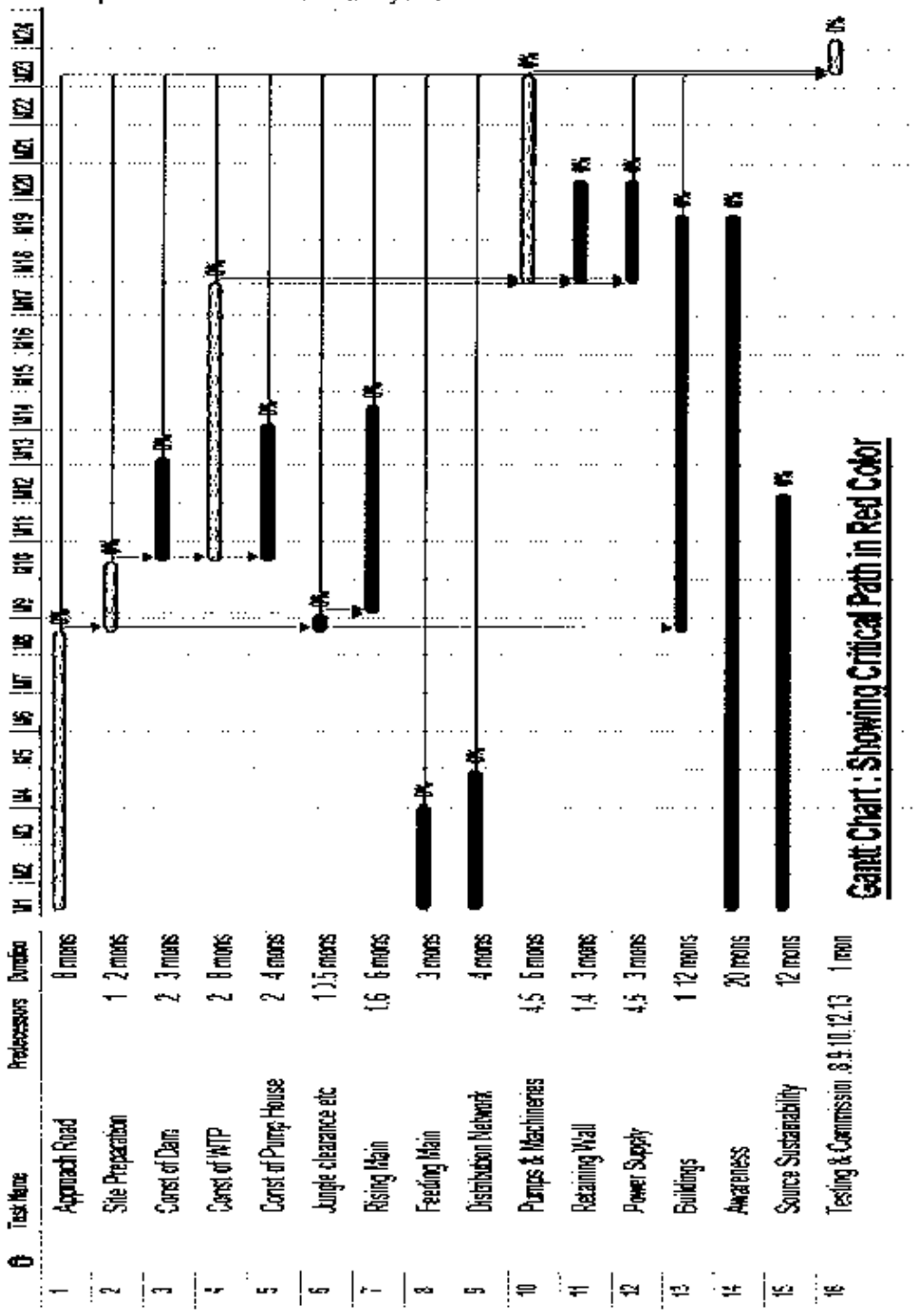
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6. Timeline/Schedule for Completion:

Schedule of completion for each item of the scheme is prepared using MS Project as follows:

Completion time : 24 months/ 2 years



	Task Name	Predecessors	Duration
1	Approach Road		8 mons
2	Site Preparation	1	2 mons
3	Const of Dams	2	3 mons
4	Const of WTP	2	8 mons
5	Const of Pump House	2	4 mons
6	Jungle clearance etc	1	1.5 mons
7	Rising Main	1,6	6 mons
8	Feeding Main		3 mons
9	Distribution Network		4 mons
10	Pumps & Machineries	4,5	6 mons
11	Retaining Wall	1,4	3 mons
12	Power Supply	4,5	3 mons
13	Buildings	1	12 mons
14	Awareness		20 mons
15	Source Sustainability		12 mons
16	Testing & Commission	8,9,10,12,13	1 mon

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7. Economic impact/ Expected outcome of the project:

The project of **Augmentation of N.Vanlaiphai Water Supply Scheme (Rawleihlawn Pumping)** when completed will be benefited by the people of N.Vanlaiphai Town and there will be no adverse impact in the implementation of the project. Benefit from societal perspective and their impact on citizens may be highlighted as follows :

(a) **Public Health:** The quality of life of the people of N.Vanlaiphai Town will be greatly improved when safe and sufficient quantity of water is available. Health aspect will be one of the main object of the water supply, the people of these three villages will be promoted in the sanitation as well as living standard.

(b) **Easier Access :**After implementing the proposed project treated water will be made available to the publics either through house water connection or public points, new water points will be made and will cover larger area, that will make lower initial cost for house water connection, and new public causing easier access for economic backward classes.

(c) **Increase in coverage :** After completed the project, it will cover 100% of the three villages area with sufficient water, and will impart development in the life of the people.

(d) **Service Quality :** This project when complete, will result availability of sufficient quantity of water as well as efficiency with respect to the supply of treated water to the consumers. However, a few more temporary staff may be needed to engage to take care of the supplied water and regular monitoring of the quality.

(e) **Increase in income for Economic backward classes:** When completed this project, sufficient quantity of water will be easily available and every household will need less time in collection of water, thereby dedicating more time for other issues. This will directly increase the income of poorer people. Purchase of water at a higher rate will be eradicated which will in turn increase the standard economy.

(f) **Continuity of Supply :** When completed this project, it is expected possibility of 24 x 7 hours supply of water to the public.

(g) **Availability of safe drinking water :** The project when successfully completed, water borne diseases will be eradicated and the beneficiaries will have easy access to safe and potable water.

(h) **Saving of time:** At present, the villagers have been wasted a lot of their valuable time in survival for water. But when this project is implemented much more time will be saved for other useful purposes and will lead to them a behavior change in the utilization of time.

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(i) **Availability of Employment:** Although the proposed project is not an Employment generating scheme, it will require a number of workers during the execution of the project work. Thus this will generate employment for a number of local persons, though it is not a long period of execution.

Adverse Impact :

i) Earthwork in excavation of trenches during the execution of the project shall not disturb the surrounding areas.

ii) The proposed operational areas are more or less like a barren land. No fauna & flora shall be disturbed. As such there shall be no adverse affect environmentally.

(j) **Direct and Indirect Benefits** : At present existing N.Vanlaiphai Water Supply Scheme is maintained by PHE Department and there is only 4 House water connection. After completion of this project, 100% House Water Connection will be introduced to generate the Govt. Revenue.

On the other hand, if this project is successfully completed, safe and sufficient water will be supplied and improve the community health and quality of life, larger area will be covered by T-Cluster or Public points which will make poorer section easier to access water, and will impart them dedicating more time for other issues which can bring to them directly increase in income, and saving of expenditure for medical treatment. So these may be 'Indirect benefits' of the project.

(k) **Social Impact prior to the Project and After the Project :** As water is a vital substance in the life of human being and other diversities, people have been facing severe water scrutiny. Every household has been wasting too much time for fetching of water and lost their valuable time so much resulting in lesser time for other issues. Hospital, Hotel and other Community Centre as well as Govt. Offices etc. are not receiving sufficient supply of water resulting in in-operative of OT, Laboratory, maintenance of sanitation and disinfection etc.

Until and unless the **Augmentation of N.Vanlaiphai Water Supply Scheme (Rawleihlawn Pumping)** is achieved, such situations will remain unchanged.

There would not be any serious impact on environment during construction as well as the whole operational life of the Project. There would be no substantial increased submergence in and around intake weir, no deforestation because of laying of pipelines, no substantial air pollution from mechanical or electrical machineries and devices, and there is no need of rehabilitation or resettlement during the execution of the project or throughout the operational life of the project. Land would be available free of cost for establishing all the infrastructures of the project

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8. Risks

Contractual Risk :The chance of contractor not fulfilling the terms of a contract andperform poorly. Mitigation – performance quarantee, security deposit, penalty.

Environmental Risk :There is negligible environmental risk. Intake works will improvewater environment.

Revenue Risk :Non payment of water charge more than 3 months, unwilling to pay watercharges. Mitigation – issue of red notice by VWSC to pay the charges to the consumer and after that disconnection of FHTC till full payment was made.

9. Capacity for implementation of the project: The Public Health Engineering Department (PHED) has an existing Sub-Division Office at E.Lungdar and the required fields staffs having deep knowledge in operation and maintenance of water supply system. Therefore, the PHED will have all the responsibilities in running, operation and maintenance of this water supply system including collection of water tariff as per Mizoram Water Supply (Control) Rules,2006,thus, it will increase Govt. Revenue.

10. Sustainability of the project (after completion):

Year-wise statements of sustainability analysis for annual Operation & Maintenance cost for the next 20 yrs i.e. upto 2042 has been presented on the basis of Annual O & M charges, Annual Revenue collection out of the quantity of water supply from the tariff, and after completion of the project till the year 2042. The analysis for O&M charges revenue collection & statement for self-sustainability for O&M are worked out as:

CALCULATION FOR O&M CHARGES

1. **Electrical charges : per year**

Considering ultimate pumping hour as 20 hrs by electric motor 90-120Kw

= 100 x 20 = 2000 units / day

Total units consumed per year = 730,000 units

Charges @ Rs. 4.5/unit/year = Rs. 32,85,000.00

For the first 5 years 50% of Rs. 32,85,000.00 = Rs. 16,42,500.00

For the next 5-10 years 75% of Rs. 32,85,000.00 = Rs. 24,63,750.00

From 10 yrs – life period 100% of Rs. 32,85,000.00 = Rs. 32,85,000.00

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YEARLY EXPENDITURE Rs. in lakhs

Sl.No	Energy	Salaries	Chemicals	Repairs	POL	OE	Total(Rs.in lakhs)
1	47.83	6.64	1	0.1	2	0.2	57.77
2	48.70	6.64	1	0.2	3.5	0.25	60.29
3	50.86	6.64	1	0.2	3.5	0.25	62.45
4	51.71	6.64	1.6	3	4.2	0.4	67.55
5	52.38	6.64	1.6	3	4.2	0.4	68.22
6	53.98	6.84	1.6	3.85	4.8	0.41	71.48
7	54.86	6.84	1.6	3.85	4.8	0.41	72.36
8	56.15	6.84	3.42	3.9	5	0.43	75.74
9	56.87	6.84	3.42	3.9	5.3	0.43	76.76
10	58.56	6.84	3.42	3.9	5.3	0.45	78.47
11	59.15	7.24	3.6	5.7	5.5	0.45	81.64
12	60.17	7.24	3.6	5.7	5.5	0.48	82.69
13	60.64	7.24	4.2	5.8	5.7	0.48	84.06
14	61.46	7.24	4.8	5.8	5.7	0.51	85.51
15	62.14	7.24	4.8	5.9	5.9	0.51	86.49
16	62.72	7.9	5.13	5.9	5.9	0.52	88.07
17	64.03	7.9	5.52	6	6.1	0.52	90.07
18	64.94	7.9	5.82	6	6.1	0.55	91.31
19	65.00	7.9	5.9	7	6.3	0.58	92.68
20	65.70	7.9	7	7.1	6.3	0.58	94.58

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REVENUE COLLECTION STATEMENT

Year	Water Distributed in lits/day	Population Served	Rate/Kl	Revenue collected in Rs.in lakhs
1	5,56,875	4125	15	**30.49**
2	5,67,000	4200	20	**41.39**
3	5,92,245	4,387	25	**54.04**
4	6,02,100	4,460	30	**65.93**
5	6,09,930	4,518	35	**77.92**
6	6,28,560	4,656	40	**91.77**
7	6,38,820	4,732	40.75	**95.02**
8	6,53,805	4,843	40.75	**97.25**
9	6,62,175	4,905	40.75	**98.49**
10	6,81,885	5,051	40.75	**101.42**
11	6,88,770	5,102	50.2	**126.20**
12	7,00,650	5,190	50.2	**128.38**
13	7,06,050	5,230	50.2	**129.37**
14	7,15,635	5,301	50.2	**131.13**
15	7,23,600	5,360	50.2	**132.59**
16	7,30,350	5,410	68.78	**183.35**
17	7,45,605	5,523	68.78	**187.18**
18	7,56,135	5,601	68.78	**189.83**
19	7,69,500	5,700	68.78	**193.18**
20	7,78,005	5,763	68.78	**195.32**

Initially HWC expected : 780 nos as per prevailing PHED Rate

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Statement of Self Sustainability for annual operation & maintenance cost for 20 years.

Rupees in lakh

Year	O & M Cost	Revenue Collection	Year Wise Profit /Loss
1	57.77	30.49	-27.28
2	60.29	41.39	-18.89
3	62.45	54.04	-8.41
4	67.55	65.93	-1.62
5	68.22	77.92	9.70
6	71.48	91.77	20.29
7	72.36	95.02	22.65
8	75.74	97.25	21.51
9	76.76	98.49	21.73
10	78.47	101.42	22.95
11	81.64	126.20	44.56
12	82.69	128.38	45.69
13	84.06	129.37	45.31
14	85.51	131.13	45.62
15	86.49	132.59	46.09
16	88.07	183.35	95.28
17	90.07	187.18	97.11
18	91.31	189.83	98.52
19	92.68	193.18	100.50
20	94.58	195.32	100.74

From fifth year, this Scheme will start to profit

Man days utilized for collecting water:

The local labour rate is Rs. 350/day and atleast on eperson from every household has to spend time in collecting water throughout the dry season i.e. approximately 150 days in a year (November – March). So, the amount of labour wasted per year is

= 780 households x Rs. 350/day x 150 days

= Rs. 3,93,75,000.00 / year

Water purchased from water sellers :

The local rate of water from private sellers is Rs. 2000 per 4000 litres of water by truck. On an average, a family orders about 5 trips per year during dry season. So,the amount of hard earned income spent for buying water is:

= 780 households x 5 trips x Rs.2000/trip

= Rs. 78,00,000.00 / year

Engineer-in-Chief,PHED
Mizoram : Aizawl

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Project Wise Information
Augmentation of N.Vanlaiphai Water Supply Scheme (Rawleihlawnchhuah Pumping)

Project Linkages with Promotion of Tourism (not exceeding 100 words):

The project is not specifically linked to the promotion of tourism rather it is focused on providing one of the basic needs of the public i.e. drinking water supply

Project Description / Summary (not exceeding 200 words):

North Vanlaiphai is the 18th notified/census town in Serchhip District in the Indian State of Mizoram. The population as per 2011 census is 3602. At present, N.Vanlaiphai town maybe the most affected town in Mizoram with respect to shortage of water supply.

The PHE Department has provided gravity piped water supply from two small stream sources i.e Varhva Lui and Kawrpui Lui which were commissioned in the year 1986. There has not been any augmentation or new schemes for 30 years. These small streams have depleted year by year due to deforestation, increase in population etc. The present availability of water from existing sources is 11 litres per capita per day during dry period inclusive of the yield of few numbers of Watering holes (Tuikhur).

This project aims to improve the water supply level to 135 lpcd for the design population of 5763 souls. It shall include the following components:

a. **RCC Weir with Impervious apron :**

Construction of rcc weir having catchment area of 9.5 sq.km across intake site at Rawleihlawnchhuah (Varhva River) for increasing the head water and the catchment area is good from sanitary point of view. Construction consists of:

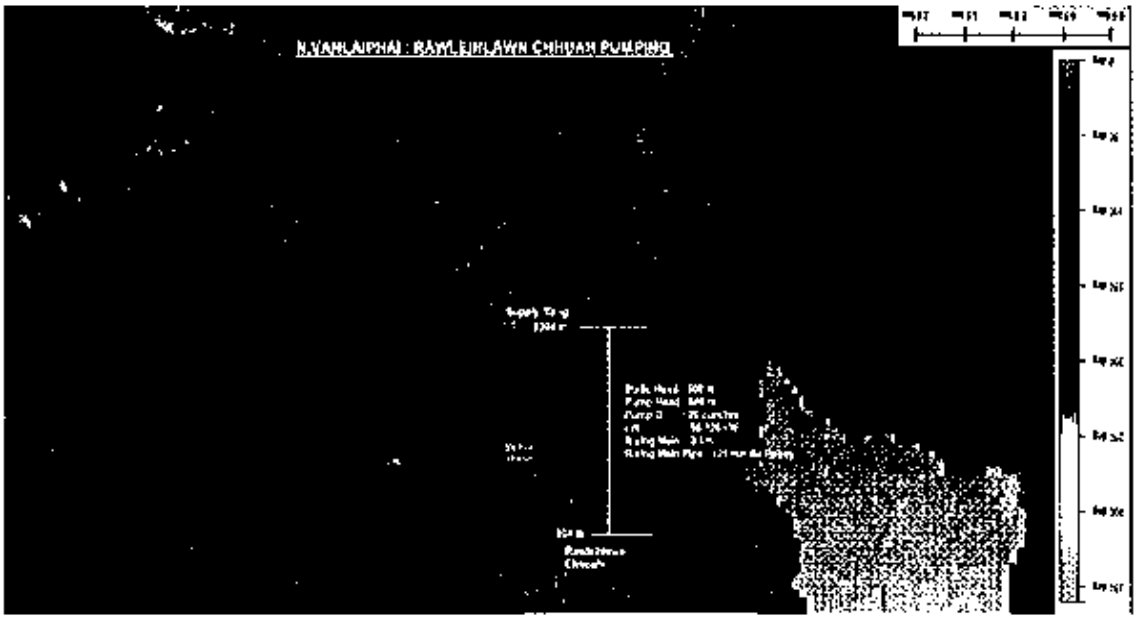
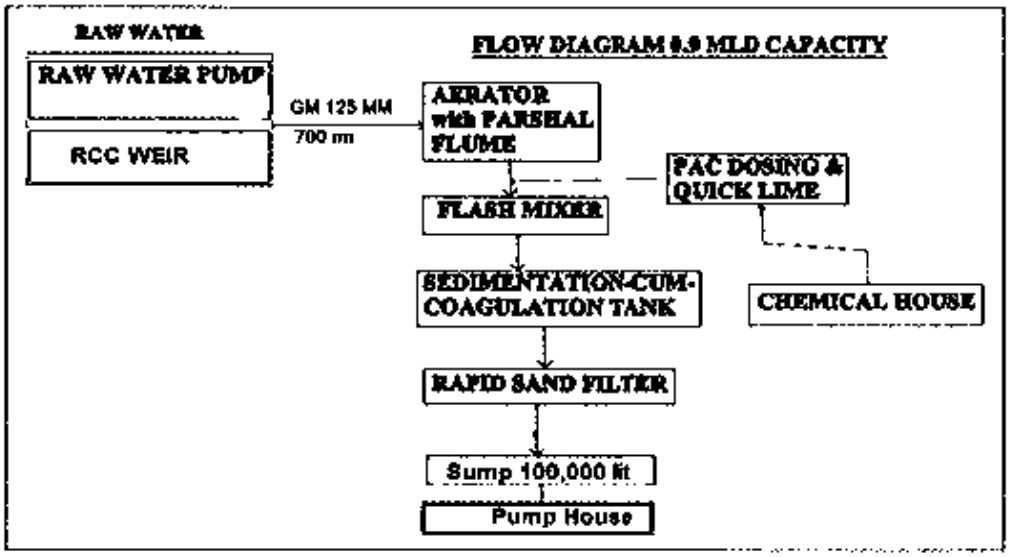


Fig . Propsed Dam Catchment Area

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b. **Water Treatment Plant :**



Water Treatment Plant : 0.90 MLD Capacity		
1) Aerator with Parshall Flumes	No	1
2) Flash Mixer	No	1
3) Sedimentation-cum-Coagulation Tank	No	1
4) Rapid Sand Filter House - 2 Filter Bed (1w + 1s)	No	1
Chemical House :	No.	1
Clear Water Sump	lit	100000
Back Wash Tank without independent staging complete with all backwash pipe, valves etc	lit	60000

c. **Rising Mains :** The length of rising main is 5500 Rm and it shall be able to withstand 110 kg/cm^2 of pump pressure (125 mm Ø G.I (HP HD) was selected) with all required appurtenances like air valves, NRV, sluice valves, drain valves and RCC block etc.

d. **Power Supply shall be from Grid Power only :** Power Supply 11kV line of length 5.2 km Zaizawh Tlang to Pump House with 500 kVA, 11/0.4 kV Sub-Station at Pump House.

e. **Construction of clear water reservoir – 7.5 lakhs lit capacity at Far Tlang:** The water shall be stored to this reservoir. From this reservoir it shall be feeded to the distribution reservoir through 100 to 150 mm Ø G.I (M) feeding line.

f. **Construction of Distribution Reservoir:** Two reservoirs of 1.5 lakh lit capacity each will be constructed and the existing tank will be utilized.

g. **Distribution System :** Distribution system comprises of different pipe sizes and length to cover all the town area: (15,556 Rm – 15.56 km). The public will receive water from the system by house service connection through T-Cluster of 218 nos (40 mm dia T-cluster)

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#	Additional Information	Comments / Inputs of State Government
1)	Whether lying in backward areas	The project lies in a Scheduled Tribe dominated Area.
2)	Whether independent / new project or part of any other project of any other Ministry / SG / Agency, whether proposed, sanctioned or ongoing	Independent project
3)	If the project involves O&M, staff components, post construction management, recurring expenses etc for its running/maintenance etc e.g.(e.g. running of a Hostel building), has the SG agreed to take care of these activities.	Project involves O&M, staff component and recurring expenses for maintenance. State Government has agreed to take care of these expenses and activities.
4)	Is the project in question supported/coverable under any other scheme of Central or State Government	Drinking Water Supply Projects have been extensively implemented through various Central Govt. programmes like ARWSP, NRDWP, JJM etc. However, these programmes are applicable only to rural villages/ areas. However, there are currently no dedicated programmes of the Central or State Govt. for coverage of Water supply to Urban Towns. Since, the project area is an urban area/town funding is hereby sought from NESIDS.
5)	Whether the cost indicated in the concept paper of the project is based on latest SoR	Yes
6)	Whether the project is at single location with detailed lat-long information	The project has various components spread out in and around N. Vanlaiphai as follows: Dam at Rawleihlawnchhuah : 23.151189°, 93.05862° Proposed pumphouse and WTP Site : 23.152581°, 93.056207° N.Vanlaiphai town : 23.133499°, 93.058189° Proposed Main Reservoir : 23.122622°, 93.070360° Existing Reservoirs : 23.125446°, 93.065752° : 23.130048°, 93.064156° : 23.134687°, 93.059270° Proposed Service Reservoirs : 23.134687°, 93.059270°

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7)	Quantified Output of the project	
8)	Outcome of the project (population targeted to be benefitted on completion)	On successful completion of the project, drinking water @ 135 litres per day will be available for 5763 souls at N.Vanlaiphai.

Year	O & M Cost	Revenue Collection	Year Wise Profit /Loss
1	57.77	30.49	-27.28
2	60.29	41.39	-18.89
3	62.45	54.04	-8.41
4	67.55	65.93	-1.62
5	68.22	77.92	9.70
6	71.48	91.77	20.29
7	72.36	95.02	22.65
8	75.74	97.25	21.51
9	76.76	98.49	21.73
10	78.47	101.42	22.95
11	81.64	126.20	44.56
12	82.69	128.38	45.69
13	84.06	129.37	45.31
14	85.51	131.13	45.62
15	86.49	132.59	46.09
16	88.07	183.35	95.28
17	90.07	187.18	97.11
18	91.31	189.83	98.52
19	92.68	193.18	100.50
20	94.58	195.32	100.74

Engineer-in-Chief,PHED
Mizoram : Aizawl

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 18.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Mizoram under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 13.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Augumentation of N. Vanlaiphali Water Supply Scheme (Rawlleihlawnchhuah Pumping)	20.50	The total amount of different components has been mentioned in the Concept Note. The provision of Contingecies @ 3% has been taken in the concept note. Programe Div. may like to see.
2.	Augumentation of Greater Mamit Water Supply Scheme-Part II	40.00	The total amount of different components has been mentioned in the Concept Note. The provision of Contingecies @ 3% has been taken in the concept note. Programe Div. may like to see.

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To
Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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DFA/115909 (Attachment : Annexure B_1636135449731_636.pdf)

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ANNEXURE-AF

31st meeting of IMC/NESIDS Committeescheduled on 29.10.2021 I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)		
Agenda Item No.:		**State: Mizoram**
Name of Project: Augmentation of Greater Mamit Water Supply Scheme Part-II.		
Project Description/Summary (not exceeding 200 words): The State has 26 notified towns and Mamit is amongst them. The town population is increasing gradually and after the town (Mamit) became district headquarter, population has increased more rapidly after 2007. Mamit District is one of the 105 Aspirational Districts in India. The town water supply is only once in a week. The distribution network is old and shows leakage of water and covers only few areas. Hence, there is a need for increasing water storage capacity, filtering, new distribution system, construction of new main lines and disinfection.		
Stage 1: Retention/Selection of the Project		
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.4000.00 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Water Supply infrastructure
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Tourism potential: No	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New Project
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	The O&M of the Scheme will be taken up by the PHE Department and the revenue collected will be able to cover up the O&M Expenditure.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	Breakup of Major Components of the projects as per abstract of cost
SL No.	Items of Work	Amount (Rs.)
	PART A. CLEAR WATER:	
	Items of Works :	

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1	Clear Water Pump House		75,60,000.00
2	Clear Water Rising Main		6,84,09,320.00
3	Clear Water Pumping Machineries		5,75,10,000.00
4	HOT Crane		37,40,000.00
5	Electrochlorination System		67,00,000.00
6	District Laboratory		10,00,000.00
7	Buildings		62,00,000.00
8	Power Supply		1,82,02,000.00
9	Restoration of Damaged Pavement		1,77,97,300.00
10	Security Fencing		4,40,584.00
11	Renovation/Improvement of existing Water Supply.		3,28,73,796.00
	TOTAL		**22,04,33,000.00**
	PART B. DISTRIBUTION SYSTEM:		
1	Feeding Mains		3,22,77,207.50
2	Distribution Main to Zonal Reservoir		66,76,868.00
3	Main Reservoir		43,30,000.00
4	Zonal Reservoirs		1,90,14,094.00
5	Distribution System		7,89,54,267.12
6	T-Clusters		33,79,671.00
7	Construction of Valve Chamber		8,40,000.00
8	Procurement of Valves		37,20,392.00
9	Restoration of Damaged Roads		1,87,24,500.00
	Total :		**16,79,16,999.62**
	Grand-Total : (A+B)		**38,83,49,999.62**
	Add 3% for Contingencies		**11650499.99**
	Grand-Total :		40,00,00,499.61
	Say :		**40,00,00,000.00**
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**		Nil
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**		No
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		20.05.2021
1.9	**Original**		
1.10	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**		Not Available

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3	**Normative allocation of SG and related details**	**Normative Allocation is Rs.125.04 Cr. Total Sanctioned + Seclected: Rs.36.04 Balance Normative Allocation: Rs.89.00 cr.**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Niti Aayog	13-05-2021	No comments received till date
	Ministry of Jal Shakti	13-05-2021	No comments received till date
	Min. of Housing and Urban Affairs	13-05-2021	No comments received till date
	Min. of Rural Development	13-05-2021	No comments received till date
	IFD, MDoNER	13-05-2021	No comments received till date
	Technical Wing, MDoNER	13-05-2021	18-05-2021
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-**		
7	**Important observations/comments of Prog. Division**		
	PProject is related to Social Infrastructure. The objective of the proposal is providing adequate water supply to the people of Mamit town as there is a need for increasing water storage capacity, filtering, new distribution line. After due scrutiny, PD recommends the proposal for consideration in IMC.		

27/10/21

(Dated Signature & Name of Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD/Technical Wing	Commens in brief	resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Niti Aayog			
2	Ministry of Jal Shakti			
3	Min. of Housing and Urban Affairs			
4	Min. of Rural Development			
5	IFD, MDoNER			
6	Technical Wing, MDoNER	Observation of TW, MDoNER: The total amount of different components has beenmentioned in the Concept Note. The provision of Contingecies @ 3% has been taken in the concept note.	Yet to be received	

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Project Wise Information
Augmentation of Mamit Water Supply Scheme Part-II

Project Linkages with Promotion of Tourism (not exceeding 100 words):

The project is not specifically linked to the promotion of tourism rather it is focused on providing one of the basic needs of the public i.e. drinking water supply

Project Description / Summary (not exceeding 200 words):

Mamit is the 8th District and Mamit town is the Headquarter. The census population of the town from 1971-2011 is tabulated below:

Census Year	1971	1981	1991	2001	2011	Present	Remarks
Population	2,921	2,523	3,546	5,110	7,884	10,806	Population likely to increase at higher rate till the next 15/20 years.

As per Government of India norms, per capita water supply in urban area must be 135 lpcd. Therefore, the requirement of water in the year 2020 would be 2.18 MLD and 2040 would be 2.97 MLD. The town water supply is only once in a week. The distribution network is old and shows leakage of water and covers only few areas. Hence, there is a need for increasing water storage capacity, filtering, new distribution system, construction of new main lines and disinfection.

The PHE Department had commissioned Greater Mamit Water Supply Scheme in 2007 by pumping Kurung Lui and Lahmun Lui. The Scheme was designed to provide drinking water at 70 litres per capita per day for 8800 souls. Water Supply Schemes are normally designed for 30 years, however, due to rapid growth in population, after just 14 years, the present population of Mamit is already 10806 souls, which is more than the design population of the existing scheme. This has resulted in acute deficiencies of Water Supply both in quantity and infrastructure.

This project aims to improve the water supply level to 135 lpcd at Mamit for the design population of 20,000 souls. It shall include the following components:

1. **PART-A (CLEAR WATER, RENOVATION/IMPROVEMENT OF EXISTING SCHEME & DISTRIBUTION SYSTEM):**
    a. **Clear Water Pump house** will be constructed near the treatment plant near the location of existing Pump house.
    b. **Clear Water Rising main** will be provided and laid with 219.1 (O.D) ERW Pipe for a length of 5km along with thrust block, anchor block and necessary valves etc.
    c. **Clear Water Pumping Machineries** will be provided and installed with a capacity of 119m^3/h and a soft starter for the control unit.
    d. **HOT Crane** will be provided and installed inside the pump house.

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e. **Electrochlorination system** of Seachlor Mac 500 will be installed for disinfection of water.
f. **District Laboratory Equipment** will be provided with materials as mentioned in the annexure.
g. **Buildings** will be constructed for Control Room and site office/ bill counter.
h. **Power Supply Dedicated:** Extention of existing 11kv power supply line of 1.5km and 2 nos of 1000kva transformer for Clear Water & 200KVA Transformer 1No. for Raw Water Pump will be provided.
i. **Restoration of Damaged road** is also included due to laying of pipes.
j. **Security fencing** will be constructed to protect water supply structures.
k. **Renovation /Improvement Of Existing Water Supply Scheme:**
    i. **Approach road:** Construction of approach road to intake at Kurung Lui and Lahmun Lui to tap water demand during rainy season to limit the use of Raw Water Pump. Thus saving energy cost, etc.PCC Pavement along the Raw water Pump House/TUT Intake Weir needs to be constructed for all weather Road ans will be constructed.
    ii. **Gravity Main:** GI(M) pipes of 80mm dia of 3500Rm and 2500Rm will be laid to tap water demand especially during rainy season in twin lines to supplement the existing gravity lines.
    iii. **Clear Water & Raw Pump** with required capacities will also be provided as spares for the existing Pump.
    iv. **Diesel Generator Set** of 380KVA & 200KVA capacity will be provided as power backup for the existing pump (Clear water & Raw water).
    v. **Retaining Wall:** As the existing Treatment plant and Pump house with proposed additional pump house site needs to be widened and protected from Landslide, Retaining wall will be constructed.

2. **PART-B DISTRIBUTION SYSTEM:**
    a. **Feeding main** of different sizes of GI pipes as designed will pe provided to feed water from the Main Reservoir to Zonal Reservoirs located at different locations.
    b. **Distribution Main** from Luangpawl Reservoir to Jawahar Navodaya Vidyalaya and 4th I.R and from Hospital Reservoir to College campus.
    c. **Main Reservoir** of 2 lakh litres capacity will be constructed at MizoVeng.
    d. **Zonal Reservoirs** will also be constructed at Luangpawl, Dinthar Tlang , IR and Hospital Complex and also at Govt. Mamit College.
    e. **Distribution System** of GI(M) pipes will be laid as distribution pipeline from various Reservoirs. Valves required are also included.
    f. **T-Clusters** will be constructed to provide House Water Connection.
    g. **Valve Chambers** will be constructed along the distribution pipelines for controlling water flow as well as for protection.
    h. **Procurement of valves** of different size is included to fit at the valve chambers for controlling water flow.

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i. **Restoration of Damaged roads** is included to restore the damaged roads due to laying of Pipelines.

#	Additional Information	Comments / Inputs of State Government
1)	Whether lying in backward areas	The project lies in a Scheduled Tribe dominated Area.
2)	Whether independent / new project or part of any other project of any other Ministry / SG / Agency, whether proposed, sanctioned or ongoing	Independent project
3)	If the project involves O&M, staff components, post construction management, recurring expenses etc for its running/maintenance etc e.g.(e.g. running of a Hostel building), has the SG agreed to take care of these activities.	Project involves O&M, staff component and recurring expenses for maintenance. State Government has agreed to take care of these expenses and activities.
4)	Is the project in question supported/coverable under any other scheme of Central or State Government	Drinking Water Supply Projects have been extensively implemented through various Central Govt. programmes like ARWSP, NRDWP, JJM etc. However, these programmes are applicable only to rural villages/ areas. However, there are currently no dedicated programmes of the Central or State Govt. for coverage of Water supply to Urban Towns. Since, the project area is an urban area/town funding is hereby sought from NESIDS.
5)	Whether the cost indicated in the concept paper of the project is based on latest SoR	Yes
6)	Whether the project is at single location with detailed lat-long information	The project has various components spread out in and around Mamit Town as follows: - Mamit Town: 23.929413N, 92.490944E - Intake/ Weir: 23.918007N, 92.526159E - Water Treatment Plant: 23.924762N, 92.520452E - OH Reservoir #1: 23.903045N, 92.492507E - OH Reservoir #2: 23.896874N, 92.495967E - OH Reservoir #3: 23.952453N, 92.490231E

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7)	Quantified Output of the project	
8)	Outcome of the project (population targeted to be benefitted on completion)	On successful completion of the project, drinking water @ 135 litres per day will be available for 20,000 souls at Mamit.

Year	O & M Cost	Revenue Collection	Year Wise Profit /Loss
1	231.06	121.96	-109.11
2	241.14	165.56	-75.58
3	249.81	216.17	-33.64
4	270.20	263.72	-6.48
5	272.89	311.67	38.79
6	285.93	367.08	81.15
7	289.45	380.07	90.61
8	302.96	388.98	86.02
9	307.04	393.96	86.92
10	313.89	405.69	91.80
11	326.57	504.81	178.24
12	330.77	513.52	182.75
13	336.23	517.48	181.25
14	342.04	524.50	182.46
15	345.98	530.34	184.36
16	352.30	733.41	381.11
17	360.30	748.73	388.43
18	365.23	759.30	394.07
19	370.72	772.72	402.00
20	378.32	781.28	402.96

Engineer-in-Chief,PHED
Mizoram : Aizawl

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Concept Note

AUGMENTATION OF GREATER MAMIT WATER SUPPLY SCHEME PART – II

Estimated Amount: Rs. 40.00 Crore

PUBLIC HEALTH ENGINEERING DEPARTMENT

[May 2021]

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NON-DUPLICATION CERTIFICATE

This is to certify that the Project "Augmentation of Mamit Water Supply Scheme Part-II" has not been sanctioned/ taken up/ proposed to be taken up for funding under any other scheme of the State or the Central Government or the North Eastern Council (NEC) or any other funding agencies.

Engineer-in-Chief,PHED
Mizoram : Aizawl

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A.OVERVIEW OF THE SECTOR IN THE ECONOMY

1. **Sectoral Overview:** Water Supply Sector
2. **Contribution of the Sector in the State Economy:** Increased standard of living through providing adequate quantity of water and revenue generation by collecting water bills.

Justification for Public/Government Intervention in the Sector: Mizoram is a small state and is divided into 11(eleven) districts (Aizawl, Champhai, Kolasib, Lawngtlai, Lunglei, Mamit, Saiha, Serchhip, Saitual, Khawzawl and Hnahthial Districts) and Mamit is the 8th District and Mamit town is the Headquarter. The total 2011 census population of the state is only 10,97,206 with literacy rate of 91.33%, which is the 3rd place in the country. The state has urban population of 5,71,771 and rural population of 5,25,435. The state of Mizoram is connected from outside by Air (Lengpui Airport, Aizawl), Train (Bairabi Rail Station) and National Highway (NH-54). The state is spread in between Bangladesh (on the west) and Myanmar (on the east-south) and it borders Assam, Manipur and Tripura states in the north-west.

The State has 26 notified towns and Mamit is amongst them. The town population increases gradually since 1981 census and after the town (Mamit) became district headquarter, population increases more rapidly years after 2007.It is worth to mention that Mamit District is one of the 105 Aspirational District in India. The census population of the town from 1971-2011 is tabulated below:

Census Year	1971	1981	1991	2001	2011	Present (2020)	Remark
Population	2,921	2,523	3,546	5,110	7,884	10,806	Population likely to increase at higher rate till the next 15/20 years.

3. As per Government of India norms, per capita water supply in urban area must be 135 lpcd. Therefore, the requirement of water in the year 2020 would be 2.18 MLD and 2040 would be 2.97 MLD. The town water supply is only once in a week. The distribution network is old and shows leakage of water and covers only few areas. Hence, there is a need for increasing water storage capacity, filtering, new distribution system, construction of new main lines and disinfection.

B. SALIENT FEATURES OF THE PROJECT

1. Name of the Project: **Augmentation of Greater Mamit Water Supply Scheme – 2.97 MLD, Part-II (Clear water and Distribution System)**
2. Total Estimated Amount: Rs. 400,000,000.00/-
3. Availability of Land and Location Details: Free of Cost and Project components on Google Map is as shown (Annexure – I
4. Statutory Clearances Required: Not required .
5. Components Details are as below and Component Wise Costing (General Abstract) is Attached (Annexure – II)

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1. **PART-A (CLEAR WATER, RENOVATION/IMPROVEMENT OF EXISTING SCHEME & DISTRIBUTION SYSTEM):**

A. CLEAR WATER: The works proposed to be included in Part II of Augmentation of Mamit WSS are mentioned below:

a. **Clear Water Pump house** will be constructed near the treatment plant near the location of existing Pump house.
b. **Clear Water Rising main** will be provided and laid with 219.1 (O.D) ERW Pipe for a length of 5km along with thrust block, anchor block and necessary valves etc.
c. **Clear Water Pumping Machineries** will be provided and installed with a capacity of 119m^3/h and a soft starter for the control unit.
d. **HOT Crane** will be provided and installed inside the pump house.
e. **Electrochlorination system** of Seachlor Mac 500 will be installed for disinfection of water.
f. **District Laboratory Equipment** will be provided with materials as mentioned in the annexure.
g. **Buildings** will be constructed for Control Room and site office/ bill counter.
h. **Power Supply Dedicated**: Extention of existing 11kv power supply line of 1.5km and 2 nos of 1000kva transformer for Clear Water & 200KVA Transformer 1No. for Raw Water Pump will be provided.
i. **Restoration of Damaged road** is also included due to laying of pipes.
j. **Security fencing** will be constructed to protect water supply structures.

k. **RENOVATION /IMPROVEMENT OF EXISTING WATER SUPPLY SCHEME**

a) **Approach road:** Construction of approach road to intake at Kurung Lui and Lahmun Lui to tap water demand during rainy season to limit the use of Raw Water Pump. Thus saving energy cost, etc.PCC Pavement along the Raw water Pump House/TUT Intake Weir needs to be constructed for all weather Road ans will be constructed.

b) **Gravity Main:** GI(M) pipes of 80mm dia of 3500Rm and 2500Rm will be laid to tap water demand especially during rainy season in twin lines to supplement the existing gravity lines.

c. **Clear Water & Raw Pump** with required capacities will also be provided as spares for the existing Pump.
a. **Diesel Generator Set** of 380KVA & 200KVA capacity will be provided as power backup for the existing pump (Clear water & Raw water).
b. **Retaining Wall:** As the existing Treatment plant and Pump house with proposed additional pump house site needs to be widened and protected from Landslide, Retaining wall will be constructed.

PART-B DISTRIBUTION SYSTEM:

a. **Feeding main** of different sizes of GI pipes as designed will pe provided to feed water from the Main Reservoir to Zonal Reservoirs located at different locations.
b. **Distribution Main** from Luangpawl Reservoir to Jawahar Navodaya Vidyalaya and 4th I.R and from Hospital Reservoir to College campus.
c. **Main Reservoir** of 2 lakh litres capacity will be constructed at MizoVeng.

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d. Zonal Reservoirs will also be constructed at Luangpawl, Dinthar Tlang , IR and Hospital Complex and also at Govt. Mamit College.

e. Distribution System of GI(M) pipes will be laid as distribution pipeline from various Reservoirs. Valves required are also included.

f. T-Clusters will be constructed to provide House Water Connection.

g. Valve Chambers will be constructed along the distribution pipelines for controlling water flow as well as for protection.

h. Procurement of valves of different size is included to fit at the valve chambers for controlling water flow.

i. Restoration of Damaged roads is included to restore the damaged roads due to laying of Pipelines.

6. Timeline/ Scheduled time for Completion: The time framed for completion is 36 months from the date of commencement. (Annexure -III)

7. Economic Impact / Expected Outcome of the Project: The Project is a Social Infrastructure Project, the economical feasibility of which cannot be accurately determined. However, water crisis and its ill effects being faced by the people of the town need no exaggeration. Due to insufficient water supply, it is not at all possible to maintain sanitized and clean living environment. Besides, people have to collect whatever available water within easy reach which are very likely to be contaminated due to which the people frequently suffer from Water and Sanitation related diseases. The need for spending sizable amount of money for medical treatment needs no more emphasis which puts many poor families in dire pathetic situations. This brief emphasis of the ill effects of water scarcity on the social life cannot be explained in terms of monetary value but clearly justifies the need of providing adequate drinking water within easy reach. For Long term sustainability of the proposed Project, the State Government shall be responsible for its O & M activities. However, water charges will continue to be levied from the consumers as per the existing Water Tariff Rules of the State Government. Private House Water Connections will continue to be provided to the affording families and the consumption of water shall be metered and billed.

The Estimated Cost of the Project is Rs. **400,000,000.00** and the project is expected to be completed within 36 months from the date of Commencement of the project. The required administrative and statutory clearances shall be obtained in due course of time. The project shall be implemented by the State PHED which has sufficient number of qualified and experienced Civil, Electrical and Mechanical Engineers for such type of specialized work. The selected sites for the construction are free from encumbrances. It may be concluded that the Project is a Social Infrastructure Project and the economical feasibility of the project cannot be accurately determined. It may be mentioned that the ultimate objective of providing adequate water supply to the people of Mamit town, which shall result in better health for the people, improved standard of living and Water and Sanitation related diseases, definitely outweighs the anticipated expenditure to be incurred in the execution of the project.

8. Risks (calculated risk involved with the project):

PHE Department, Mizoram have acquired quite a Good Technical experience in implementation of High-Head Pumping Water Supply Systems as number of such Projects had already been implemented. However, possible risks cannot be ruled out and the following risks require serious considerations:

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a) Contractual Risk: The possibility of High contractual amount over the estimated cost is anticipated. However, due care shall be taken to arrive at accurate Quotations. Price escalation is also an important matter to be seriously considered. Many Projects could not be completed within the estimated amount. Further, in some Projects, sanctions had been obtained to a very much reduced cost from the estimated amount which creates serious problems during implementation of the project. Due care shall be taken to sanction the Projects in line with the Technical as well as Financial provisions of the DPR.

b) Project Management Risk: Efficient management of Project Implementation is an important criterion for successful completion of the Project. However, the state PHE Department is equipped with experienced Engineers who are capable of implementing this type of project. Project Management Risk shall therefore not be a threatening factor in the Project. However, management of the project shall be undertaken by involving Officials from Top level to Bottom level at every stage of project implementation.

c) Environmental Risk:

As stated earlier, the Project implementation will not create any major Environmental Hazard. Environmental Risk is therefore not a worrying factor.

d) Regulatory Risk:

The project is of Social Infrastructure in nature gaining Public interest. Regulatory Risk is therefore not anticipated to be a threatening problem.

e) Fund Flow Risk:

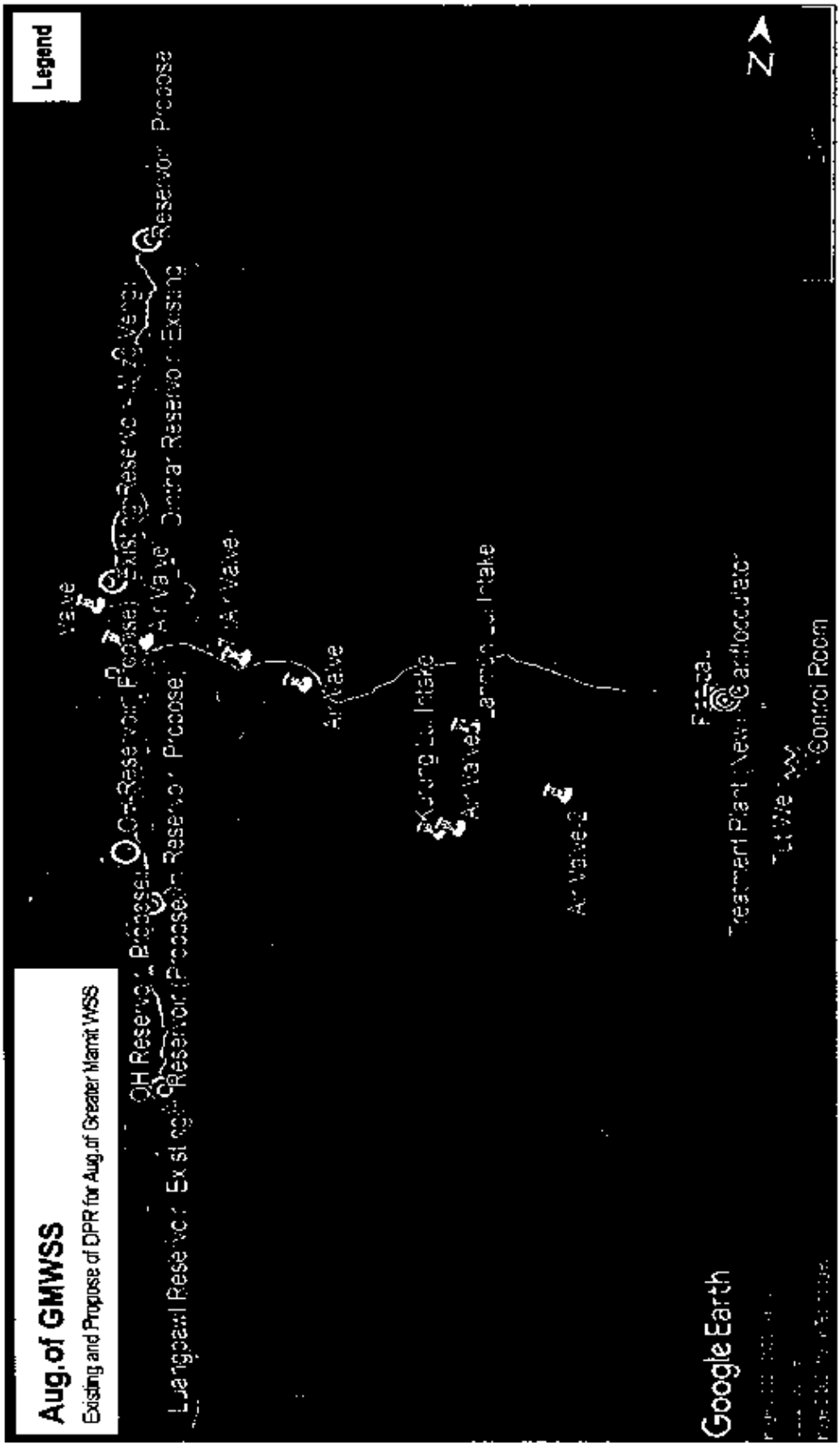
Smooth fund flow is the major factor for successful implementation of the Project. It shall therefore be ensured that regular and smooth fund flow is obtained for which requisite reports for claiming funds shall be submitted regularly and in time.

9. Capacity for implementation of the project: The Public Health Engineering Department having trained engineers in the field of Water Supply will take up implementation of the Project.
10. Sustainability of the project (after completion): The O&M of the Scheme will be taken up by the PHE Department and the revenue collected will be able to cover up the O&M Expenditure.

Engineer-in-Chief,PHED
Mizoram : Aizawl

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ANNEXURE I



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ANNEXURE II

GENERAL ABSTRACT OF COST FOR AUGMENTATION OF GREATER MAMIT WATER SUPPLY SCHEME PART-II- 2.97MLD (CLEAR WATER AND DISTRIBUTION SYSTEM)

PART A. CLEAR WATER:

Sl. No	Items of Works	Amount (Rs.)
1	*2*	*3*
1	Clear Water Pump House	7,560,000.00
2	Clear Water Rising Main	68,409,320.00
3	Clear Water Pumping Machineries	57,510,000.00
4	HOT Crane	3,740,000.00
5	Electrochlorination System	6,700,000.00
6	District Laboratory	1,000,000.00
7	Buildings	6,200,000.00
8	Power Supply	18,202,000.00
9	Restoration of Damaged Pavement Road	17,797,300.00
10	Security Fencing	440,584.00
11	Renovation/Improvement of existing Water Supply.	32,873,796.00
	TOTAL	**220,433,000.00**

PART B. DISTRIBUTION SYSTEM:

Sl. No	Items of Works	Amount (Rs.)
1	*2*	*3*
1	Feeding Mains	32,277,207.50
2	Distribution Main to Zonal Reservoir	6,676,868.00
3	Main Reservoir	4,330,000.00
4	Zonal Reservoirs	19,014,094.00
5	Distribution System	78,954,267.12
6	T-Clusters	3,379,671.00
7	Construction of Valve Chamber	840,000.00
8	Procurement of Valves	3,720,392.00
9	Restoration of Damaged Roads	18,724,500.00
	TOTAL	**167,916,999.62**
	GRAND TOTAL of A+B	**388,349,999.62**
	Add 3% Contingency	11,650,499.99
	TOTAL	**400,000,499.61**
	SAY	**400,000,000.00**

(Rupees forty crore) only.

Engineer-in-Chief,PHED
Mizoram : Aizawl

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ANNEXURE III

BAR CHART SHOWING PROPOSED SCHEDULED FOR IMPLEMENTATION OF Augmentation of Greater Mamit WSS PART-II

Sl.no	Description of Items	2021-2022				2022-2023			
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
1	PART -A Clear Water Pump house								
2	Clear Water Rising Main								
3	Clear Water Pumping Machineries								
4	HOT Crane								
5	Electro chlorination system								
6	District Laboratory								
7	Buildings								
8	Power Supply								
9	Restoration of Damaged Pavement Road								
10	Security Fencing								

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11	Renovation/Improvement of existing water supply											
	PART -B											
1	Feeding Mains											
2	Distribution Main to Zonal Reservoir											
3	Main Reservoir											
4	Zonal Reservoirs											
5	Distribution Systems											
6	T-Clusters											
7	Construction of Valve chamber											
8	Procurement of Valves											
9	Restoration of Damaged Roads											

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 18.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Mizoram under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 13.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Augumentation of N. Vanlaiphali Water Supply Scheme (Rawlleihlawnchhuah Pumping)	20.50	The total amount of different components has been mentioned in the Concept Note. The provision of Contingecies @ 3% has been taken in the concept note. Programe Div. may like to see.
2.	Augumentation of Greater Mamit Water Supply Scheme-Part II	40.00	The total amount of different components has been mentioned in the Concept Note. The provision of Contingecies @ 3% has been taken in the concept note. Programe Div. may like to see.

This issued with the approval of Superintending Engineer (TW).

18/5/21
(Parveen Kumar)
Executive Engineer (TW)

To
Shri N K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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ANNEXURE-AE

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Mizoram**

Name of Project: Construction of 2x10 MVA, 33/11 KV Sub-Station at Chite with Associated linking lines.

Project Description/Summary (not exceeding 200 words): Chite is located at eastern side of Aizawl City and is agricultural and industrial area. At present Aizawl City is fed from 33/11 kV Sub-Stations at Zuangtui, Mualpui, Durtlang, Luangmual, Tlangnuam, Chawnpui and Indoor S/S. Some sub-station are located in thickly populated area which results a problems in maintenance of sub-station incoming and outgoing feeders, extension in populated areas also results long 11kV distribution lines with a limited and unsafe space and more distribution losses as well. To overcome the above problems and also to provide more reliable power supply within Aizawl City at lesser distribution losses, construction of 2x10MVA, 33/11kV Sub-Station at Chite is proposed. This will also provide a reliable power for Chite Agricultural and Industrial area.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.1049.00.00 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Power infrastructure
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): No	
	Tourism potential: Yes With the constructing a new 33kV Sub-Station, there will be more reliable power supply for Chite and surrounding areas, thereby the chance of all round development activities including tourism aspect can be enhanced in this area.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New Project

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1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	Power & Electricity Department, Government of Mizoram has a good experience, staff and assets for implementation of the project
1.7	Broad Breakup of Major Components of the project Cost as per concept note	Breakup of Major Components of the projects as per Technical Note
a	Construction of Maternity Block including Gynae Block & OT Block	The cost for "Construction of 2x10MVA, 33/11kV Sub-Station at Chite with associated linking lines" is estimated at Rs 10.49 crore. No break-up cost estimated available with concept paper as submitted by SG.
1.7A	Out of above, SG's Contribution in the Project Cost, if any	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	
1.8	Date of receipt of proposal/concept note from State Government (SG)	
1.9	Original	
1.10	Revised (if any)	
2	Is the project in question supported/coverable under any other scheme of Central or State Government	
3	Normative allocation of SG and related details	Normative Allocation is Rs.125.04 Cr. Total Sanctioned + Seclected: Rs.36.04 Balance Normative Allocation: Rs.89.00 cr.
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:	
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments
	Niti Aayog	13.05.2021
	Ministry of Power	13.05.2021
	IFD, MDoNER	13.05.2021
	Technical Wing, MDoNER	13.05.2021
5	Whether proposal has been accompanied with the following documents	
	(a) Concept Note	Yes. Concept paper is at p...../c

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	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c
	(c) Approval of CS	Yes.
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**	
7	**Important observations/comments of Prog. Division**	
	Around 50000 population of Ramhlun, Ramthar, Chite, Falkland & Armed Veng of Aizawl City will be benefitted by the project. After due scrutiny, PD recommends the proposal for consideration in IMC.	

27/10/21

(Dated Signature & Name of
Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD /Technical	Commens in brief	resonse of SG/proposal submitting	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.06.2021 is as under:- (i) The details of the existing system, present maximum load, expected maximum load by 2025 and 2030 along with justification for construction of new 2x10 MVA, 33/11 sis at Chite Aizawl may be provided. (ii) Single line diagram for the proposed Substation showing incoming and outgoing feeders may also be provided. (iii) Detailed cost estimates along with the basis of cost estimates may be furnished. (iv) The details of present AT&C Losses and proposed reduction in these losses along with details of improvement in quality of power supply after carrying out the above works with cost benefit analysis may also be furnished.	Reply received from SG dated 26.08.2021 forwarded to MoP for final comments.	
2	Niti Aayog	Niti Aayog supported the project proposal based on CEA, technical vetting and State Government commitements to complete the project within 12 months.	Yet to be received	
3	IFD			
3	Tech. Wing	Observation of TW, MoDoNER is as under: SG has intimated total Project Cost of Rs.10.49 crore in the concept notes. The different components, required in the project and cost of the different components have been mentioned in concept notes. SG may be asked to send the Abstract of cost showing all components with cost alongwith basis of costing.	Yet to be received	

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CONCEPT NOTES

CONSTRUCTION OF 2x10MVA, 33/11kV SUB-STATION AT CHITE WITH ASSOCIATED LINKING LINES (Rs. 10.49 Crore)

A. OVERVIEW OF POWER SECTOR IN THE ECONOMY

1. Power Sector Overview

Power & Electricity Department was created in the year 1979 and with the vision and mission stated below:-

Vision: To attain and become the most trusted integrated Utility/Department through better Customer satisfaction, optimum utilization of energy and to fulfill the expectations of all stakeholders in a manner that is safe, ethical, healthy and environment friendly.

Mission: 1) To deliver dependable, reliable and quality power supply and services at affordable and competitive price for every section of the society in the State.
2) To set new benchmarks in Standard of Performance and governance with profitable growth.
3) To continuously improve the quality and reliability of service towards the consumers.
4) To offer goods and services and find solutions for the major stakeholders across the entire state.

2. Contribution of Power Sector in the State Economy

The Department is responsible for promoting, developing and maintenance of Generation, Transmission and Distribution of Power within the State. Power Sector is the main backbone entity for the holistic development of Mizoram.

3. Justification for Public/Government Intervention in the Power Sector

In 2018-19, Mizoram has consumes 387.76 MU of energy out of which only 40.09 MU was generated within the state and the other was imported from outside state at a cost of Rs 291.53 crore. Revenue collected from sale of energy was Rs 267.96 crore which means Rs 23.57 crore was lost/subsidised by the State. The AT&C Loss of the state is 22.43% which is above the acceptable level of Central Electricity Authority (CEA) i.e. 15%. So to achieve the AT&C Loss of 15% all-out efforts are taken to improve the transmission and distribution networks of the power sector in Mizoram.

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B. SALIENT FEATURES OF THE PROJECTS PROPOSAL

History & Background :

Chite is located at eastern side of Aizawl City and is agricultural and industrial area. At present Aizawl City is fed from 33/11 kV Sub-Stations at Zuangtui, Mualpui, Durtlang, Luangmual, Tlangnuam, Chawnpui and Indoor S/S. Some sub-station are located in thickly populated area which results a problems in maintenance of sub-station incoming and out going feeders, extension in populated areas also results long 11kV distribution lines with a limited and unsafe space and more distribution losses as well.

To overcome the above problems and also to provide more reliable power supply within Aizawl City at lesser distribution losses, Construction of 2x10MVA, 33/11kV Sub-Station at Chite is proposed. This will also provide a reliable power for Chite Agricultural and Industrial area.

Name of the Project :

"Construction of 2x10MVA, 33/11kV Sub-Station at Chite with associated linking lines"

Estimated Cost : Rs 10.49 Crore (Rupees ten crore forty nine lakh) only.

Availability of land and Location Details :

Land for 33kV Sub-Station at Chite is available

Chite : 23.42325N, 92.45139E

Statutory Clearance Required :

No Statutory Clearance is required since land for 33kV Sub-Station at Chite is available

Component Details and costing of the project :

The cost for "Construction of 2x10MVA, 33/11kV Sub-Station at Chite with associated linking lines" is estimated at **Rs 10.49 crore.**

Timeline/Schedule time for Completion :

The project will be completed within 3 years from the date of commencement subject to timely released of fund.

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Economic Impact/Expected Outcome of the Project :

1). After completion of this 33kV proposed Sub-Station, the eastern outskirts areas of Aizawl City can have reliable power supply.

2). There will be more power supply for industry, agricultural purposes which will uplift the economic life of the people.

3). AT&C Loss improvement

4). Increase in revenue collection

Risks Involve with the project :

No risks will be involved with the project.

Capacity for Implementation of the Project :

Power & Electricity Department, Government of Mizoram has a good experience, staff and assets for implementation of the project.

Sustainability :

The proposed project shall remain the property of Power & Electricity Department, Govt. of Mizoram, and continue to be one of the state's important infrastructures for sustaining the economic development of the state. The Operation & Maintenance of the assets created from this project including the power system connected to them shall be in the hands of P&E Department, Govt. of Mizoram.

7/5/2021

Engineer-in-Chief
Power & Electricity Department
Government of Mizoram

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PROJECT WISE INFORMATION

Project Linkages with promotion of Tourism

Power supply is critical infrastructure for all round development and upliftment of the economy of the State. So, it is vital necessity to improve the reliability and quality of power supply at Chite and surrounding area as the present condition is very poor due to old and long 11kV distribution line. By constructing a new 33kV Sub-Station, there will be more reliable power supply for Chite and surrounding areas, thereby the chance of all round development activities including tourism aspect can be enhanced in this area.

Project Description/Summary

Chite is located at eastern side of Aizawl City and is agricultural and industrial area. At present Aizawl City is fed from 33/11 kV Sub-Stations at Zuangtui, Mualpui, Durtlang, Luangmual, Tlangnuam, Chawnpui and Indoor S/S. Some sub-station are located in thickly populated area which result problems in maintenance of sub-station incoming and out going feeders, distribution feeder extension in populated areas are also very difficult due limited and unsafe space. Chite and its surrounding area Ramthar, Armed Veng, Ramhlun and Falkland loclity of Aizawl City have received power supply through a long 11kV distribution lines enamated from 33kV Sub-Station at Zuangtui (Lower), Indoor Sub-Station and Mualpui resulting in a poor voltage regulation and unreliable power supply due frequent snapping of lines.

To overcome the above problems and also to provide more reliable power supply at lesser distribution losses, Construction of 2x10MVA, 33/11kV Sub-Station at Chite is proposed. This will also provide a reliable power for Chite, Ramthar, Armed Veng, Ramhlun and Falkland locality of Aizawl City.

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Additional Information

Sl No	Additional Information	Comments/ Input of State Government
1	Whether lying in backward areas	Yes
2	Whether independent/ new project or part of any other project of any other Ministry/ SG/ Agency, whether proposed, sanctioned or ongoing	New Project
3	If the project involves O&M, staff components, post construction management, recurring expenses etc for its running/ maintenance etc e.g. (e.g. running of a Hostel building), has the SG agreed to take care of these activities	Yes
4	Is the project in question supported/ coverable under any other scheme of Central or State Government	No
5	Whether the cost indicated in the concept paper of the project is based on latest SoR	Yes
6	Whether the project is at single location with detailed lat-long information	Yes the project is at single locationLat-Long information is as below:- 23.42325°N, 92.45139°E
7	Quantified output of the project	1). Reliable power supply for the eastern outskirts areas of Aizawl City 2). Reliable power supply for industrial, agricultural purposes for upliftment of economic life of the people. 3). AT&C Loss improvement 4). Increase in revenue collection
8	Outcome of the project (population targeted to be benefitted on completion)	About 50000 population from Ramhlun, Ramthar, Chite, Falkland & Armed Veng of Aizawl City will be benefitted.

7/5/2021
Engineer-in-Chief
Power & Electricity Department
Government of Mizoram

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NON DUPLICATION CERTIFICATE

This is to Certify that the work/project "Construction of 2x6.3MVA, 33/11kV Sub-Station Chite with associated link lines" at an estimated cost of Rs 10.49 crore is not proposed to any other funding sources.

7/5/2021

Engineer-in-Chief
Power & Electricity Department
Government of Mizoram

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LAND AVAILABILITY CERTIFICATE

This is to Certify that LAND is available at free of cost for "Construction of 2x6.3MVA, 33/11kV Sub-Station Chite with associated link lines" at an estimated cost of Rs 10.49 crore.

7/5/2024

Engineer-in-Chief
Power & Electricity Department
Government of Mizoram

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F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Mizoram under NESIDS - Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2 / 2021 - O/o US(NKS) dated: 13/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, some additional information has been sought by CEA(copy enclosed). You are therefore requested to furnish the following additional information in respect of the construction of 2x10MVA, 33/1Kv Sub-Station at Chite, Aizawl with associated linking lines costing Rs. 10.49 crore for further examining the proposal:

i. The details of the existing system, present maximum load, expected maximum load by 2025 and 2030 along with justification for construction of new 2x10 MVA, 33/11 sis at Chite Aizawl may be provided.
ii. Single line diagram for the proposed Substation showing incoming and outgoing feeders may also be provided.
iii. Detailed cost estimates along with the basis of cost estimates may be furnished.
iv. The details of present AT&C Losses and the proposed reduction in these losses along with details of Improvement in quality of power supply after carrying out the above works with cost benefit analysis may also be furnished.

2. The above clarification may be sought from the Government of Mizoram and furnished to the Ministry at the earliest.

3. This has the approval of Joint Secretary (Hydro).

Encl: As above,

(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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F. No. M-13016/62/2021-S-NE
Government of India
NITI Aayog
(NE States Division)

NITI Bhawan, Sansad Marg
New Delhi-110001, Date: 24.5.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Govt. of Mizoram under NESIDS.

Kindly refer to M/o DoNER's OM dated 13.05.2021 on the above mentioned subject regarding project proposal of Govt. of Mizoram namely "Construction of 2X10MVA, 33/11 KV sub-station at Chite, Aizawl with Associated Linking Lines" costing Rs. 10.49. The comments are as under:

i. The timeline provided for construction of 33/11 KV sub-station and associated link lines is 3 years, it appears to be on the higher side, it would be advisable that Govt. of Mizoram consults CEA for assessing the realistic project timelines.

ii. It will also unable to cater the full load of the service area as electricity load of the area will increased significantly in 3 years. Seeing the geography of the state, the proposed project must be completed within 12 month from the sanction date.

iii. State Government may be requested to consult CEA for technical vetting and examining the load profile of the area for suitable utilization of the proposed substation and distributed transformer.

iv. The proposal is supported based on the CEA input and State Government commitments to complete the project within 12 months.

T. Kabilan

(T. KABILAN)
Director (NE States)
Tel. 23096635

Shri N.K.Saha
Under Secretary
M/o DoNER
Level-12, Block-10
R.K.Puram, Sector-1
New Delhi-110066

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. No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region
.....

Janpath Bhawan,"B" Wing,
6th Floor, Janpath,
New Delhi. Dated: 17th May 2021

OFFICE MEMORANDUM

Subject: Construction of 2X10 MVA, 33/11 KV Sub Station at Chite, Alzawl with Associated Linking Lines, Mizoram.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 13.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of Technical Wing are as follows:

State Govt. has intimated total Project Cost of Rs 10.49 Crores in the concept notes. The different components required in the Project and cost of the different components have not been mentioned in concept notes. State Govt. may be asked to send the Abstract of Cost showing all components with cost alongwith basis of costing.

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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DFA/115909 (Attachment : Annexure D_1636135449810_910.pdf)

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Annexure D

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: D

State: Assam

Name of Project: Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Tipom.

Project Description/Summary (not exceeding 200 words): This road was constructed during 2004-05 and since then no major improvement works were done (excluding 2.30 kms under ARMF), resulting severe damages to the existing road. Being the one of the most interior places, this road plays a vital role in surface transport, especially for speedy and comfortable communication between Dibrugarh, Assam and Khonsa/Deomali in Arunachal Pradesh. Moreover, Tipom has a historic point of view, being the initial camping of Ahom King, Sukafa. There is a temple of Ahom community at Tipom.

In addition to these, local people differs from proper medical facilities, economic infrastructures development, etc. due to poor road connectivity.

The main objectives of this project is to widening & improvement of the existing road to give connectivity to the Tourism Industry as well Inter State Connectivity between two states, Assam and Arunachal Pradesh.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 60 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Tipom has a historic point of view, being the initial camping of Ahom King Sukufa. There is a Temple of Ahom community at Tipom.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**

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1	Road works (Pavement), length = 11.80 kms	23.51	
2	Culvert works, RCC Box culvert/HPC	0.68	
3	Protection work	0.65	
4	Construction of RCC Major bridge (4.50.00m)	34.5	
5	Road Safety measures	0.3	
6	Utility shifting works	0.35	
	Grand Total	59.99	
		Say Rs 60.00 crore	
1.7A	Out of above, SG's Contribution in the Project Cost, if any	For the above stated items/quantities - NIL	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	For the above stated items/quantities - NIL	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.8A	Original		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	Normative allocation of SG and related details	•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	Ministry of Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	Whether proposal has been accompanied with the following documents		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	

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6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: Comments received from TW, DoNER are:** a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) The amount of Rs 34.50 crore has been taken for construction of RCC Bridge of span 450m whch seems on higher side. State Govt. may be asked to convey on what basis this cost has been considered. (c) The MSA & CBR value is not mentioned.
7	**Important observations/comments of Prog. Division**
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.

(Dated Signature & Name of
Under Secretary concerned)

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GOVT. OF ASSAM

PUBLIC WORKS DEPARTMENT

PWD

GOVT. OF ASSAM

PWD, DIBRUGARH,LAHOWAL,MORAN & TINGKHONG
TERRITORIAL ROAD DIVISION

PROJECT CONCEPT PAPER

FOR

WIDENING & IMPROVEMENT OF BHADOI PANCH ALI TO JOYPUR KHONSA ROAD VIA TIPOM UNDER NORTH EASTERN SPECIAL ROAD INFRASTRUCTURE DEVELOPMENT PROJECT IN DIBRUGARH DISTRICT

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NON-DUPLICITY CERTIFICATE

Name of Project	Length of the Road considered in the estimate
Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Tipom under North Eastern Special Road Infrastructure Development Project in Dibrugarh district	Road length = 11.80 kms Minor Bridge length = 25.00m Major Bridge length = 450.0m

Certified that the above mentioned Project or any other part thereof are neither proposed nor taken up under any other schemes/programmes like NLCPR/NLCA/NABARD State Plan/MLA/ADS/MPLADS/PMGSY/Economic importance & Interstate connectivity etc

(Bikash Ch. Pangging)
Executive Engineer, PWRD,
Dibrugarh, Lahowal, Moran &
Lingkhong Territorial Road Division

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ABSTRACT OF COST

Name of work : Widening & Improvement of Bhadoi Panch .Mi to Joypur Khonsa Road via Tipom under North Eastern Special Road Infrastructure Development Project in Dibrugarh District

Sl No	Description of work	Approx. Cost (Rs)
1	Road works (Pavement, length = 11.80 kms	2351,00,000.00
2	Culvert works, RCC Box culvert HPC	68,00,000.00
3	Protection work	65,00,000.00
4	Construction of RCC Major bridge (450.00m)	3450,00,000.00
5	Road Safety measures	30,00,000.00
6	Utility shifting works	35,00,000.00
	Total cost of the project =	**5999,00,000.00**
	Say, Rs. 60.00 crores	
	(Rupees sixty crores only	

(B. C. PANGGING)
Executive Engineer, PWRD,
Dibrugarh, Lahowal, Moran & Tingkhong Territorial Road Division

Countersigned

Superintending Engineer, P&O
Dibrugarh Road Circle, Dibrugarh

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PROJECT CONCEPT PAPER

1. NAME OF PROJECT :-

Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Tipom under North Eastern Special Road Infrastructure Development Project in Dibrugarh district.

2. INTRODUCTION :-

Dibrugarh District is in Upper Assam and it is bounded by Dhemaji district on the north, Tinsukia district on the east, Tirap district of Arunachal Pradesh on the south-east and Sibsagar district on the north and south-west. The area stretches from the north bank of the Brahmaputra, which flows for a length of 95 km through the northern margin of the district, to the Patkai foothills on the south. The Burhi Dihing, a major tributary of the Brahmaputra with its network of tributaries and wetlands flows through the district from east to west. There is a large tract of Tropical Rainforest in its eastern and southern regions, which is a part of the Deiring Patkai wildlife sanctuary.

The greater Dibrugarh District have seven Civil Circles, namely Dibrugarh East Dibrugarh West, Chabua, Tengakhat, Naharkatia, Tingkhong and Moran.

Dibrugarh district is located at between 27° 5' 38" N to 27° 42' 30" N latitude and 94° 33' 36" E to 95° 20' 8" E longitude and have 3381.00 square kilometres of area.

Bhadoi Panch Ali to Joypur Khonsa Road via Tipom is categorized as Other District Road (ODR) which connect Doobuli Tiniali to Duliajan Digboi Road (SH-24) to Joypur Khonsa Road (NH-26) at Joypur giving Inter State Connectivity to Khonsa and Deomali of Arunachal Pradesh.

The road works and Bridge works included in this project are out of those had not been included in PMGSY, ARIASP, RIDF etc. and have been selected on priority basis with the broad objective of ensuring speedy development of infrastructure in the North-Eastern Region as well as it will boost up tourism industry as the road directly leading to the temple of Ahom community at Tipom.

3. NECESSITY :-

This road was constructed during 2004-05 and since then no major improvement works were done excluding 2.30 kms under ARWH, resulting severe damages to the existing road. Being the one of the most interior places, this road plays a vital role in surface transport, especially for speedy and comfortable communication between Dibrugarh, Assam and Khonsa Deomali in Arunachal Pradesh. **Moreover, Tipom has a historic point of view, being the initial camping of Ahom King, Sukafa. There is a temple of Ahom community at Tipom.**

In addition to these, local people differs from proper medical facilities, economic infrastructures development, etc. due to poor road connectivity.

4. OBJECTIVE :-

The main objectives of this project is to widening & improvement of the existing road to give connectivity to the tourism industry as well Inter State Connectivity between two states, Assam and Arunachal Pradesh.

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Following specifications will be provided in this project -

1. Clearing & Grubbing the road land.
2. Earthwork in embankment and shoulders.
3. Dismentling existing damaged granular black topped surface.
4. 250mm thick GSB.
5. 150mm thick WMM base course.
6. Prime coat & Tack coat.
7. 50mm thick Dense Bituminous Macadam.
8. 40mm thick Bituminous Concrete
9. RCC Box Culverts at damaged cross drainage works.
10. Protection work with Boulder apron, slope pitching.
11. One 25.0m span RCC Minor bridge.
12. One 150.0m span RCC Major bridge over river Barnadhing.
13. Road Safety measures and Utility shifting.

5. BENEFITS :-

Major portion of Agricultural, Dairy products, Forest products, etc. transported through this road to the other parts of the State. This road is the heart line of Tipam area, connecting several villages, schools, markets, etc. The project will give better connectivity to the Khunsa, the district H.Q. of Tirap district of Arunachal Pradesh and Dibrugarh, Assam. In addition to these, improvement of this road will boost up tourism industry.

Moreover, from the point of counter-insurgency, this road will also plays a vital role in road communication to the interior border areas of Assam & Arunachal Pradesh

6. ECONOMIC PROFILE :-

A good road communication is a boon to uplift the economic condition of the inhabitants of the road influence area. The economic profile of the region and the road influence area of assigned roads can be ascertained on realization of the following aspects -

It will provide
1. The free & safe movement of vehicular traffic of road communication between interior places of Tipam and other parts of the state including improvement of tourism industries.
2. The influence area of the road is well known for various Agricultural Dairy Forest products and Tourism. Widening & Improvement of this road will boost up the economic condition of the people under road influence area to merchandize their hard labour products at places of demand

7. OPERATION AND MAINTENANCE ARRANGEMENT FOR THE PROJECT :-

The implementing agency will be the Public Works Department of the Government of Assam consisting of more than 2 Nos qualified and experienced graduate engineers who have various achievements to their credit. The Executive Engineer of Dibrugarh Rural Road Division will be the Nodal Officer and will be the Engineer-in-charge of the project. This project is formulated under North Eastern Special Road Infrastructure Development Project under the control of the Chief Engineer, PWD Roads, Assam with data base from the Executive Engineer, PWD, Dibrugarh, Lahowal, Moran & Tingkhong Road Division and his team of Engineer's

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Govt of Assam has accepted the road maintenance policy and a Road Board is formed creating a dedicated road fund a corpus of Rs.60 crores to begin with Maintenance of Roads Bridges will be the subject of the Road Board.

8. COST OF THE PROJECT :-

1.	Road works (Pavement), length = 11.80 kms	Rs.23,51,00,000.00
2.	Culvert works- RCC Box culvert HPC	Rs. 68,00,000.00
3.	Protection work	Rs. 65,00,000.00
4.	Construction of RCC Major bridge (450.00m)	Rs.34,50,00,000.00
5.	Road Safety measures	Rs. 30,00,000.00
6.	Utility shifting works	Rs. 35,00,000.00
	Total cost of the Project	**Rs.59,99,80,000.00**
	Say,	**Rs.60.00 crores**

9. PHYSICAL & FINANCIAL PHASING, TIME FRAME :-

Physical & Financial Phasing

YEAR	PHYSICAL (%)	FINANCIAL (Rs. in crores)
2021-22	40%	Rs. 24.00
2022-23	55%	Rs. 33.00
2023-24	5%	Rs. 3.00

10. STATUTORY CLEARANCE :-

Since the work will be executed along the existing PWD road land, clearance from the Forest Deptt. is not necessary. Pollution is non-entry : as such permission from Pollution Control Board is not necessary

11. AVAILABILITY OF LAND :-

Land acquisition is not at all necessary, as the proposed work will be executed over the existing alignment, which are presently on PWD land

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12. IMPLEMENTATION SCHEDULE :-

Pre-construction Stage :

(i) Survey, Soil investigation, design and estimate : 1 month.

(ii) NIT and issue of work order : 1 months.

Construction stage :

(iii) Commencement of work : 1 month.

(iv) Time of completion : 24 months.

(v) Total time of completion from the NIT stage : 26 months.

13. PROJECT FORMULATION PROCESS :-

Once this concept paper is accepted, consultancies will be engaged for investigation of selected work, detail survey, design and estimation of the road bridges and detailed estimate will be submitted

14. SUMMARY OF THE PROJECT :-

Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Dipom under North Eastern Special Road Infrastructure Development Project in Dibrugarh district with an estimated cost of Rs 56.00 crores

The formation width of the proposed road will be 9.00m with a carriageway of 5.50m including re-construction of damaged Culvert new culverts and construction of new RCC Bridge No.9 Span 45 m Built-in Girder of span 45.00m.

25.2.22

Executive Engineer, PWD,
Dibrugarh, Lahowal, Moran &
Tinsukhia Territorial Road Division

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 09.08.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Assam for funding under North East Special Infrastructure Development Scheme (NESIDS).

Please refer to your Office Memorandum No. NESIDS-12/1/2021-O/o US (NLCPR) dated 29.07.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Tipom.	60.00	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) The amount of Rs 34.50 crore has been taken for construction of RCC Bridge of span 450m which seems on higher side. State Govt. may be asked to convey on what basis this cost has been considered. (c) The MSA & CBR value is not mentioned.
2.	Widening and Strengthening of Naibari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya.	23.91	(a) The provision @ 2% on account of contingency has been taken. Program division may like to see. (b) The provision of Quality Control @ 1% has been taken which may be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (c) A layer of WBM- III of thickness 75mm has been provided on the GSB in the widened portion of road but as per IRC code, WMM has to be provided. (d) 3% extra for widening has been considered for different items like GSB, WMM, WBM, DBM, BC and Tack/prime coat. State Govt. may be asked to clarify. (e) The MSA & CBR value is not mentioned to ascertain the thickness of different layers proposed in the road.
3.	Improvement & Widening of Lokopriya Gopinath Bordoloi road, SH-3B from Ch. 0.00 KM to Ch. 18.65 KM	85.50	(a) The MSA & CBR value is not mentioned to ascertain the thickness of different layers proposed in the road. (b) The weightage of the layers of existing road has not been considered while prepration of cost estimate. (c) The length of the RCC Bridges and culverts has not been deducted in the length of the road while prepration of cost estimate. (d) The lump sum provision @ Rs. 3.20 Crore on account of road furniture has been taken which seems on higher side. (e) The provision @ 2% on account of contingency has been taken. Program division may like to see.
4.	Improvement & Upgradation of Jamuguri to Nagsankar connected road (Ch. 0.00 KM to Ch.	20.09	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned.

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	12.50 KM) in Sonitpur District.		(d) The formation width is not mentioned in Concept Notes. (e) It is not clear whether the weightage of the layers of existing road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
5.	Improvement & Upgradation of Maibong Semkhor road (Ch.0.00 KM to 28.32 KM).	78.11	The thickness of pavement layers like GSB, WMM, DBM and BC has been considered as per IRC 37: 2001 for CBR value 6% and MSA 5. But the latest code is IRC 37: 2018. State Govt. may be asked to adopt the same and prepare cost estimate accordingly.
6.	Improvemnent & Strengthening of Bishmuri Saralpara Sarbhog road in Kokrajhar District.	72.11	(a) The cost of GSB, WBM Grade – II and WBM Grade – III has been taken in the Cost Appraisal whereas in the Typical Cross Section (Strengthening) these layers have not been shown. Moreover, in typical section layer of BM (75mm) and DBM (75 mm) considered which does not seems correct. The State Govt. may be asked to review the typical cross section as per IRC Code and prepare the estimate accordingly. (b) The MSA & CBR value is not mentioned. (c) The provision @ 2% on account of contingency has been taken. Program division may like to see. (d) The provision of Quality Control @ 1% has been taken which may be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (e) It is not clear whether the weightage of the layers of existing road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
7.	Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji Longhup.	52.56	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) The formation width is not mentioned in Concept Notes. (e) The provision of Quality Control @ 2% has been taken. The quality control @ 1% is to be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (f) The provision of Interlocking Cement Concrete (CC) Block Pavements has been taken. There will be movements of the commercial vehicles also. State Govt. may be asked to give the justification of providing Interlocking CC Pavements instead of Bituminous layers. (g) The Earth Work amounting to Rs 6.86 crores has been taken which seems on higher side as stated in concept note that alignment mostly follow the existing road.
8.	Construction of RCC Bridge No. 3/1 on the road from NH-39 near Silonijan State Dispensary to Dhansiri Par Ghat via Panika basti (including approach)	22.24	In abstract of cost, the total amount of different components has been mentioned. No technical details has been provided to offer the comments.

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9.	Improvement of road from Hidipi Bazar at DS road to Bokajan via Ghandhipur (L=18.00 KM).	26.23	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
10.	Improvement of road from 5th KM of BBDC road to 4th KM of Rishakhidi road (Ch.0.00KM to 8.00KM).	22.89	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
11.	Improvement of road from 16th KM of BBDC road to Phangcherrop (Ch.0.00KM to 14.00KM).	44.31	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify. (e) The provision @ Rs. 3.15 Crore on account of road furniture has been taken which seems on higher side.
12.	Improvement/ Construction of Road from Moisokilling at DS road to Mulhoi via Saijang (L=25 KM).	43.23	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
13.	Construction of road from ND Block to Arlongvoti (L=40 KM).	101.97	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.

This issued with the approval of Superintending Engineer (TW).

9/8/2021
(Parveen Kumar)
Executive Engineer (TW)

To

Shri Akhilesh Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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Annexure E

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: E **State: Assam**

Name of Project: Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya

Project Description/Summary (not exceeding 200 words): The road starts from Nalbari Palla road at Solmara and passes through various thickly populated villages and meets at Bangaon Jagra road. The road crosses Chamata Rampur road at Bhoira Solmari, BBB road at Belsor. Currently road in in very bad condition. Improvement of this road will go a long way in uplifting socio-economic condition of people of region.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 23.91 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	The Assam famous Billeswar Devalaya touches the road and during Durga Puja large no. of devotees come here.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	

S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**	
	Road, Culvert and Road Protection works		
1	Site Clearance and dismantling	0.7	
2	Earthworks	1.34	
3	Base and Sub-base Courses	6.28	
4	Bituminous Courses	5.51	
5	Road Furniture & Miscellaneous Works	0.32	

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6	Culverts & Drain Works	4.95	
7	Embankment Protection Works	1.83	
8	Horticulture	0.12	
	Total for Road, Cultver & Road Protection Works	20.43	
9	Add 2% for Contingency	0.41	
10	Add 1% for Quality Control	0.2	
12	Add 1% for DPR Preparation	0.2	
13	Add 13% for GST & TWC	2.66	
	Total Project Cost	23.91	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry of Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	

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6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER observed that a) The provision @ 2% on account of contingency has been taken. Program division may like to see. (b) The provision of Quality Control @ 1% has been taken which may be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (c) A layer of WBM- III of thickness 75mm has been provided on the GSB in the widened portion of road but as per IRC code, WMM has to be provided. (d) 3% extra for widening has been considered for different items like GSB, WMM, WBM, DBM, BC and Tack/prime coat. State Govt. may be asked to clarify. (e) The MSA & CBR value is not mentioned to ascertain the thickness of different layers proposed in the road.
7	**Important observations/comments of Prog. Division**
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.

(Dated Signature & Name of
Under Secretary concerned)

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(2.)

GOVT. OF ASSAM

OFFICE OF THE EXECUTIVE ENGINEER, PWRD, ASSAM
NALBARI DISTRICT TERRITORIAL ROAD DIVISION
NALBARI

PROJECT CONCEPT PAPER

FOR

Name of Work: - Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya under NESIDS for the year 2021-22

Estimated Amount: Rs. 2391.285 Lakh

Name of District: Nalbari.

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NON-DUPLICITYCERTIFICATE

Sl No	*Name of Scheme*	*Road/Approach Length*	*Bridge Length*	*Estimated Amount (L)*
1	*Widening and Strengthening of Nalbari Palla road at Salmara to Bangaon Jugra road via Billeswar Devalaya under NESIDS for the year 2021-22*	*8.00 km*	*nil*	*Rs 2391.285*

Certified that the above project/scheme or any part thereof is not taken up under any scheme/programme like NEC/NABARD/MLALADS/PMGSY/ASRB MMPDA/TFC etc. nor this shall be proposed for such scheme in future.

30/4/21

Executive Engineer, PWRD
Nalbari District Territorial Road Division
Nalbari

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CERTIFICATE OF ROAD CATEGORY

It is hereby certified that the Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Bitleswar Devalaya under NESIDS for the year 2021-22 is RR (Rural Road).

The road starts from Nalbari Palla road at Solmara and ends at Bangaon Jagra road in Nalbari District, Assam covering a length of 8.00 Km.

30/4/21

Asstt. Executive Engineer, PWD
Dhaimapur Territorial Road Sub-Division
Chamata

30/4/21

Executive Engineer, PWD
Nalbari District Territorial Road Division,
Nalbari

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LAND AVAILABILITY CERTIFICATE

This is to certify that the Right of way available under Assam P.W.D. (Roads) for the scheme "Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya under NESIDS for the year 2021-22" will be sufficient to implement the proposed scheme with width of 5.50m carriageway. No land acquisition will be required.

30/9/21

Executive Engineer, PWD(R)
Nalbari District Territorial Road Division
Nalbari

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GOVT. OF ASSAM

NAME OF DIVISION :- P.W.R.D NALBARI DISTRICT TERRITORIAL ROAD DIVISION NALBARI

ABSTRACT OF COST

Name of Work :- Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya under NESIDS for the year 2021 22

Road Length : 8.00 Km

Sl No	ITEMS	Amount in Rs
	1) ROAD, CULVERT & ROAD PROTECTION WORKS	
1	Site Clearance and Dismantling	763451.00
2	Earthwork	13377670.00
3	Base and Sub-base Courses	62854907.00
4	Bituminous Courses	55126877.00
5	Road Furniture & Miscellaneous Works	3209735.00
6	Culvert & Drain Works	49567200.00
7	Embankment Protection Works	18294970.00
8	Horticulture	1188600.00
	Total for Road, Culvert & Road Protection Works	**204383410.00**
	Add 2% for Contingency	4087668.00
	Add 1% for Quality Control	2043834.00
	Add 1% for DPR Preparation	2043834.00
	Add 13% for GST & IWC	26569843.00
	TOTAL PROJECT COST = Rs.	**239128589.00**
	Say Rs.	**2391.285 Lakhs**

Rupees Twenty Three Crore Ninety One Lakh Twenty Eight Thousand Five Hundred Only

30/4/21

Asstt. Executive Engineer, PWD
Nalbari Territorial Road Sub Division
Nalbari

30/4/21

Asstt. Executive Engineer, PWD
Nalbari District Territorial Road Division
Nalbari

30/4/21
S.O

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PROJECT CONCEPT PAPER

1. INTRODUCTION:

Assam is an important State in the geo-eco-political set up of India and gateway to the other States of the north East region and South East Asia. It is endowed with resources, important amongst them being Oil, Forest and agricultural Products like Tea, Rice etc. It has international boundaries with Bangladesh, Bhutan and is key to promote trade with these countries. Assam is gateway to South East Asia and a strategic base for commercial activities. It is also close to China in the North. After opening of border trade between Myanmar and North East region of India, Assam has become a potential State for export business with China and other Asian Countries besides Bangladesh.

The region consists of hilly terrain, the Brahmaputra Valley, the Barak valley, and a number of lateral valleys. Heavy precipitation, extremely rich bio diversity, high seismicity, rivers with highly fluctuating discharge, etc also characterize it. The region, despite a number of existing Tea, Ply wood, Cement factories, has been considered as basically free industrial though wide range of industries could develop. The region is endowed with rich sources of oil, Gas, Coal, Lime stone, Forest wealth and extremely high hydro power potential offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, fruits, flowers and herbs much of which could be processed and exported to rest of the countries as well as abroad, but the same will not be possible removing the communication bottlenecks.

The total quantity of rice produced in Assam is above 34 three) million tones. Assam's name is synonymous with fine tea, which is exported to states within India as well as abroad. There are total 1012 numbers of tea gardens in Assam and the total annual production of tea from them is about 1,00,000 tones compared to the national total of about 7,50,000 tones. The major mineral resources of Assam are Coal(8,50,000 MT), Crude Oil (45,53,600 MT), Natural Gas(1,25,000 million cubic utilized quantities) and Lime stone(1,11,000 MT) (the figures indicating the annual quantities of production)

The State has a number of wild life sanctuaries and temples of international repute attracting tourists from within the country as well as abroad.

In spite of such high potential, the state's economy is still simple, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to poor communication scenario in Assam. The existing road network in the region is passing with the inadequate capacity, poor riding quality, weak pavement, poor geometric, submersible stretches, semi-permanent timber bridges, etc. The physical ability of raw material's cannot be provided and therefore their utility through

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speedy transport of finished products is not availed. This has a serious impact in development and social activities like, education, health, promotion of tourism, postal services and other poverty alleviation programs since accessibility cannot be established, due to these bridge gaps, other development activities could make no headway.

The total numbers of timber bridges in Assam are around 2100 number on different PWD Roads excluding National Highways.

A minimum amount of Rupees ten Crore is required annually to repair these bridges whereas our total budgetary provision for maintenance is rupees Twenty Crore only. Some of these bridges are even washed away during recurring flood and are not rebuilt due to fund crunch. Moreover, the density of forest in Assam is decreased to 28 % creating ecological and socio-economic problems and the Hon'ble Supreme Court has banned the felling of trees. As a consequence to non availability of timber to repair the bridges, most of the timber bridges in Assam are in dilapidated condition and some of these are non-existent. The communication scenario in Assam is very gloomy with no through rural roads in the districts. The place utility of raw materials cannot be precluded and therefore time utility through speedy transport of finished products is not availed. This has a serious impact in development and social activities like, education, health, and promotion of tourism, postal services and other poverty alleviation programmes. Since accessibility cannot be established, due to these bridge gaps, other development activities could make no headway.

The traffic on the state Highway varies from 260 PCUs to 4560 PCUs with the average being 1208 PCUs. The average traffic on Major District Road is 1166 PCUs with variation being from 300 PCUs to 3200 PCUs.

The average composition of the slow moving vehicles on the state roads is as high as 65 % compared to their share on National Highway, which is 40 % of the total traffic. On the state Highways the average share of the buses is around 4.0 % whereas on Major District Roads the share of bus traffic is around 3.0 %. The contribution of trucks on National Highways is around 25.0 % of the total traffic on National Highways, whereas on State Roads their average share is around 9.0 %.

Analysis of travel pattern of goods vehicular trips reveal that out of the total trips, share of inter-district and intra-district trips were 28 percent and 21.3 percent respectively. While share of inter-state movement with North-eastern States was 27.1 percent and 19.2 percent with rest of India. International movement was 1.2 percent and through traffic with reference to Assam 3.6 percent. Intra-district movement of 3 axle is maximum in case of LCV (light commercial vehicles) followed by HCVs (heavy commercial vehicles) and MAVs (multi axle vehicles) which is 27.8 %, and 8.8 % respectively. Inter-state movement with North-eastern States is dominated by HCVs and that with rest of India rest of Bharat by MAVs having percentages of 21.6 % and 39.5 %, respectively.

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Analysis of travel pattern of passenger vehicles reveal that 13477 passenger vehicle trips were performed daily in the state. Out of the total trips, share of intra-district and inter-district trips was 49.6 percent and 33.4 % respectively. While for inter-state movement with North Eastern State was 11.0 % and 4.0 % with rest of India. International movement was 0.1 % and through traffic with reference to Assam was 1.9 %.

The Non Lapsable Central Pool of Resources, created from the unspent balance of the allocated expenditure of 19 % of the concerned central Ministries with the object of filling up the resource gap in creation of new infrastructure has now been considered as a potential source of fund for taking up works of replacement of SPT Bridges on important roads in Assam.

The Bridges included in this project are out of those, which had not been included in PMGSY, ARIASP, RIDF, etc., and they have been selected on priority basis with the broad objective ensuring speedy development of infrastructure in the North Eastern region.

2. **SECTORAL POLICY:**

The major road & Bridge schemes under implementation in the state are Pradhan Mantri Gram Sadak Yojana (PMGSY) funded by the Govt. of India, Central Road Fund (CRF) funded by the Govt. of India, RIDF funded by the NABARD, ARIASP funded by the World Bank, Interstate Border Area Development Schemes, etc. Each of the above mentioned schemes have been embarked upon with specific objectives. PMGSY envisage connectivity to all villages with population more than thousand by 2003 and connectivity to all villages with population more than five hundred by 2007. Non Lapsable Central Pool of Resources envisages balanced development in the country. RIDF loan is sanctioned by NABARD on projects with an objective of development of rural infrastructure. ARIASP also envisage development of rural infrastructure for agricultural development. For the roads important from other points of view, and beyond the purview of the above-mentioned schemes, the State Govt. has to consider other sources of fund.

Now the Non Lapsable Central Pool of Resources Schemes introduced with the objective of filling up the resource gap in creation of new infrastructure, it is now been considered as a potential source of fund for taking up specific major projects for improvement of roads and bridges considered on priority basis with the broad objective of ensuring speedy development of infrastructure in the North Eastern region.

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3. **SUMMARY OF PROJECT:**

Name of Project: **Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya under NESIDS for the year 2021-22**

The Proposed project for Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya under Nalbari District Territorial Road Division has a length of 8.00 Kms and includes widening of the existing single lane carriageway road to intermediate lane carriageway road and construction culverts and Protection works

Estimated Amount: Rs. 2391.285 Lakh

4. **JUSTIFICATION FOR TAKING UP THE PROJECT:**

The Nalbari District is one of the 33 districts under the state of Assam which is constituted by The Indian Constitution. The Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya is situated in the Nalbari District having a total length of this road is 8.00 Km. The road starts from Nalbari Palla road at Solmara and passes through various thickly populated villages like Gidlagaon, Kasibari, Bhoira Solmari, Pashim Belsor, Billeswar etc and meets the Bangaon Jagra road. This road crosses the Chuntata Ranjpar road at Bhoira Solmari, BBB Road at Belsor. This road passes through some very agriculturally rich areas which produce paddy, mustard, jute, vegetable etc. The farmers at present are facing great difficulty in transporting their agricultural output to the market due to poor condition of the road. Also there are many poultry, pig farms and big fisheries near the road. Moreover, the Assam Famous Billeswar Devalaya also touches the road and attracts huge rush large nos. of devotees gathered for which lot of problem facing by the devotees due to bad condition of this road. Also this road provides connection to numerous educational institutions, Banks, Offices, Markets, etc. Hence improvement of this road will go a long way in uplifting the socio-economic condition of the people of this region.

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5. **PHYSICAL & FINANCIAL PHASING OF THE PROJECT YEAR-WISE:**

Project Implementation Schedule

Name of Work : Widening and Strengthening of Nalbari Paila road at Solmara to Bangaon Jagra road via Billeswar Devalaya under NESIDS for the year 2021-22

Items/ Activities (milestones)	2021-2022		2022-2023				Total
	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
I. Physical							
1 Road Works							
2. Culvert Works							
3) Protection Works							
5) Miscellaneous Works							
II. Financial							
(Rs. In Lakh)	353.147	396.156	333.406	433.406	413.147	392.023	2391.285

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6. **COST ESTIMATE:**

Name of Work :- Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya under NESIDS for the year 2021-22

1) For Road Works

Total Length of Road = 8000.00 m

Total Br. length = (-) 26.00 m

Total = 7974.00 m

Sl. No.	Item of Work	Quantity	Unit	Rate	Amount	Remarks
1-2.3	Clearing & Grubbing	2x7974.00x4.00 =63792sqm = 6.379Hect	Hect	47368.00	302275.00	
	Dismantling of Structures	2x6x0.00x2.00x0.825 =108.80 Cum	Cum	519.00	61657.00	
	1) Cement concrete					
	3) Hume pipe	2x4x7.50 = 60.00 mtr	metre	377.00	22620.00	
2.2.15	Scarifying existing Bituminous Surface	(1x5482.00x3.75)+(1x2492.00 x5.50) = 34263.50 Sqm	Sqm	11.00	376899.00	
4.3.6	D/Work in Excavation	1x5482.00x1.75x0.225 = 2158.538 cum	Cum	84.00	181317.00	
5.3.10	F/Work in Case	(1x5482.00x5.856)+(1x2492.00x4.416) = 43107.264 cum	Cum	238.00	10259529.00	
6.3.18	G/Work in Subgrade	1x7974.00x1.27= 10126.98 cum	Cum	290.00	2936824.00	
7.4.2	GSB (Including 3% for extra widening)	1x5482.00x1.75x0.15 (+ 3%) = 1482.196 cum	Cum	2773.76	4111256.00	
8.4.9	WBM II (Including 3% for extra widening)	1x5482.00x1.75x0.075 (+ 3%) = 1201.642 cum	Cum	4247.40	5102349.00	
	WBM (Including 3% for extra widening)	1x7974.00x5.50x0.25 (+ 3%) = 11293.178 cum	Cum	4749.00	53631302.00	
9.5.1	Prime Coat (Including 3% for extra widening)	1x7974.00x5.50 (+ 3%) = 45172.71 sqm	Sqm	48.00	2168290.00	
10.5.2	Tack Coat (Including 3% for extra widening	2x7974.00x5.50 (+ 3%) = 90315.42 sqm	Sqm	11.00	993800.00	
11.5.6	D.B.M. (Including 3% for extra widening)	1x7974.00x5.50x0.07 (+ 3%) = 3162.09 cum	Cum	10053.00	31788191.00	
12.5.8	B.C. (Including 3% for extra widening)	1x7974.00x5.50x0.04 (+ 3%) = 1806.9908 cum	Cum	11166.20	20176296.00	
3-NS	2m Slab Culvert	10	Nos.	1200000	12000000.00	
11-NS	Fencing	LS = 1500.00 m	metre	12000.00	18000000.00	
5-NS	45 cm Drain cum footpath	LS = 2x7200 m	metre	15653.00	37567200.00	
	Traffic Signs					
1.10.4	90A in equilateral triangle	LS = 35 Nos	Nos.	4052.00	141820.00	
	90(a) circular	LS = 10 Nos	Nos	5397.00	53970.00	

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	80(min) x 60 cm rectangular	LS = 10 Nos	Nos.	7483.00	74830.00	
	Kilometer Stone					
17.8.11	5th Kilometre stone	1	each	4171.00	4171.00	
	Ordinary Kilometre stone	8	each	2592.00	20736.00	
	200th meter stone	32	each	688.00	22016.00	
18.8.15	Reflective pavement marker	LS = 3200 Nos	each	249.00	796800.00	
29.8.13	Hot applied thermoplastic compound	3x2974.00x0.10= 2392.00 sqm	Sqm	876.00	2095392.00	
20 17.22	Single bamboo spun and palisading	LS = 697.00	Rm	423.20	294970.00	
21.11.9	Planting of Trees	LS = 350 Nos	Nos	831.60	290886.00	
22.11.2	Half Brick Circular Tree Guard	LS = 350 Nos	Nos.	2565.00	897750.00	
			Total for Road Works =		**20438410.00**	

2) For Bridge Works Nil

	Total = Rs.	0.00	
	Total = Rs.	**20438410.00**	
	Say = Rs.	2043.834	**Lakhs**
1)	Add 2% for Contingency	40.877	Lakhs
2)	Add 1% for Quality Control	20.438	Lakhs
3)	Add 1% for DPR Preparation	20.438	Lakhs
4)	Add 13% for GST & IDC	265.698	Lakhs
	Grand Total = Rs.	**2391.285**	**Lakhs**

Rates are based on the current schedule of rates of Assam, Public Works Department and analysis thereof.

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7. IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM:

The implementing agency will be the Public Works Department of the Govt. of Assam comprising of more than 1300 qualified and experienced graduate engineers who have to their credit, completion of 1223 nos. of RCC bridges under various projects like World Bank, NABARD loan, NEC, Border Roads schemes and state plan. The Executive Engineer of Nalbari District Territorial Road Division will be the Nodal Officer and will be the Engineer In charge of the project. This project is formulated under the direction of the Chief Engineer, PWD (Roads) with data base from the Executive Engineer, Nalbari District Territorial Road Division and his team of Engineers.

7.1. STATUTORY CLEARANCE:

Since this is an existing road, clearance from Forest is not necessary. Pollution is non-entity; as such permission from Pollution Control Board is not necessary.

7.2 AVAILABILITY OF LAND:

As the road is proposed along the existing alignment, land acquisition is not at all necessary.

7.3. IMPLEMENTATION SCHEDULE:

7.3.1. PHYSICAL:

7.3.1.a. Pre construction stage:

(i) Survey and preparation of DPR: 2 month

(ii) NIT and Issue of work order: 2 months

7.3.1.b. Construction stage:

(i) Commencement of work: 15 days from the issue of Formal Work Order

(ii) Date of Completion: 24 months

7.3.2. FINANCIAL:

Year	Financial Rs.
2021-22	759.303 L.
2022-23	1631.982 L.

8. MAINTENANCE ARRANGEMENT FOR THE PROJECT:

Govt. of Assam has accepted the Road Maintenance Policy and a Road Board is formed creating a dedicated road fund with a corpus of Rs 60 Crore to begin with. Maintenance of the road will be the subject of the Road Board.

9. PROJECT FORMULATION PROCESS:

Once this concept paper is accepted, a prerequisite consultancies will be engaged for subsoil investigation, detail survey, design and preparation of the road and a detailed estimate will be submitted.

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10. **BLUE PRINT/DESIGN:**

The design of the road will be in accordance with IRC code of practices for road design and ISI and ISO Quality Management Systems. The design of approaches will also be according to the above codes. Blue Prints for design of bridges and approaches will be submitted along with DPR, a sketch map of the location of the project is however attached herewith.

30/4/21

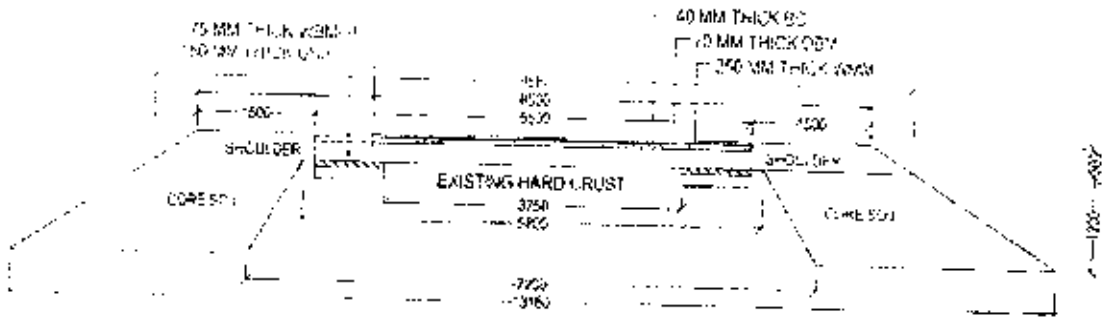
Asstt. Executive Engineer, PWD
Dhaimapur Territorial Road Sub-Division
Dhaimapur

30/4/21

Executive Engineer, PWD
Nalbari District Territorial Road Division,
Nalbari

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Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya
(Ch. 0.00 m to Ch. 3500.00 m & Ch. 6000.00 m to Ch. 8000.00 m)



TYPICAL SECTION OF ROAD

Core = {(13.18+9.58)/2x1.20 - (7.20+5.80)/2x1.20 = 5.856 m²
Shoulder = (9.58-8.50)/2x0.36 - 5.50x0.36 = 1.27 m²

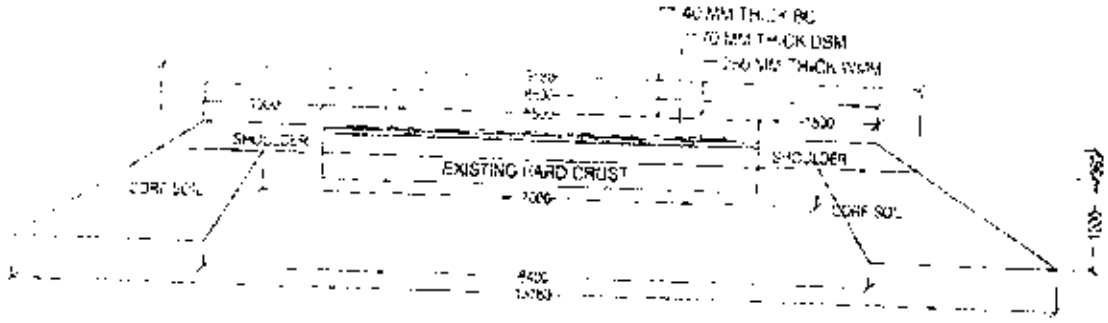
Asstt. Executive Engineer, PWD
Dhemaji-cum-Territorial Road Sub-Division
Dhemaji

Executive Engineer, PWD
Nalbari District Territorial Road Division
Nalbari

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DFA/115909 (Attachment : Annexure E_1636135449833_377.pdf)

Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya
(Ch. 3500.00 m to Ch. 6000.00 m)



TYPICAL SECTION OF ROAD

Core = (13.18+9.58)/2x1.20 - (8.40+7.00)/2x1.20 = 4.416 m²
Shoulder = (9.58+8.50)/2x0.36 - 5.50x0.36 = 1.27 m²

30/4/21

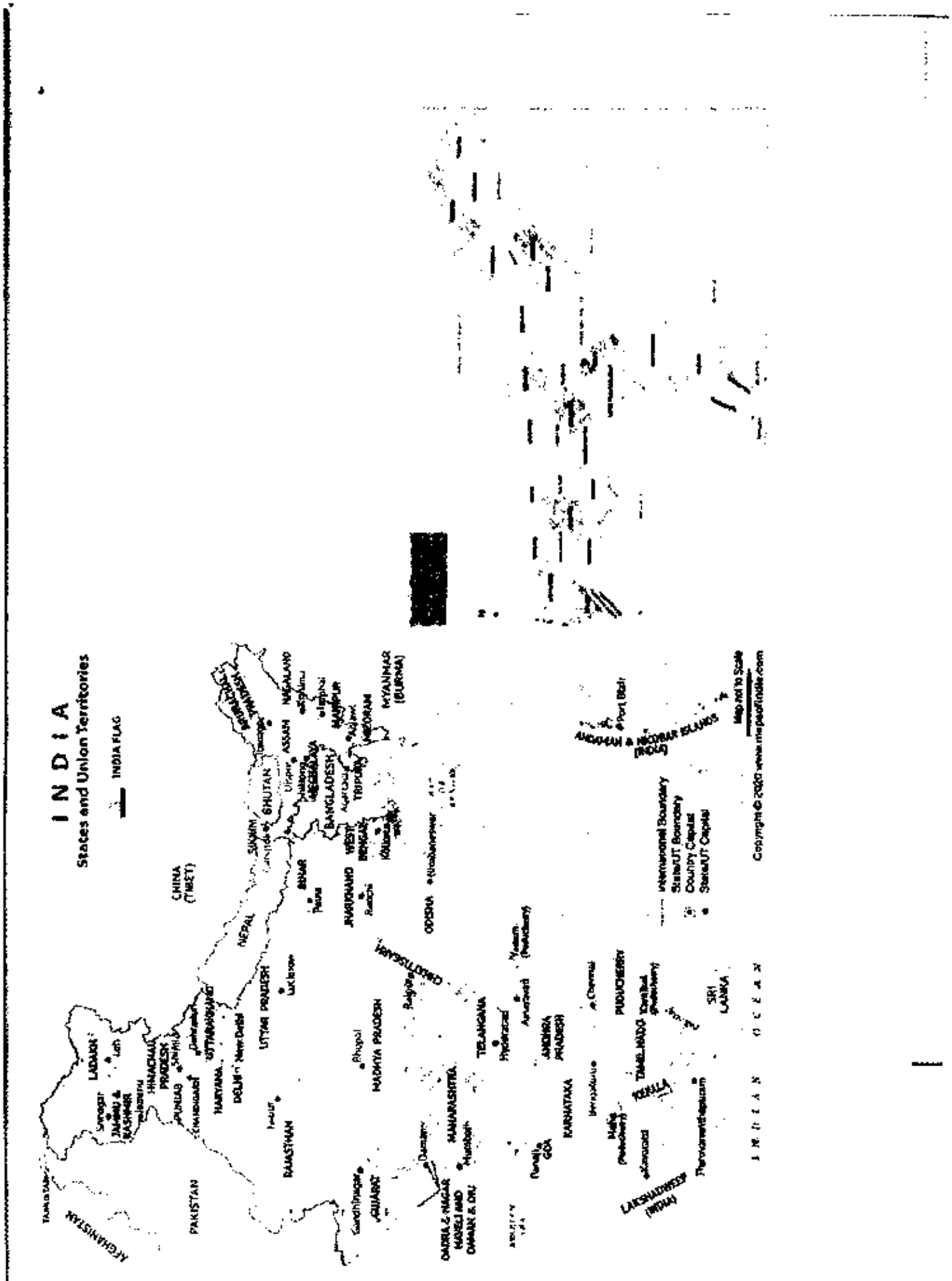
Asstt. Executive Engineer, PWD
Dhemaji(e) Territorial Road Sub-Division
Dhemaji

30/4/21

Executive Engineer, PWD
Nalbari District Territorial Road Division,
Nalbari

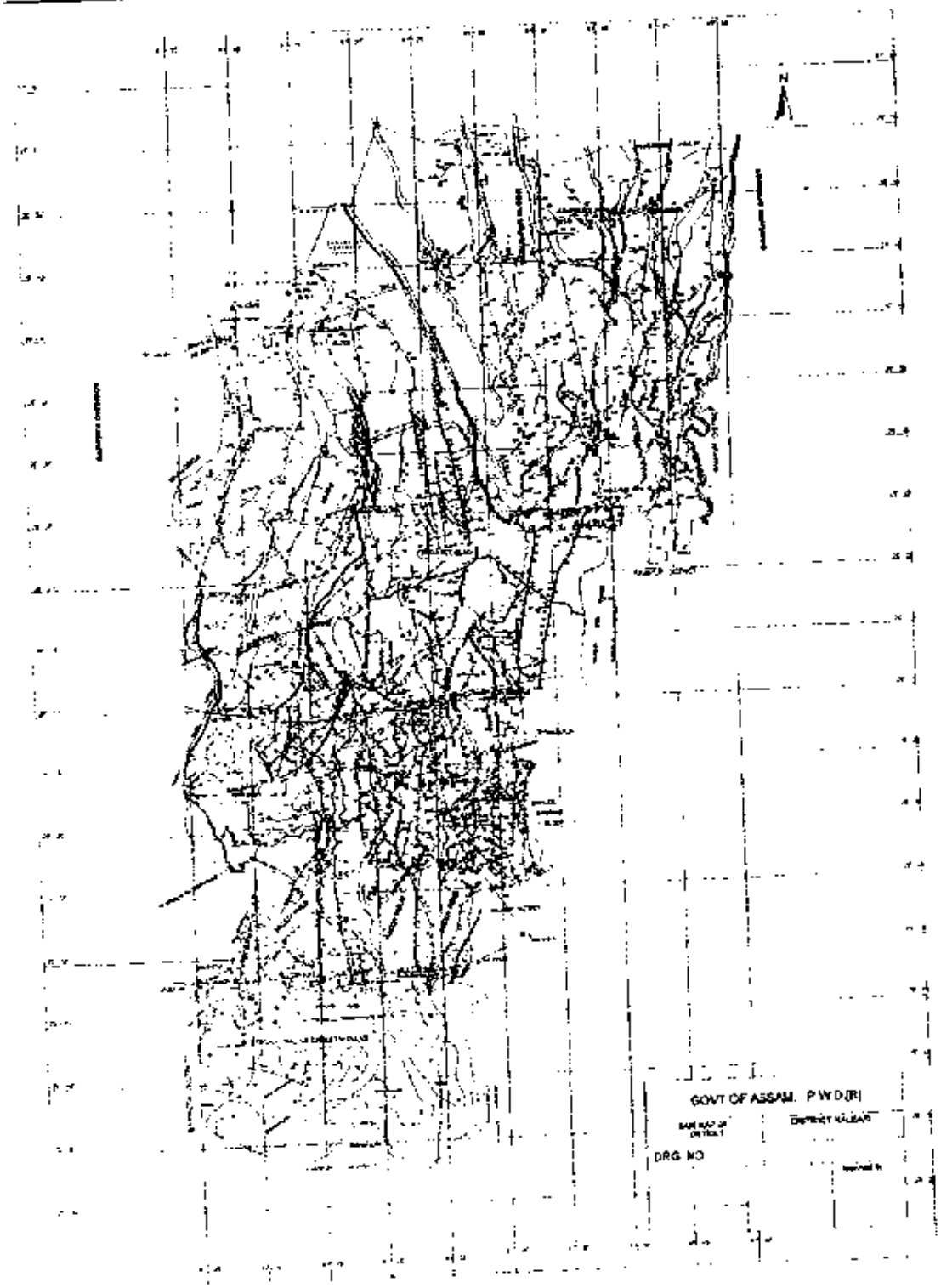
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DFA/115909 (Attachment : Annexure E_1636135449833_377.pdf)



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District Map



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Annexure F

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: 1 **State: Assam**

Name of Project: Improvement & Widening of Lokopriya Gopinath Bordoloi road, SH-3B from Ch. 0.00KM to Ch. 18.65 KM.

Project Description/Summary (not exceeding 200 words): The road connects 2 districts namely Kamrup(M) and Morigaon. The road startes from NH-37 at Chamata via Pabitora wildlife sanctuary and fiannly meets at Mayong. Toatl length of the road is 18.65 km. Pabitora wildlife sanctuary is famous of one horn Rhino and worls famous tourists place and Chanka is also famolus tourist place near bank of mighty river Brahmaputra. After construction of this road it will shorten the distance by around 20 km for the tourist coming from Guwahati and lower parts of Assam.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 85.50 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Pabitora wildlife sanctuary is famous of one horn Rhino and worls famous tourists place and Chanka is also famolus tourist place near bank of mighty river Brahmaputra.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	

S.No.	Items of Work	Cost proposed by State Govt. in concept paper	
	Road Works	32.12	
	RCC Bridge works	0.91	
	Protection works	20.7	
	Cross draianage work	19.95	

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	Utility Shifting work	0.5	
	Total	74.18	
	Contigency (@2%)	1.48	
	Total	75.66	
	Add 12% GST+1% Labor Cess	9.83	
	Total Cost of project	85.50	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore** **• Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: The TW, DoNER observed that** a) The MSA & CBR value is not mentioned to ascertain the thickness of different layers proposed in the road. (b) The weightage of the layers of exisiting road has not been considered while prepration of cost estimate. (c) The length of the RCC Bridges and culverts has not been deducted in the length of the road while prepration of cost estimate. (d) The lump sum provision @ Rs. 3.20 Crore on account of road furniture has been taken which seems on higher side. (e) The provision @ 2% on account of contingency has been taken. Program division may like to see.		

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7	**Important observations/comments of Prog. Division**
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.

(Dated Signature & Name of
Under Secretary concerned)

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3

GOVERNMENT OF ASSAM
PUBLIC WORKS DEPARTMENT

PWD

Concept Paper

for

Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH-3 B from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)

NAME OF DISTRICT : - MORIGAON & KAMRUP(M)

NAME OF LAC : - Jagiroad & Dispur

ESTIMATED COST = Rs.8550.17 LAKHS
LENGTH=18.65 KM

NAME OF DIVISION:
PWSD, Morigaon District Territorial Road Division

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Non Duplicacy Certificate

Certified that the project / scheme or any other part there of mentioned below are neither proposed nor taken up under any other schemes/ programmers like NLCPR / NEC / NABARD / MLALADs / MPLADs / PMGSY / Economic Importance & Inter State connectivity etc. nor these shall be proposed for such schemes in future

Sl No	Name of Scheme	Amount (Rs in Lakh)
1	Improvement & Widening of Lokopriya Gopinath Bordoloi Road .SH-3 B from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)	**Rs.8550.17**

Rupees(Eighty five crore fifty lakh and seventeen thousand) only.

(Er J C Das)
Executive Engineer, PWD(R)
Morigaon District Territorial Road Division

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CERTIFICATE OF ROAD CATEGORY

This is to Certify that the Lokopriya Gopinath Bordoloi (LGB Road) is SH-3 B as per PWD road register available in this Division is proposed under NESIDS Project for the year 2021-22.

(Er J C. Das)
Executive Engineer, PWD(R)
Morigaon District Territorial Road Division

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GOVT OF ASSAM

PUBLIC WORKS ROADS DEPARTMENT

Name of Circle : Nagaon Roads Circle, Nagaon.
Name of Division : Morigaon Dist Territorial Road Division, Morigaon.
Name of District : Morigaon.
Name of LAC : Jagiroad LAC & Dispur LAC

PROJECT CONCEPT PAPER

NAME OF PROJECT:- Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH-3 B from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)
Total L=18.65 KM including 2 Nos of Bridge
Amount: Rs.8550.17 Lakh.

- **INTRODUCTION:**

Assam, a state in the North Eastern Region, despite a number of existing petroleum ore, tea, plywood, cement factories and others, has been considered as basically pre industrial though a wide range of industries could develop. The state is endowed with rich sources of oil, gas, coal, limestone, forest wealth and extremely high hydropower potential offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and it's tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, fruits, flowers, herbs and others much of which could be processed and exported to the rest of the country as well as aboard, but the same will not be possible without removing the communication bottlenecks.

The population of the state is three crore and sixty-five lakh. Assam's name synonymous with fine tea, which is exported to states within main land India as well as aboard. There are in total 1012 Nos. of Tea Gardens in the Assam and the total annual production of Tea from them is about 4 Lakhs Tonne, compare to the national total of about 7.5 Lakhs. The major mineral resources of Assam are Coal, Crude Oil, Natural Gas, Lime Stone and others.

The state has a number of Wild life sanctuaries and National Park and Temples & Vaishnavi monasteries (Sattras) of international repute attracting tourist from within the country as well as aboard.

In spite of such high potential, the economy of the state is simple, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenario in Assam. The existing road network in the state, with inadequate capacity, poor riding quality, weak pavement, poor geometrics, submersible stresses, semi Permanent Tiber Bridges and others.

Apart from the deteriorated conditions of the road in the state, the mighty Brahmaputra bisects the state to North and South, serpentine rivers flow down the hills with high velocity, joined by rivulets and streams and finally meets with mighty river. In the process, the East-West Corridor has innumerable bridges gaps compared with that of the North South Corridor. Presently these bridge gaps are provided with Semi Permanent Tiber Bridges. Some of these Semi Permanent Tiber Bridges and some roads are in dire condition of disrepair and may result in loss to men and materials. Bridging Assam's rivers needs top most priority. It required a higher investment, which is beyond the per-view of the state. PMGSY envisages conversion of Semi Permanent Tiber Bridges to RCC Bridges to a length of 50 meter on Rural Road only.

- **SECTORAL POLICY:**

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Government of Assam has taken policy decisions to up-grade the fair weather roads to all weather roads and also to convert all the SPT Bridges to RCC Bridges, the works of road Improvement/ up-gradation have been taken up under schemes funded by the World Bank, NABARD and Government of India. But the Bridge which is beyond the per view of ARIASP of the World Bank, RIDF of NABARD and PMGSY. The proposed project "**Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH-3 B from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)"**<u>**may be included under NESIDS for the year 2021-22, as this project is not included in all other scheme as mentioned above.**</u>

- **SUMMARY OF PROJECT:**

This project is proposed Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH-3 B from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)

- **JUSTIFICATION FOR TAKING UP THE PROJECT:**

The implementation of this project will benefit not only the road user but also the socio-economical growth of the Morigaon District will be highly developed.

Implementation of this project will result –

1. The road connects two districts namely Kamrup (M) and Morigaon. The road starts from NH-37 at Chamata via Pabitora Wild Life Sanctuary and finally meets at Mayong. Total length of the road is 18 .65 km. Pabitora Wild Life Sanctuary is famous for one horn Rhino and world famous tourist Place and Chanka is also famous tourist place near bank of mighty river Brahmaputra. After construction of this road it will shorten the distance by around 20km for the tourist coming from Guwahati and lower parts of Assam.

2. Maximum utility people of the State as well as neighboring state as the most important marketing places like Morigaon, Jagiraod, Jhargaon , Mayong etc. and Nos. of schools ,Health centres will be benefited through this road.

3 The implementation of this project will result saving of vehicle operation cost time factor and man power. The Road will connect Pabitora Wild Life Sanctuary and Chanaka Tourist Place.

4. It will also result economic benefit to the locality as well as to tourism of the state . through land value increase, improve in commercial capability of the area, attracting major agricultural business. Wood & other Industrial business and others.

With this proposed work, there will be remarkable improvement in communication network of the Morigaon District

- **BENEFITS EXPECTED TO ACUTE AFTER THE COMPLETION OF THE PROJECT:**

The following are the benefits expected to acute after the completion of the project

1 To communicate the people of Dispur LAC, Jagiroad LAC area to connect the District Head Quarter and important place like Hospital, School, Colleges and others.

2. The marketing centres in Mayong Bazar, Jhargaon Bazar, Chamata etc., will attract good bussiness by this connectivity

- **CLIMATE:**

The following are the Climate condition as per record

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1. In summer, the temperature range is 30^0 C to 39^0 C, and in winter 14^0 C to 25^0 C
2. The rainfall is in between 1500 mm to 2000 mm.

- **AUTHORITY:**
- The Project Concept Paper is prepared as desired by the Chief Engineer , PWD(Roads) Assam, during his visit to Morigaon District on 20th Jan/2021.

- **PROVISION:**

  Length of the Road = 18.65 KM

- **IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM:**

The implementing agency will be the Public Works Department of the Government of Assam comprising of more than 1300 qualified and experienced graduate engineers who have to their credit, completion of 1230 Nos. of RCC bridges under various projects like World Bank, NABARD loan, NEC, Border Roads schemes and State Plan. The Executive Engineer of Morigaon District Territorial Road Division, Morigaon will be the Nodal Officer and will be the Engineer in charge of the project. This project is formulated under the direction of the Additional Director, Design under the control of the Chief Engineer, PWD (Roads with database from the Executive Engineer, Morigaon District Territorial Road Division and his team of Engineers.

1. **STATUTORY CLEARANCE:**

Since the road is existing one, clearance from Forest is not necessary, Pollution is non-entity as such permission from Pollution Control Board is not necessary.

2. **AVAILABILITY OF LAND:**

As the existing Right of way will be sufficient, to construct the road, hence, no need of land to be acquired.

3. **IMPLEMENTATION SCHEDULE:**

1. **PHYSICAL:**

a. Pre construction stage:

(i) Survey, soil investigation and design of the structures and

(ii) NIT and issue of work order 2 months.

b. Construction stage:

(i) Time of completion, 24 months

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2. FINANCIAL :

Year	Financial (In Rs. In Lakhs)
2021-22	500.00
2022-23	4000.00
2023-24	4050.17
Total=	8550.17 Lakh

MAINTENANCE ARRANGEMENT FOR THE PROJECT

Government of Assam has accepted the Road Maintenance Policy and a Road Board is formed creating a dedicated road fund. Maintenance of the bridge will be included in the subjects of the Road Board.

- **PROJECT FORMULATION PROCESS:**

Once this concept paper is accepted in principle, consultancy will be engaged for subsoil investigation, detail survey, design and estimation of the road. The P.W.D. Engineers will do the detail survey and estimate will be framed accordingly

- **BLUE PRINT/DESIGN:**

The design of the road will be in accordance with IRC code of practices and ISI and ISO Quality Management systems. Detail design of roads will be submitted along with DPR as IRC code of Practice

- **RATES:**

The rates adopted in this Concept papers are on the basis of schedule of Rates for Roads, Bridges and Culverts works of state Roads for all Divisions under P.W.D. (Roads), Assam for SH & MDR for 2018-19.

Junior Engineer, PWD
Morigaon Dist Territorial Road Divn

Asstt. Executive Engineer
Morigaon Territorial Road Sub-Divn

Executive Engineer, PWD
Morigaon Dist Territorial Road Divn.

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COST ESTIMATE : L=18.65 KM.

Name of Work: Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH-3 B from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)

SOR 18-19	Item of Work	Quantity	Unit	Rate (in Rs.)	Amount(Rs.)
	(A) ROAD WORKS				
1/2.3(i) A	Clearing and grubbing	15.55	Hect	47368	736572.40
2/3.16(a)	Earth work in core	134280	cum	238	31958640.00
3/3.18(a)	Earth work in Subgrade & Earthen shoulder.	83925	cum	290	24338250.00
4/4.1(A)	Construction of GSB-II	15386.3	cum	3063.12	47129930.10
5/4.12/406	Providing WMM	15386.3	cum	4667.72	71818706.85
6/5.1(B)	Providing Prime coat	102575	sqm	48	4923600.00
7/5.2/(I)(c)	Providing Tack coat	102575	sqm	13	1333475.00
8/5.6/504 (b)(A)(ii)	Providing OBM	6154.5	cum	10080.648	62041348.12
9/5.8/509©(a) (ii)	Providing BC	4103	cum	10944.872	44906809.82
10	Providing Road furniture.	L/S			32000000.00
				A=Rs.	**321187332.28**
	(B) RCC Bridge works				
11	Construction of RCC Bridge (8UG) Br.No. 10/1	180	Rm	900000	162000000
12	Construction of RCC Bridge (8UG) Br.No. 15/1	50	Rm	900000	45000000
	(C) Protection work			**B=Rs.**	207000000
13/15.1	Restortion of Boulder apron	1500	cum	3805.8	5708700
14/15.5	Restortion of Filter Materials	400	cum	2970.12	1188048
15/15.4(i)A	Restortion of Boulder Pitching	800	cum	2763.8	2211040
				C=Rs.	**9107788**
	(D) Cross Drainage work				
16	Construction of Box cell culvert (4 x 4)	4	Nos	16000000	64000000
17	Construction of Slab culvert (2 x 2)	15	Nos	3000000	45000000
18	Construction of R.C.C. side drain(1.00x1.2m)	4000	Rm.	22630.19	90520760
				D=Rs.	**199520760**

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	(D) Utility Shifting Works				
22	Shifting of existing Electrical poles and transformers etc.				5000000
				E=Rs.	5000000
		Total=(A+B+C+D+E) Rs.			741815880.28
23	Add contigency 2%			E=Rs.	14836317.61

Total=Rs	756652197.89
Add(12%GST+1% L.CESS)=Rs.	98364785.73
Grand Total=Rs.	855016983.61
Say, =Rs	8,550.17 Lakh

Rupees(Eighty five crore fifty lakh and seventeen thousand) only.

14/04/2021

Junior Engineer PWD
Morigaon Dist Territorial Road Divn

Asstt Executive Engineer
Jagiroad Territorial Road Sub-Divn

14/4/2021

Executive Engineer PWD
Morigaon Dist Territorial Road Division.

Countersigned

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Name of Work:- Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH 3 8 from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)

(Quantity statement: L=18.65 km)

ROAD WORKS

1 Clearing and Grubbing	2 x	18650 x	2.5		=	93250 sqm
					=	15.55 Hect.
2 Earth work in core	1 x	18650 x	7.2		=	134280 cum
3 Earth work in Sub-grade & Earthen shoulder		18650 x	4.5		=	83925 cum
4 GSB-II	1 x	18650 x	5.5 x	0.15	=	15386.25 cum
5 WMM	1 x	18650 x	5.5 x	0.15	=	15386.25 cum
6 DBM	1 x	18650 x	5.5 x	0.06	=	6154.5 cum
7 BC	1 x	18650 x	5.5 x	0.04	=	4103 cum
8 Prime coat	1 x	18650 x	5.5		=	102575 sqm
9 Tack coat	1 x	18650 x	5.5		=	102575 sqm

Junior Engineer. , PWD
Morigaon Dist Territorial Road Divn.

Asstt. Executive Engineer
Jagiroad Territorial Road Sub-Divn

Executive Engineer,PWD
Morigaon Dist Territorial Road Divn

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Name of Work:- Improvement & Widening of Lokopriya Gopinath Bordoloi Road ,SH-3 8 from Ch.0.00 km to Ch.18.65 Km under NESIDS for the year 2021-22 under Morigaon District Territorial Road Division. (LAC: Jagiroad & Dispur)

PHYSICAL & FINANCIAL PHASING OF THE PROJECT YEAR-WISE:

PROJECT COST= 9996.83 Lakh

Items activities (mile stones)	2021-22	2022-23				2023-24			Total
	4th Qtr.	1st Qtr	2nd Qtr	3rd Qtr.	4th Qtr	1 st Qtr.	2nd Qtr	3rd Qtr.	
i) Physical									100%
ii) Financial (Rs. In Lakh)	500	1000	1000	1000	1000	1200	1500	1350.17	8550.17

26/04/2021

Junior Engineer , PWD
Morigaon Dist Territorial Road Divn.

Er. I. Ahmed
Asstt. Executive Engineer
Jagiroad Territorial Road Sub-Divn.

Er J C Das
Executive Engineer,PWD
Morigaon Dist Territorial Road Divn

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File No. Coord-14/8/2021-O/o US (NLCPR) (Computer No. 115860)
DFA/115909 (Attachment : Annexure E_1636135449833_377.pdf)

Name of Work: Improvement of 1) Lokopriya Gopinath Bordoloi (LGB Road, Ch.0.00 km to Ch.18 75 Km 2) Ouguri Chanaka Road (Ch.2.70 Km to Ch.6.20 km including 2 Nos Link road of length 500.00 m) 3) Construction of Br No 1/1 (at Boha) Dimaruguri Kamarpur Road to Maloibari & Br. No.1/1 (at Borpak) on Dimaruguri Kamarpur Road to Tetelia & 4) Construction of Br No.1/1 on Panbari Railway Station Connecting Road under NESIDS for the year 2021 22 under Morigaon District Territorial Road Division (LAC: Jagiroad & Dispur)

Rate analysis

Analysis of Rate for per cum

Sl. No	Item No as per Schedule	Item of work	Unit of work	Rate			Loose Quantity				Cost of carriage loose qty			Total cost of carriage (col 12+13+14)	Total cost of carriage(Col 7+15)	Remarks
				Rate as per SOR	Excess cost of Bitumen requir	Amount(Col. 5+6)		Kutcha Road	Unsurfaced road	Surfaced road	Kutcha road @Rs.31.30/cum/k	Unsurfaced road @Rs.20.00/cu	Surfaced road @16.00cum/km.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	4.29(ii)	GSB II	cum	1650	0	1650	1.28	0	0	69	0	0	1413.12	1413.12	3063.12	
2	4.12/406	WMM	cum	2429	0	2429	1.32		0	106	0	0	2238.72	2238.72	4667.72	
3	5.6/504 (b)(A)(ii	DBM	cum	7557	0	7557	1.488	0	0	106	0	0	2523.648	2523.648	10080.65	
4	5.8/509 (C)(a)(ii)	BC	cum	8389	0	8389	1.507	0	0	106	0	0	2555.872	2555.872	10944.87	
5	15.2	Boulder apron	cum	2961	0	2961	1.2	0	0	44	0	0	844.8	844.8	3805.8	
6	15.5	Filter Media	sqm	2069	0	2069	1.28	0	0	44	0	0	901.12	901.12	2970.12	
7	15.4(A)	Boulder pitching.	sqm	1919	0	1919	1.2	0	0	44	0	0	844.8	844.8	2763.8	

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For GSB

Amsoi Quarry to work site		
Quarry road (Katcha)	2	km
Amsoi to Jagiroad	32	km
Jagiroad to Bhakatgaon	8	km
Bhakatgaon to Mayong	22	km
Mayong to work site(avg.)	10	km
Total	74	km
Deduct 5Km. Initial lead	-5	km
	69	km

For WMM, DBM, & BC.

Amsoi Quarry to Plant		
Quarry road (Katcha)	2	km
Amsoi to Jagiroad	32	km
Jagiroad to Jorabat	40	km
Jorabat to Bornihat	5	km
Total	79	km
Deduct 5Km. Initial lead	5	km
	74	km

For WMM, DBM & BC.

HMP to work site		
HMP to Jorabat	5	km
Jorabat to Chamata	22	km
Chamata to work site(avg.)	15	km
		km
		km
Total	42	km
Deduct 10Km. Initial lead	-10	km
	32	km

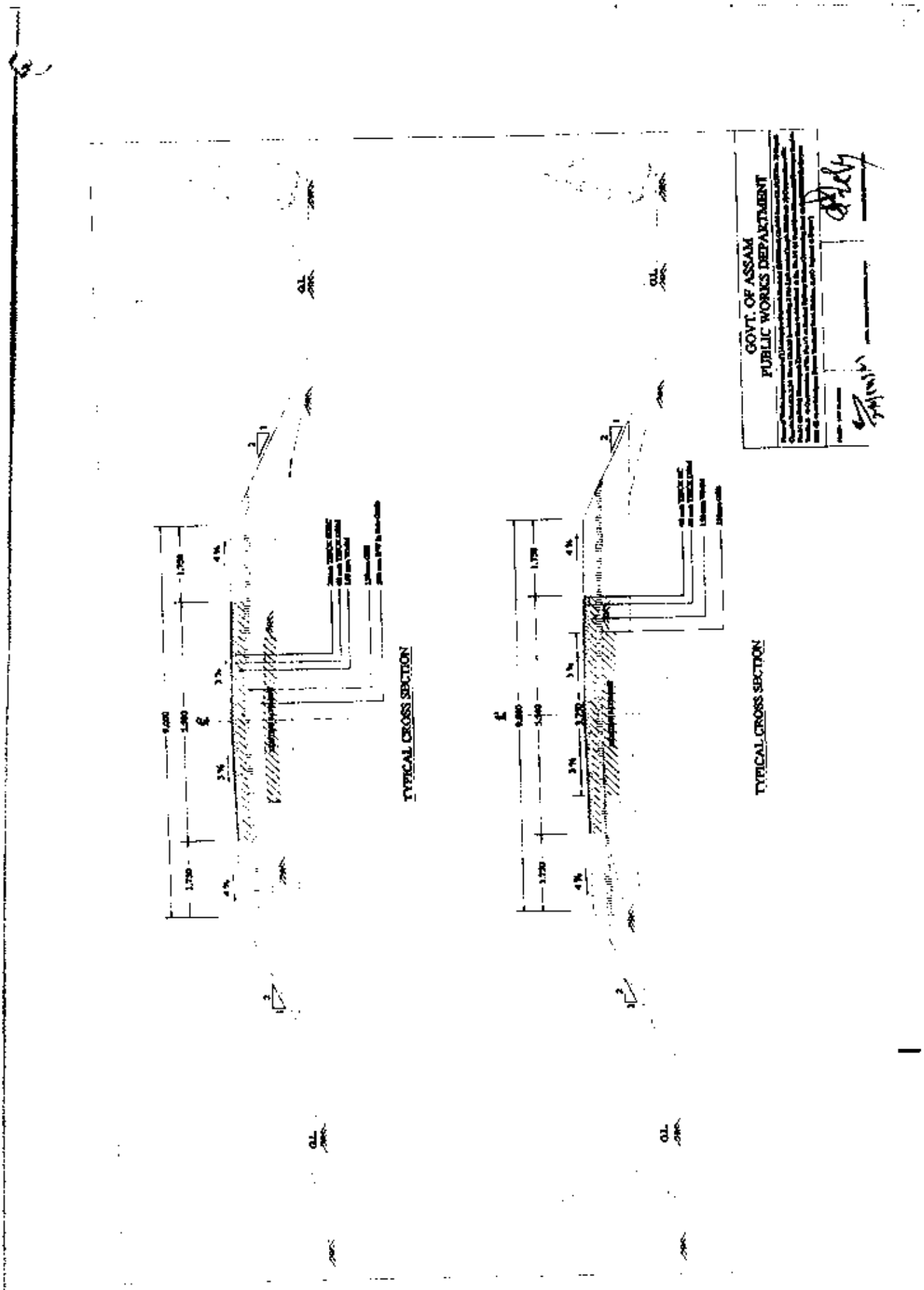
Total Lead 106 Km

Junior Engineer PWD
Morigaon Dist Territorial Road Div

Asstt Executive Engineer
Jagiroad Territorial Road Sub-Divn

Executive Engineer PWD
Morigaon Dist Territorial Road Divn

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Annexure G1

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: G1 **State: Assam**

Name of ProjectImprovement & Upgradation of Jamuguri to Nagsankar connected road (Ch. 0.00 KM to Ch. 12.50 KM) in Sonitpur District.

Project Description/Summary (not exceeding 200 words): The road connect NH-15 to Tourist spot Naggsankar Temple. The existing of the road is very deplorable. The existing width of the side road is unable to cater the fast growing traffic . The road connects large area comprising of many villages, health centres, railway stations, schools, markets with nearby semi urban place. Hence the road requires improvement and upgradation.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 20.09Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	The road connect NH-15 to tourist spot Nagsankar Temple.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	

S.No.	Items of Work	Cost proposed by State Govt. in concept paper	
1	Site Clearance	0.03	
2	Earthwork	1.77	
3	Base Course	8.77	
4	Bituminous Course	5.22	
5	Traffic Sign and Appearances	0.66	
6	Cross Draiange works	0.41	
7	RCC cover drain	0.93	

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		17.79	
8	Add 12% GST	2.13	
9	Add 1% Labour Cess	0.17	
	Grand Total	20.09	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER observed that (a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) The formation width is not mentioned in Concept Notes. (e) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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(4)

GOVT. OF ASSAM
PUBLIC WORKS DEPARTMENT (ROADS)

PROJECT CONCEPT PAPER
(PCP)

FOR

Improvement & Upgradation of Jamuguri to Nagsankar connected Road (Ch.0.00km to Ch.12.50km) in Sonitpur District under NESIDS for the year 2021-22

STATE - ASSAM

APPROXIMATE PROJECT COST - 20 090 Crores
Road length : 12.50 km

Name of Implementing Agency
PWD(Roads), Assam

GOVT. OF ASSAM
PUBLIC WORKS DEPARTMENT (ROADS)

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Non Duplicacy Certificate

Certified that the project Scheme or any other part thereof mentioned below is neither proposed nor taken up under any other schemes programme like NEC, NEIAMD, PMGSY, CRF, NLCPR RIDF, SCA, PMGSY (left out), RCIP-LASRP CM Package, Border Area Roads & Bridges Economic importance & Inter state connectivity etc but these will be proposed for such schemes in future.

Sl No	Name of Project	Estimated Cost
1	Improvement & Upgradation of Jamuguri to Nagsankar connected Road (Ch.0.00km to Ch.12.50km) in Sonitpur District under NESIDS for the year 2021-22	Rs 20.090 Crores

Executive Engineer (PWD)
Tezpur, Sonitpur & Nagaon
Territorial Road Division
Tezpur

Countersigned

Chief Engineer
Border Roads
Assam Circle

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Name of Project : Improvement & Upgradation of Jamuguri to Nagsankar connected Road (Ch.0.00km to Ch.12.50km) in Sonitpur District under NESIDS for the year 2021-22.

Total Length: 12.50 Km

ABSTRACT OF COST

Sl No	Item of Works	Amount in Rs
1	Site Clearance	[illegible]
2	Earth Work	[illegible]
3	Base Course Course	[illegible]
4	Bituminous Course	[illegible]
5	Traffic Signs & Appurtenances	[illegible]
6	Cross Drainage Work	[illegible]
7	RCC Cover Drain	[illegible]
	Total	[illegible]
	Add GST @ 12%)	2,13,54,693 [illegible]
	Add Labour Cess @ 1%)	[illegible]
	Grand Total =	[illegible]

Say Rs 20.390 Crores

Rupees Twenty Crores Nine Lakhs only

Executive Engineer, PCU
Tezpur Sootea & Rangajuri
Territorial Roads Division
Tezpur

Chief Engineer, PCU
Border Roads
Assam

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GOVERNMENT OF ASSAM
PUBLIC WORKS DEPARTMENT

Name of Project.:- Improvement & Upgradation of Jamuguri to Nagsankar connected Road (Ch.0.00km to Ch.12.50km) in Sonitpur District under NESIDS for the year 2021-22.

Total Road Length :- **12.50 Km**

Total Bridge Length :- **Nil**

Approximate Cost :- **Rs 2009.00 Lakhs**

PROJECT CONCEPT PAPER

1. INTRODUCTION: -

Assam is an important State in the geo-eco-political set up of India and gateway to the other States of the north East region and South East Asia. It is endowed with resources important amongst them being Oil, Forest and agricultural Products like Tea, Rice etc It has international boundaries with Bangladesh, Bhutan and is key to promote trade with those countries Assam is gateway to South East Asia and a strategic base for commercial activities. It is also close to China in the North. After opening of border trade between Myanmar and North East region of India, Assam has become a potential State for export business with China and other Asian Countries besides Bangladesh

The region consists of hilly terrain, the Brahmaputra Valley, the Barak valley and a number of lateral valleys. Heavy precipitation, extremely rich bio diversity, high seismicity rivers with highly fluctuating discharge, etc also characterize it The region despite a number of existing Teas, Ply wood, Cement factories, has been considered as basically free industrial though wide range of industries could develop The region is endowed with rich sources of oil Gas, Coal Lime stone Forest wealth and extremely high hydro power potential offering scope of rapid industrial development The valley portion consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon The land is ideally suited to produce a whole range of plantation crops, spices fruits flowers and herbs much of which could be processed and exported to rest of the countries as well as abroad but the same will not be possible removing the communication bottlenecks

The total quantity of rice produced in Assam is above 3(Three) million tones Assam's name is synonymous with fine tea, which is exported to states within India as well as abroad There are total 1012 numbers of tea gardens in Assam and the total annual production of tea from them is about 4 00 000 tones compared to the national total of about 7 50 000 tones The major mineral resources of Assam are Coal(5 50 000 MT) Crude Oil (45 5 4 000 MT) Natural Gas(12320000 million cum utilized quantities) and Lime stone(4 41 000 MT)(the figures indicating the annual quantities of production)

The State has a number of wild life sanctuaries and temples of international repute attracting tourists from within the country as well as abroad

In spite of such high potential the state's economy is still simple heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to poor communication scenario in Assam The existing road network in the region is

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passing with the inadequate capacity, poor riding quality weak pavement poor geometric, submersible stretches, semi-permanent timber bridges etc The place utility of raw materials cannot be provided and therefore time utility through speedy transport of finished products is not availed This has a serious impact in development and social activities like, education, health, promotion of tourism, postal services and other poverty alleviation programs since accessibility cannot be established, due to these bridge gaps other development activities could make no headway.

The total numbers of timber bridges in Assam are around 2400 number on different PWD Roads excluding National Highways.

A minimum amount of Rupees ten Crore is required annually to repair these bridges whereas our total budgetary provision for maintenance is rupees Twenty Crore only Some of these bridges are even washed away during recurring flood and are not rebuilt due to fund crunch Moreover, the density of forest in Assam is decreased to 28 % creating ecological and socio-economic problems and the Hon'ble Supreme Court has banned the felling of trees. As a consequence to non availability of timber to repair the bridges, most of the timber bridges in Assam are in dilapidated condition and some of these are non-existent The communication scenario in Assam is very gloomy with no through rural roads in the districts. The place utility of raw materials cannot be provided and therefore time utility through speedy transport of finished products is not availed This has a serious impact in development and social activities like, education, health, and promotion of tourism, postal services and other poverty alleviation programmes Since accessibility cannot be established, due to these bridge gaps, other development activities could make no headway.

The traffic on the state Highway varies from 200 PCUs to 4500 PCUs with the average being 1208 PCUs. The average traffic on Major District Road is 1166 PCUs with variation being from 300 PCUs to 3200 PCUs

The average composition of the slow moving vehicles on the state roads is as high as 65 % compared to their share on National Highway which is 40 % of the total traffic On the State Highways the average share of the buses is around 4 0 % whereas on Major District Roads the share of bus traffic is around 3 0 % The contribution of trucks on National Highways is around 23 0 % of the total traffic on National Highways whereas on State Roads their average share is around 9 0 %

Analysis of travel pattern of goods vehicular trips reveal that out of the total trips share of inter-district and intra-district trips were 28 percent and 21 1 percent respectively While share of inter-state movement with North-eastern States was 27 1 percent and 19.1 percent with rest of India International movement was 1 2 percent and through traffic with reference to Assam 3 6 percent Inter-district movement (41 3 %) is maximum in case of LCVs (light commercial vehicles) followed by HCVs (heavy commercial vehicle) and MAVs (multi axle vehicle) which is 27 8 % and 18 9 %, respectively Interstate movement with North eastern States is maximum by HCVs and that with other states (rest of India) by MAVs having percentages of 31 0 % and 40 5 % respectively

Analysis of travel pattern of passenger vehicles reveal that 13477 passenger vehicle trips were performed daily in the state Out of the total trips share of intra-district and inter-district trips was 49 6 percent and 33 4 % respectively While for inter-state movement with North Eastern State was 11 0 % and 4 0 % with rest of India international movement was 0 1 % and through traffic with reference to Assam was 1 9 %

The Non Lapsable Central Pool of Resources created from the unspent balance of the allocated expenditure of 10 % of the concerned central Ministries with the object of filling up the resource gap in creation of new infrastructure has now been considered

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as a potential source of fund for taking up works of replacement of SPT Bridges on important roads in Assam

The Bridges included in this project are out of those, which had not been included in PMGSY ARIASP, RIDF etc , and they have been selected on priority basis with the broad objective ensuring speedy development of infrastructure in the North Eastern region

2. SECTORAL POLICY

The major road & Bridge schemes under implementation in the state are Pradhan Mantri Gram Sadak Yajana (PMGSY) funded by the Govt. of India, Central Road Fund (CRF) funded by the Govt. of India, RIDF funded by the NABARD, ARIASP funded by the World Bank, Interstate Border Area Development Schemes, etc. Each of the above mentioned schemes have been embarked upon with specific objectives PMGSY envisage connectivity to all villages with population more than thousand by 2003 and connectivity to all villages with population more than five hundred by 2007 Non Lapsable Central Pool of Resources envisages balanced development in the country RIDF loan is sanctioned by NABARD on projects with an objective of development of rural infrastructure. ARIASP also envisage development of rural infrastructure for agricultural development For the roads important from other points of view, and beyond the purview of the above-mentioned schemes the State Govt has to consider other sources of fund

Now the Non Lapsable Central Pool of Resources Schemes introduced with the objective of filling up the resource gap in creation of new infrastructure It is now been considered as a potential source of fund for taking up specific major projects for improvement of roads and bridges considered on priority basis with the broad objective of ensuring speedy development of infrastructure in the North Eastern region

3. SUMMARY OF THE PROJECT

Improvement & Upgradation of intermediate lane road leading to tourist spot Nagsankar Temple under 12th Plan of NEC (NLCPR) Programme including approaches protection works, Subways etc

The estimated Cost Rs. 2009.00 Lakhs

The existing condition of the road is very deplorable and intensity of traffic increasing high day by day Hence the road require improvement and upgradation

4 JUSTIFICATION FOR TAKING UP THE PROJECT:

The road connect NH-15 to tourist spot Nagsankar Temple The condition of the road is very deplorable Due to non repair of the road for a long time owing to lack of fund there are numerous depressions and pot holes Further the existing width of the said road is unable to cater the fast growing vehicular traffic Traffic jam is a daily routin on this route which makes great problem specially for patients students and govt officials So widening of the road is almost necessary The local people are also demanding for widening and improvement of the road for hazzard free movement of vehicular

The proposed road have been identified as vital road required to be improve at present to goal up socio economic development of the State of Assam

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5. Benefits expected to accrue after completion of the project:

The road connect NH-15 to Tourist spot Nagsankar Temple and it also connect a large area comprising of many villages, health centers Railway station Schools, markets with nearby semi urban place Direct and speedy communication link will be established after improvement of the road that will increase the utility of several other roads in the respective districts

After commissioning of this road, there shall be a boost in the field of agriculture, trade & commerce

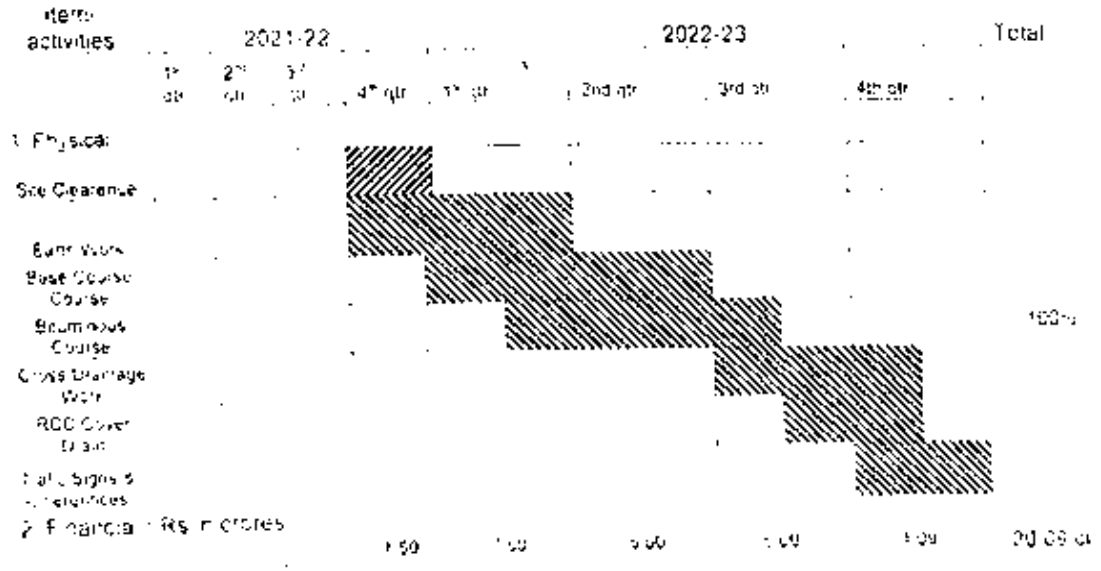
Physical activities to be taken up

The Road is proposed to be improved as intermediate lane carriage way width (5.50m) of proposed length 12.50 Km

6. Financial and Physical phasing of the Project year wise:

The physical activities are planned as below

Approximate Project cost Rs 20.090 Crores



7. IMPLEMENTATING AGENCY AND PROJECT FORMULATION TEAM

The implementing agency will be the Public Works Department of the Govt. of Assam comprising of more than 1300 qualified and experienced graduate Engineers who have several projects of road and bridge construction road improvement etc under various projects like World Bank NABARD Loan NEC Border Roads Schemes and State Plan

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The Executive Engineer of Guwahati NEC Division will be the Nodal Officer and will be the Engineer-in-Charge of the Project

The progress of this project will be reported on a quarterly basis on the Proforma (QPR) prescribed The QPR will be prepared by the Executive Engineer, PWD Tezpur Sootea & Rangapara Territorial Road Division, Tezpur at the end of each quarter under report

Third Party Quality Control consultant & monitoring agencies will be engaged for maintaining the quality of the work and timely completion of work

The required information on progress of report will be submitted to the Government of Assam through the C E, NEC works, Assam, to enable the same to hold quarterly meeting to review the progress of implementation of the ongoing projects

The utilization certificate of the fund received will also be furnished as required before subsequent release of fund.

Wide publicity to the project will be given by the department through signboard at project site and advertisement in News Papers etc.

7.1 STATUTORY CLEARANCE:

Since work will be on existing road alignment, clearance from forest is not necessary. Pollution is non-entity; as such permission from Pollution Control Board is not necessary.

7.2 AVAILABILITY OF LAND:

Land acquisition is not at all necessary, as the construction will be on the existing road alignment, which is presently on PWD land.

7.3 Physical –

7.3.1.a Pre-construction Stage –

(i) Survey and Preparation working drawings & estimates 45(forty five) days

(ii) NIT and issue of Work Order: 30 (thirty) to 45 (forty five) days.

7.3.1.b Construction Stage –

(iii) Commencement of work. 15(fifteen) days from the date of FWO

(iv) Time of completion: 15 (Fifteen) months

7.3.2. Financial:

Year	Financial Rs in Lakhs
2021-22	150.00
2022-23	1859.00

Rs 2009.00 Lakhs

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8 PROJECT FORMULATION PROCESS

[illegible] Consultancies will be engaged [illegible] designs and estimation of [illegible] Investigation, Detailed Project Report, Particulars, designs and estimation of [illegible] Detailed Project Report will be submitted.

9 BLUE PRINT DESIGN

The design of the Roads will be done [illegible] as per relevant IRC Code of [illegible] Design shall be ready to the stage of execution after sanction of [illegible] is received.

10 Rates

The DPR has been prepared as per the Schedule of rates for Roads, Bridges and Buildings as per [illegible] Assam for the year 2018-19 and [illegible] Schedule items are as per Analysis market rates with appropriate [illegible]

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Annexure H

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: H **State: Assam**

Name of Project: Improvement & Upgradation of Maibong Semkhor road (Ch. 0.00 KM to 28.32 KM) in Dima Hasao District.

Project Description/Summary (not exceeding 200 words): Due to inadequate fund, the maintenance work has not been undertaken on this road for last 5 year resulting in the damages and disruption of traffic movement. The proposed rad in identified as vital road link for the district required to be constructed at present to gear up socio economic development of Assam. It is proposed to improve and upgrade the existing Maibung Semkhor road from single lane road to two lane (7 carriageway) road with a formation width of 10m including 1m side drain.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 78.11 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned in CP.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.

1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**
	Road works	52.32
	CD works	1.99
	Bridge works	1.46
	Rroad safety works	1.23
	Miscellaneous works	6.26
	DPR preparation	0.24
	Total	63.5

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	Add Hill Area premium @10%	6.35	
	Add 12% GST	7.62	
	Add 1% Labor cess	0.63	
	Grand Total	78.1	
	Grand Total	78.11	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore** **• Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: TW, DoNER observed that :** The TW, observed that the thickness of pavement layers like GSB, WMM, DBM and BC has been considered as per IRC 37: 2001 for CBR value 6% and MSA 5. But the latest code is IRC 37: 2018. State Govt. may be asked to adopt the same and prepare cost estimate accordingly.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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5

GOVT. OF ASSAM
PUBLIC WORKS DEPARTMENT (ROADS)

PROJECT CONCEPT PAPER (PCP)

FOR

Improvement & Upgradation of Maibang Semkhor road (Ch 0.00km to Ch 28.322 km) in Dima Hasao district under NESIDS of MDoNER Programme

Length of Road – 28.322 km
Number of RCC Bridges - 2 nos.
Number of Culverts – 77 nos.

STATE :- ASSAM.

ESTIMATED COST :- **Rs.78.11 Crores**

Name of Implementing Agency
PWD (Roads), Assam

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Name of road: **Improvement & Upgradation of Maibang Semkhor Road (Ch. 0.00 km to CH. 28.322 km) in Dima Hasao district under NESIDS of MDoNER Programme.**

Total Lenth = [illegible]

ABSTRACT OF COST

	1	ROAD WORKS	Rs.52,32,47,475.00 Lakhs
	2	CD WORKS	Rs.198.64 Lakhs
	3	BRIDGE WORKS	Rs.145.75 Lakhs
	4	ROAD SAFETY WORKS	Rs 123.05 Lakhs
	5	MISCELLANEOUS WORKS	Rs.626.56 Lakhs
	6	DPR PREPARATION	Rs 24.07 Lakhs
		Total =	Rs.6350.54 Lakhs
		Add GST (@12%)	Rs.762.06 Lakhs
		Add Labour Cess (@1%)	Rs.63.51 Lakhs
		Add Hill Area Premium (@10%)	Rs.635.05 Lakhs
		Grand Total =	Rs.7811.164 Lakhs

Say Rs.78.11 Crores

(Rupees Seventy Eight crore Eleven lakh) only

(B. Langthasa)
Assistant Executive Engineer, PWD (R&B)
N. H. Survey Sub-Division, Maibang
Dima Hasao, Assam

(B. Singha)
Executive Engineer, PWD (R&B)
Maibang Division, Maibang
Dima Hasao, Assam

Chief Engineer, P.W.D.
Border Roads and NEC Works
Assam Secretariat (Dispur)

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[illegible]

[illegible]

[illegible]

PROJECT CONCEPT PAPER

1. INTRODUCTION

Assam is an important State in the geo-eco-political set up of India and gateway to the other States of the north East region and South East Asia. It is endowed with resources, important amongst them being Oil, Forest and agricultural Products like Tea, Rice etc. It has international boundaries with Bangladesh, Bhutan and is key to promote trade with those countries. Assam is gateway to South East Asia and a strategic base for commercial activities. It is also close to China in the North. After opening of border trade between Myanmar and North East region of India, Assam has become a potential State for export business with China and other Asian Countries besides Bangladesh.

There are 33 district in Assam and Dima Hasao is one of them. Dima Hasao is an Autonomous Hill District of Assam and the District is situated at southern part of Assam & is bounded by Nagaland & Manipur state in the east, Cachar district of Assam in the south, Meghalaya state & the part of Karbi-Anglong district in the west & another part of Karbi-Anglong & Nagaon district in the north. It has an area of 4890 sq. k.m. which is 6.24 percent of the total area of the state. North Cachar comprises of two sub- divisions viz Haflong and Maibang . There are two Revenue Circles (Tehsils), viz – Haflong and Maibang. It is predominantly a forest area and agricultural practices of paddy cultivation are done on jhuming cultivation system in dry hilly land in the plain terrain areas depending mainly on rainfall which is also irregular. Some horticultural crops cultivation, viz. pineapple, orange, papaya and banana occupies a vital role in agricultural economy of the district. It also offers a unique blend of tourist attraction ranging from the historical Stone house & temple of Kachari king at Maibang that once flourished as the capital of Dimasa, Kachari Kingdom, World wide famous for bird mystery (Birds Harakiri) at Jatinga, a thrilling waterfall, rolling over the rocks of Panimoor etc.

Maibang is located geographically at 92°08' 22"E Longitude and 25°17'42"N Latitude and the proposed road Maibang Semkhor road comes under Maibang revenue circle. This road connects Maibang with Semkhor. The general development of these Villages along this road is very poor. The Government objective is to improve the quality of life by alleviating Poverty, unemployment and improving literacy. A basic road network is considered essential for these purposes. It is worth mentioning here that every year the natural calamity plays havoc in the Civil Sub Division and the Road infrastructure is the worst affected.

Improvement of this road will also improve their basic amenities, educational facilities, medical facilities and overall improvement of living standards and above all improvement in employment opportunities due to construction of the road.

2. SECTORAL FUNDING

The major traditional source of funding road & bridge works include schemes like Pradhan Mantri Gram Sadak Yajana (PMGSY) funded by the Govt. of India, Central Road Fund (CRF) funded by the Govt. of India, RIDF funded by the NABARD, ARIASP funded by the World Bank, Interstate Border Area Development Schemes, etc. Each of the above mentioned schemes have been embarked upon with specific objectives. PMGSY envisage connectivity to all villages with population more than thousand in the first phase and more than five hundred in second phase. Non Lapsable Central Pool of Resources envisages balanced development in the country. RIDF loan is sanctioned by NABARD on projects with an objective of development of rural infrastructure. ARIASP also envisage development of rural infrastructure for agricultural development. For the roads important from other points of view, and beyond the purview of the above-mentioned schemes, the State Govt. has to consider other sources of fund.

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However, the quality of the roads is lot to be desired. The recent implementation of Assam Road Asset Management System (ARAMS) has brought out several deficiencies in the secondary road network including State Highways (SH) and Major District Roads (MDR). The remaining life of majority of the roads in not more than 2 years. Therefore, the long-term asset management plan necessitates reconstruction and improvement of roads with long design life, geometric improvement to bring it to proper standards, improving drainage along the roads, improving shoulders and providing paved shoulders where necessary, road safety improvement, etc. so as to build the road infrastructure comparable with the National Highways and nearby south and southeast Asian countries. Road stretches crossing urban areas may also require upgrading to a four lane divided cross section, service roads, RCC drains, sidewalks and parking. Bypasses may also be required in some cases to avoid urban congested stretches.

This project funded through NESIDS of MDoNER has been embarked upon with the objective of development of Tourism, Health and Education Sector etc. filling up the resource gap in improvement of Major District Roads (MDR). It is now been considered as a potential source of fund for taking up specific major projects for improvement of roads and bridges considered on priority basis with the broad objective of ensuring speedy development of infrastructure in the North Eastern region.

3. JUSTIFICATION FOR TAKING UP THE PROJECT:

The basic data of the road is:

1. Pavement Width
   - From Ch 0.00 km – Ch 6.00 km - 3.75 m. (Black Top road)
   - From Ch 6.00 km – Ch 28.322 km - 3.00 m (Gravel Road)
2. Pavement Road Condition
   - Average PCI - 2
   - Average Roughness - 16 IRI
3. Pavement Composition
   - Existing Surface Layer Thickness

Layer	Thickness	Material
SURFACE COURSE	15	PC
BASE COURSE	150	WBM
SUB BASE	0	NA

4. Bridge Condition
   - Distribution of bridge condition (Minor)

Nos.	Good	Fair	Poor	Very Poor
2		2		

   - Distribution of bridge condition (Timber/Steel)

Nos	Good	Fair	Poor	Very Poor
7		2	1	5

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5 Culvert Condition

- Distribution of culvert Condition

Nos	Good	Fair	Poor	Very Poor
76			76	

6 Present Traffic

- Latest Traffic Data 398 CVPD
- Traffic projection 1332CVPD

7 Last Resurfacing – Year 2018 (From Ch 0.00 km to Ch 6.00 km)

8. Last Improvement - Year 2005

Due to inadequate fund, the maintenance work has not been undertaken on this road for last 5 year resulting in the damages and disruption of traffic movement.

The proposed road is identified as vital road link for the district required to be constructed at present to gear up socio economic development of the State of Assam.

4. SUMMARY OF THE PROJECT:

The project is conceived with following works:

Sl No.	Description
1	It is proposed to improve and upgrade the existing Maibang Semkhor road from single lane road to two lane (7m carriageway) road with a formation width of 10m including 1m side drain. There are 2nos of minor bridges on this road, most of which are single lane, and hence new construction with 7.5 m carriageway is proposed. All the culverts present on these roads need to be replaced with new construction. Road safety items, are incorporated in the proposal Assuming the design CBR is 6% and the design traffic is 5 million standard axles the thickness pavement layer as per IRC 37:2001 is 535mm. Proposed Pavement Layer for new construction in widening

Chainage From (Km)	Chainage To (Km)	Bituminous concrete (BC) (mm)	Dense Bituminous Macadam (DBM) (mm)	Granular Base (WMM) (mm)	Granular sub Base (GSB) (mm)	Total Thickness (mm)
0.00	6.0	25	50	250	210	535

Proposed Pavement Layer for overlaying over existing carriageway

Chainage From (Km)	Chainage To (Km)	Bituminous concrete (BC) (mm)	Dense Bituminous Macadam (DBM) (mm)	Granular Base (WMM) (mm)	Total Thickness (mm)
0.00	6.00	25	50	125	200

Proposed Pavement Layer for new construction

Chinage From (Km)	Chinage To (Km)	Bituminous Concrete (BC) (mm)	Dense Bituminous Macadam (DBM) (mm)	Granular Base (WMM) (mm)	G.S.B. Total Thickness (mm)	Total Thickness (mm)
6.00	28.322	25	50	250	210	535

The estimated cost of the project is **Rs.7811.164 Lakhs**

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5 BENEFITS EXPECTED TO ACCRUE AFTER COMPLETION OF THE PROJECT:

This road connects a large area comprising of many villages, Health center, Schools, Colleges, Markets places to National Highway, Railway Stations and neighboring State Nearland.

Improvement of this road will also improve their basic amenities, educational facilities, medical facilities and overall improvement of living standards and above all improvement in employment opportunities due to construction of the road.

6. FINANCIAL AND PHYSICAL PHASING:

The physical activities are planned as below.

Physical Work Plan–

Pre-construction Stage –

- Survey and Preparation working drawings & estimates: 45(forty five) days
- NIT and issue of Work Order: 30 (thirty) to 45 (forty five) days.

Construction Stage –

- Commencement of work: 15(fifteen) days from the date of FWO
- Time of completion: 24 (twenty four) months

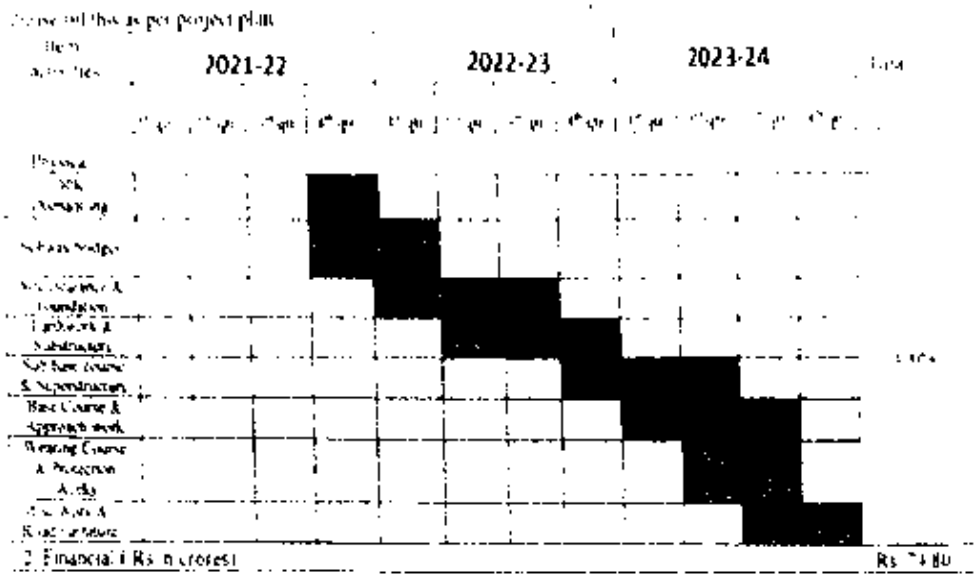
Financial:

Year	Financial Rs. In Lakhs
2021-22	1562.23 20%
2022-23	31.24 40%
2023-24	31.24 40%

Rs. 7811.16 Lakhs

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The physical activities are planned as below



7. IMPLEMENTATING AGENCY AND PROJECT FORMULATION TEAM:

The implementing agency will be the Public Works Department of the Govt. of Assam comprising of more than 1300 qualified and experienced graduate Engineers who have several projects of road and bridge construction, road improvement, etc under various projects like World Bank, NABARD Loan, NEC, Border Roads Schemes and State Plan.

The Executive Engineer of Maibang Division will be the Nodal Officer and will be the Engineer-in-Charge of the Project

The progress of this project will be reported on a quarterly basis on the Proforma (QPR) as prescribed by the government. The QPR will be prepared by the Executive Engineer, PWD, concerned Division at the end of each quarter under report. Third Party Quality Control consultant & monitoring agencies will be engaged for maintaining the quality of the work and timely completion of work.

The required information on progress of report will be submitted to the Government of Assam through the Chief Engineer (Roads), Assam, to enable the same to hold quarterly meeting to review the progress of implementation of the ongoing projects. The utilization certificate of the fund received will also be furnished as required before subsequent release of fund. Wide publicity to the project will be given by the department through signboard at project site and advertisement in News Papers etc.

8. STATUTORY CLEARANCE:

Since work will be on existing road alignment, clearance from forest is not necessary. Pollution is non-existent, as such permission from Pollution Control Board is not necessary.

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9. **AVAILABILITY OF LAND:**

No Land acquisition is required as the construction will be within the existing right of way which is presently on PWD land.

10. **PROJECT FORMULATION PROCESS:**

Once this concept paper is accepted in principle, consultancies will be engaged for preparation of Detailed Project Report (DPR) including detailed survey of road works, sub-soil investigation, hydraulic particulars, designs and estimation of the proposed road and bridges.

11. **BLUE PRINT/DESIGN**

The Design of the road and RCC Bridges will be done in conformity with relevant IRC Code of Practices. Detailed working drawing for the bridges will be prepared for execution after sanction on the PCP is received.

12. **RATES**

This PCP has been prepared as per the Schedule of rates for Roads, Bridges and Culverts works for all Divisions under PWD, Assam for the year 2018-19 and Analysis thereof. Non schedule items are as per Analysis/market rates with approval from higher authority.

Executive Engineer, PWD (R&B)
Maibang Division, Maibang,
Dima Hasao, Assam

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ESTIMATE

Project road: Improvement & Upgradation of Maibang Semkhor road (Ch 0.00km to Ch 28.322 km) in Dima Hasao district under NESIDS of MoDONER programme

Road Length = 28.322 km

Item No.	Description	Unit	Quantity	Rate	Amount
I. CIVIL WORKS					
	ROADS WORKS				
	SUB-HEAD 1:DISMANTLING AND SITE CLEARANCE				
1.01	Clearing and grubbing road land, road embankment, drain, cross drainage etc. complete as per Technical Specification Clause 201.	Hectare	16.99	47,368.00	8,04,933.90
1.02	a) Cutting of trees, including cutting of trunks, branches and removal of stumps including stumps of any girth left over after trees have been cut by any other agency, roots, stacking of serviceable material with all lifts and lead and earth filling in the depression/pit as per Technical specification clause 201. Logs to be stacked as per relevant Clause of the EMP				
	(i) Girth above 300 mm upto 600 mm	No.	25	225.00	5,625.00
	(ii) Girth above 600 mm upto 900 mm	No.	10	401.00	4,010.00
	(iii) Girth above 900 mm upto 1800 mm	No.	8	783.00	6,264.00
	b) Credit for salvage value of stumps, roots and branches etc.				
1.03	Scarification of existing road surface without disturbing the base including disposal of unsuitable material with all lead and lift or directed by the Engineer and clearing complete as per relevant clause of 501.8.3.2	sqm	22,500.00	12.00	2,70,000.00
1.04	Dismantling including disposal of unserviceable material and/or salvaging the useful material complete as per Technical Specification Clause No. 202.				
	(a) Plain cement concrete	Cu m	1544.40	519.00	8,01,543.52
	(e) All type of Hume Pipes (iii) above 900 mm	Rm	1140.00	377.00	4,29,780.00
	Sub-Head Total - Site Clearance and Dismantling				**23,22,154.00**
	SUB-HEAD 2: EARTH WORK				
2.01	Excavation in Hill Area in Soil by Mechanical Means (Excavation in soil in hilly area by mechanical means including cutting & trimming of side slopes)	cum	579209.53	181.00	10,48,36,924.75
2.02	Construction of Embankment with materials deposited from roadway cutting (Construction of embankment with approved materials deposited at site from roadway cutting & excavation from drain and foundation of other structures graded and compacted to meet requirement of table -3002)	cum	81099.28	103.00	83,53,226.05

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Item No	Description	Unit	Quantity	Rate	Amount
2.02	Construction of Subgrade and Earthen Shoulders (Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required shape and compacted to meet requirement of table (300-2) (a). (Including cost of testing of materials at site and laboratory as directed by the deptt)	cum	5671[illegible].37	2[illegible].00	1,64,86,[illegible].17
2.03	Construction of unlined surface drains in soil to specified lines, grades, levels and dimensions as per detail drawings to the requirement of technical specifications cl. 301 and 309 Excavated materials to be used in embankment with all lead and lift using mechanical means	Rm	26000.00	78.00	15,00,[illegible].00
Subhead Total - Earthwork					**12,91,36,623.00**
SUB-HEAD 3: SUB-BASE AND BASE COURSE (NON BITUMINOUS)					
3.01	Construction of granular sub-base by providing coarse graded material, mixing in a mechanical mixed plant at OMC, carriage of mixed materials to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per Technical Specification clause 401, Table 400-1 Grading II Material	cum	38219.26	2260.00	8,63,55,188.00
3.02	Providing, laying, spreading and compacting Wet Mix Macadam both for widening/ full width base complete as per Technical specification Clause 406.	cum	**48252.47**	3358.00	**16,16,95,994.00**
Total Subhead-3-SUB-BASE AND BASE COURSE (NON BITUMINOUS)					**24,80,51,182.00**
SUB-HEAD-4: BITUMINOUS BASE & WEARING COURSE					
4.01	Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of the road surface and spraying primer @ 0.60 to 0.90 Kg/sqm With bitumen emulsion CSS-1h using mechanical means as per technical specification clause [illegible]	sqm	2042[illegible].62	30.00	61,26,[illegible].60
4.02	Providing and applying tack coat with bitumen emulsion CRS-1using emulsion pressure distributor on the prepared bituminous/granular surface treated with primer including cleaning etc. complete as per technical specification clause 503 with mechanical broom a) on granular surface at 0.25-0.30 kg/sqm	sqm	2042[illegible].62	10.00	20,42,[illegible].20
4.03	Providing and laying Dense Bituminous Macadam course of table 500-10 of technical specifications using (60/70) grade bitumen complete as per technical specification clause 507	cum	**5105.04**	8521.00	**4,85,69,351.00**
4.04	Providing and laying bituminous concrete wearing course complete with refinery produced modified bitumen confirming to PMB 40 as per IRC -SP 51-2002 as directed by the Engineer and as per technical specifications 509 and 521	cum	[illegible]	[illegible]	[illegible]
Total Subhead-Bituminous Base and Wearing Course					**14,37,37,516.00**

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Item No	Description	Unit	Quantity	Rate	Amount
SUB HEAD-5: TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES					
5.01	Providing and erecting of retro-reflectorised cautionary mandatory and informatory sign as per IRC 67 made of high intensity encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick fixed on a mild steel angle iron frame 40 mm x 40 mm x 5 mm supported on a mild steel angle iron post 75mm x 75mm x 6mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing and sign. (All the steel work must be Tata/Sail or any other approved brand.)				
	a) Mandatory/Regulatory Signs				
	i) 60 cm circular	No	39.00	4,052.00	1,45,872.00
	ii) 90 cm octagonal	No.	8.00	5,397.00	43,176.00
	b) Cautionary Warning Signs	No	14.00	7,483.00	1,04,762.00
5.02	Direction and place identification sign upto 0.9 sqm size board Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area not exceeding 0.9 sqm fixed on a mild steel single angle frame of 40mmx40mmx5mm supported on a mild steel angle iron post 75mm x 75mm x 6 mm Firmly fixed to the ground by means of properly design foundation with M-15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification (All the steel work must be Tata/Sail or any other approved brand) complete as per drawing and as directed by the Engineer as per technical specification clause 801	sqm	10.80	13,243.00	1,43,024.40
5.03	Providing and fixing in position tubular gantry mounted Overhead/ cantilever signs by erecting mild steel framed stretles and trusses properly fixed with RCC column foundation as per detail design and drawing including pruning and painting with two coats of epoxy paint and fixing sign boards made out of 2mm thick aluminum sheet, face to be fully covered by high intensity grade white retro reflective sheeting of encapsulated lens type. The background/ border/ symbols/ legend/ arrows shall be made by transparent overlay film of desired colour as per sign details except those in black which shall be of non reflective type complete as per IRC-67-2001 and Technical Specifications Clause 801& 802 12M Span Tubular Gantry mounted Overhead Sign	No	1.00	4,66,082.00	4,66,082.00

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Item No	Description	Unit	Quantity	Rate	Amount
5.03	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of Section-800 WHITE OR YELLOW as directed by the Engineer				
	a) Lane/ centre line/ edge line marking/ transverse marking/ rumble strip marking etc.	sqm	3018.00	876.00	89,22,168.00
	b) direction arrows, lettering etc	No	367.00	1,095.00	6,29,865.00
5.04	Painting with two coats after cleaning the surface with synthetic enamel road marking paint (grade-I as per IS-164) in all shades on new plastered/ concrete surfaces alternate bands white and black or as directed by the Engineer and as per technical specification section 800	sqm	552.00	60.00	33,120.00
5.05	Providing and fixing road studs/RPMs for peonanent marking comply with standard EN1463 and BS 873 (Part:IV) according to the CIL requirements to ASTM D 4280 standard	No	1163.00	480.00	5,58,240.00
5.06	Providing and fixing retro-reflectorised Road delineators complete as per drawing and Technical Specification section 800 and as directed by the Engineer.	No	17.00	480.00	8,160.00
5.07	Providing reinforced cement concrete M15grade kilometer stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc as per relevant clauses of Section-800 of specifications.				
	i) 5th Km. Stone (Precast)	No.	5.00	4,171.00	20,855.00
	ii) Ordinary Km. Stone (Precast)	No.	25.00	2,592.00	59,616.00
	iii) 200 meter stone (Precast) as per IRC 26-1967	No.	111.00	688.00	77,744.00
5.08	Type - A, "W": Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated hot dipped galvanized sheet metal beam rail width 310mm, depth 83 mm,having minimum yield strength of 2400 kg/sqcm, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel Section 150 x 75 x 5 mm, 330 mm long complete as per drawing and as per technical specifications clause 810 and as directed by the Engineer	Rm	300.00	3,198.00	9,59,400.00

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Item No	Description	Unit	Quantity	Rate	Amount
5.09	Providing rumble strips in a series of 15 in number consisting of intermittent raised bituminous concrete overlays across the roadway with sections of 25 mm high, 300mm wide and spaced at one meter centre to centre complete as per drawing and specification under Ministry's Circular No.RW/NH-11064(1/91-DO) I dated 28-06-1996.	No	100	12,641.00	12,641.00
5.10	Providing raised pedestrian crossing/ speed tables across the roadway with sections of 75 mm high, 7.0m overall width with 3.0m flat top complete as per detail drawing and Technical Specification.	No.	200	64,922.00	1,29,844.00
	Total Subhead 5-TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES				**1,33,05,505.00**
	SUB-HEAD-6: MISCELLANEOUS				
6.01	Construction of Passenger Pick-up shed at Bus Bays/ Stops with Galvalume Roofing SHEETS fixed to truss made of rectangular hollow section (RHS) / square hollow section (SHS) conforming to IS:1611 and RCC open foundations & columns along with Stainless steel railing for passenger movements complete as per design [illegible]	No	4.00	3,56,959.00	14,27,836.00
6.02	Construction of Cement Concrete/ Reinforced Cement Concrete Open Drains including Earthwork, leveling and preparation of subgrade complete as per detail drawings and specification and as directed by the [illegible]				
	ii) M-20 grade Reinforced Cement Concrete for Depth upto 1.0M	Rm	5000.00	8,759.00	4,37,95,000.00
6.03	Construction of surface drainage in high embankments/ bridge approaches, comprising of both longitudinal and cross drains made of Plain concrete of M15 grade including excavation for the lined drains, leveling and preparation of beds complete as per detail drawings and as directed by the Engineer.				
	i) Longitudinal Saucer Drain at shoulder	Rm	5000.00	678.00	33,90,000.00
	ii) Vertical Cross Drains	Rm	2000.00	1,013.00	20,26,000.00
	iii) Catch Pits at end of Vertical Cross drain	No	112.00	1,917.00	2,14,704.00
6.04	Providing, fitting and erecting pre-fabricated railing of TATA STRUCTURA or equivalent materials having size of 2.0m x 0.90m in panels made of 25 x 25 x 2.6mm / 40 x 40 x 2.6mm vertical bars and 40 x 40 x 2.6mm / 32 x 32 x 2.6mm horizontal bars. The two end posts of each panel are founded with M-15 cement concrete up to a depth of 200mm with anti-corrosive primer and paint etc complete as per approved drawing and technical specification as directed.	Rm	1000.00	1,319.00	13,19,000.00
	Total Subhead 6-MISCELLANEOUS				**6,26,56,095.00**
	SUBHEAD-7: CONSTRUCTION OF NEW CULVERTS				
7.01	Providing, laying and positioning Standard single cell precast box culverts along with wing walls, parapet walls, etc including necessary earthwork in excavation in all type of soil/ rock and refilling, transportation, erection, jointing by grouting, etc complete as per the Assam Standard Culverts drawings and Specifications (Measurement shall be for the completed culvert in position from top edge to top edge of running length of				

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Item No	Description	Unit	Quantity	Rate	Amount
	(a) RCC Cells (10 m x 10 m)				
	Total Subhead 7-TOTAL FOR NEW CULVERTS				
	SUBHEAD 8: CONSTRUCTION OF NEW RCC BRIDGE				
	SUB-HEAD 10- DPR PREPARATION				
	TOTAL =				63,50,54,597.00

(B. Singha)
Executive Engineer, PWD (R&B)
Malbang Division, Malbang
Dima Hasao, Assam

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Annexure I

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: L **State: Assam**

Name of Project:Improvement & Strengthening of Bishmuri Saralpara Sarbhog road in Kokrajhar Distrct.

Project Description/Summary (not exceeding 200 words): The Bishmuri Saralpara Sharbhong Road is a State Highway originating from NH-31C at Bishmuri and ends at Sarpang (Sarbhong) in Bhutan Border connecting the Sarpang-Gelephu-Trongsa Highway under Royal Govt. of Bhutan. Sarpang is a District H/Qr of Sarpang District under the Royal Government of Bhutan.
The total length of the road is 34.85 Km. The road was initially constructed and blacktopped during the year 1974-1975 by the GREF wing of BRO and was handed over to the State PWD for maintenance Subsequently the road had been widened to 9m formation and 5.5m wide hard crust with PMC & Seal coat surface. This road is used both by the people of India as well as Bhutan to transport their essential commodities; hence this road is considered as one of the main corridors between the two Nations, which after improvement may boost the trade relations of both the Country. Besides these, the road passes through many tribal villages and the people of these villages are dependent upon this road to meet their daily needs. The Saralbhanga river quarry also situated beside this road which is one of Govt. income source. Above all, this road, which passes through thick forest area, is most important for maintaining law and order along the Indo-Bhutan Border.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.72.98 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.

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1.7	Broad Breakup of Major Components of the project Cost as per concept note		
S.No.	Items of Work	Cost proposed by State Govt. in concept paper	
1	Road works	54.48	
2	Road Appertenances	2.44	
3	HP Culverts	0.4	
4	Drain cum Footpath	5.06	
5	Feeder Road	0.33	
6	Sub-Total	62.71	
7	Add Contingency 2%	1.25	
8	Add Quality Control 1%	0.63	
	Sub Total	64.59	
9	Add for GST 12%	7.75	
10	Add LWC 1%	0.65	
	Grand Total	72.98	
1.7A	Out of above, SG's Contribution in the Project Cost, if any	For the above stated items/quantities - NIL	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	For the above stated items/quantities - NIL	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.8A	Original		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	Normative allocation of SG and related details	•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	Whether proposal has been accompanied with the following documents		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	

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6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: TW observed that :** (a) The cost of GSB, WBM Grade – II and WBM Grade – III has been taken in the Cost Appraisal whereas in the Typical Cross Section (Strengthening) these layers have not been shown. Moreover, in typical section layer of BM (75mm) and DBM (75 mm) considered which does not seems correct. The State Govt. may be asked to review the typical cross section as per IRC Code and prepare the estimate accordingly. (b) The MSA & CBR value is not mentioned. (c) The provision @ 2% on account of contingency has been taken. Program division may like to see. (d) The provision of Quality Control @ 1% has been taken which may be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (e) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
7	**Important observations/comments of Prog. Division**
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.

(Dated Signature & Name of
Under Secretary concerned)

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(6)

Sl. No. 6

GOVT. OF ASSAM

PWD PUBLIC WORKS ROADS DEPARTMENT ASSAM

PWRD

PROJECT CONCEPT PAPER

NAME OF WORK :

Improvement and Strengthening of Bishmuri Saralpara Sarbhong Road in Kokrajhar District, BTC, Assam, under NESIDS for the year 2021-22

Road Length : **31.85 KM [Ch.0 to 34.85 Km]**

Project Amount: **Rs.7,298.50 Lakh**

District : Kokrajhar

Division : Kokrajhar Rural Roads

Constituency : 30 Kokrajhar East (ST)

OFFICE OF THE EXECUTIVE ENGINEER, PWRD
KOKRAJHAR RURAL ROADS DIVISION
KOKRAJHAR

PWD

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[redacted]

BSS ROAD NESIDS 2021

Non-Duplicity Certificate

Sl. No.		Name of Scheme	Unit	Amount
1		**Improvement and Strengthening of Bishnuri Saralpara Sarbhong Road in Kokrajhar District, BTC, Assam, under NESIDS for the year 2021-22**	**1**	**Rs.7,298.50 Lacs**

Certified that the above noted scheme or any other part thereof are neither proposed nor taken up under any schemes/programmers like NLCPR/NEC/NABARD/State Plan/ MLAADs/ MPLADs /BADP & BADP TFC/PMGSY/Economic importance and neither interstate connectivity scheme etc nor billed against any other scheme

Sectional Officer, PWRD
Patgaon Section

Asstt. Executive Engineer, PWD
Kokrajhar Rural Roads Division

Executive Engineer, PWD
Kokrajhar Rural Roads Division

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[redacted]

GSS ROAD NESIDS 2021

GOVT. OF ASSAM
PUBLIC WORKS ROAD DEPARTMENT

Name of Project : Improvement and Strengthening of Bishmuri Saralpara Sarbhong Road in Kokrajhar District, BTC, Assam, under NESIDS for the year 2021-22

ABSTRACT OF COST

Sl No	Description	Quantity	Amount Rs. In Lakh
1	ROAD WORKS	34.85 KM	5,147.80/-
2	ROAD APPERTENANCES	34.85 KM	244.239
3	HP CULVERTS	8 NOs	40.0000
4	DRAIN CUM FOOTPATH	5620.00 RM	505.800
5	FEEDER ROAD	220.00 RM	33.000
	SUB TOTAL		6,270.85
6	Add Contingency 2 %	(incl Consultancy)	125.00
7	Add Quality Control 1%		63.00
	SUB TOTAL		6,458.85
8	Add for GST 12%		775.06
9	Add LWC 1 %		64.59
	GRAND TOTAL		7,298.50

(Rupees Seventy Two Crore Ninety Eight Lakh Fifty Thousand Only)

Executive Engineer, PWD

A.S.M

13/04/21

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GOVT. OF ASSAM

PUBLIC WORKS ROAD DEPARTMENT

Name of Project : Improvement and Strengthening of Bishmuri Saralpara Sarbhong Road in Kokrajhar District, BTC, Assam, under NESIDS for the year 2021-22

PROJECT AMOUNT : Rs.7,298.50 Lacs

PROJECT CONCEPT PAPER

1. INTRODUCTION :

Roads are a very vital infrastructure for rapid economic growth of the state/country. In fact, the development of important sectors of economy such as Agriculture, Horticulture, Industry, Mining and Forestry depends upon efficient road network. Social activities such as education, health, family planning and promotion of tourism also depend upon efficient road network.

The new central scheme of North East Special Infrastructure Development schemes (NESIDS), fully funded by the Government of India, is taken up to fill up gaps of infrastructure in certain identified sectors of the region. The NESIDS will accord focus on exploitation of huge tourism potential of the area by way of strengthening related infrastructure and will also give emphasis on creation of infrastructure of social sectors like health and education.

The Bodoland Territorial Council is an Autonomous Administrative unit having no power of Home affairs as well as limited power on financial matters, the BTC needs a vast attention from both the Central and the State Govt. to accomplish development in the area of economic, education, road communication and above all to speed up the infrastructure development of communities in the BTC area to keep pace with the rest of the states

At present, the Council's economy is very simple, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to poor communication scenario in BTC. The existing road network in the region is passing with the inadequate capacity, poor riding quality, weak pavement, poor geometric, submersible stretches, semi-permanent timber bridges, etc. The place utility of raw materials cannot be provided and therefore time utility through speedy transport of finished products is not availed. This has a serious impact in development and social activities like, education, health, promotion of tourism, postal services and other poverty alleviation programs since accessibility cannot be established, due to these communication gaps, other development activities could make no headway.

1.1 Name of Project :

NAME OF WORK

Improvement and Strengthening of Bisimuri Sara'para Sarbhong Road in Kokrajhar District, BTC,

1.2 Probable Cost of Project :

The estimated amount of Rs.7298.5 Lakh (Rupees Seventy Two Crore Ninety Eight Lakh Fifty Thousand) Only has been prepared to show the probable cost of the above project

1.3 Need of the Project :

The Bishmuri Saralpara Sharbhong Road is a State Highway originating from NH-31C at Bismuri and ends at Sarpang (Sarbhong) in Bhutan Border connecting the Sarpang-Gelephu-Trongsa Highway Under Royal Govt of Bhutan. Sarpang is a District H/Qr of Sarpang District under the Royal Government of Bhutan.

The total length of the road is 34.85 Km. The road was initially constructed and blacktopped during the year 1974-1975 by the GREF wing of BRO and was handed over to the State PWD for maintenance. Subsequently the road had been widened to 9m formation and 5.5m wide hard crust with PMC & Seal coat surface. This road is used both by the people of India as well as Bhutan to transport their essential commodities, hence this road is considered as one of the main corridors between the two Nations, which after improvement may boost the trade relations of both the Country. Besides these, the road passes through many tribal villages and the people of these villages are dependent upon this road to meet their daily needs. The Sarabhanga river quarry also situated

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beside this road which is one of Govt income source. Above all, this road, which passes through thick forest area, is most important for maintaining law and order along the Indo-Bhutan Border.

2 AUTHORITY

This Project Concept Paper has been prepared under the direction of the Bodoland Territorial Council (BTC), Kokrajhar as well as Transformation & Development Department, Govt. of Assam, Dispur, Guwahati-6

3 BACKGROUND OF CRF:

The Ministry of Development of North Eastern Region (DoNER) has been sanctioning projects to eight states in North Eastern Region to fill up gaps in infrastructure through block grants of the NonLapsable central pool of Resources (NLCPR) through 90% central funding and 10% contributed by the States. The identified projects under the NLCPR scheme are executed by the State Government agencies.

The new central scheme of North East Special Infrastructure Development schemes (NESIDS), fully funded by the Government of India, is taken up to fill up gaps of infrastructure in certain identified sectors of the region. The NESIDS will accord focus on exploitation of huge tourism potential of the area by way of strengthening related infrastructure and will also give emphasis on creation of infrastructure of social sectors like health and education.

3.1 Objectives of NESIDS:

The broad objectives of NESIDS is to ensure focused development of North East Region by providing financial assistance for projects of (a)Physical infrastructure relating to water supply, power, connectivity and specially the projects promoting tourism and (b)social sector for creation of infrastructure in the areas of primary and secondary sectors of education and health. The NESIDS will be over and above the existing schemes of Government of India and State Government of the NE Region. Only those projects would be considered for funding under the scheme which are not supported under any other scheme of Central or State Government.

3.2 State Level Empowered Committee:

The State Level Committee will require constituting a State Level Empowered Committee (SLEC) chaired by Chief Secretary of the State and comprising Planning, Finance and other concerned Secretaries of the State Government. The Ministry of DoNER will be represented in the SLEC. The State Government shall designate reputed Institutions like IIT/ NIT, Engineering Colleges for Technical appraisal of DPR.

4 SECTORAL POLICY :

The B.T.C administration has taken up a policy decision to develop Roads, Bridges, health & family welfare sectors etc. by constructing various infrastructures within BTC areas. major road schemes under implementation in the BTC area are Pradhan Mantri Gram Sadak Yajana (PMGSY) funded by the Govt. of India, Central Road Fund (CRF) funded by the Govt. of India, RIDF funded by the NABARD, ARIASP funded by the World Bank, Interstate Border Area Development Schemes, etc. Each of the above mentioned schemes have been embarked upon with specific objectives.

Now this proposed project for Improvement and Strengthening of B.shmuri Saralpara Sarbhong Road in Kokrajhar District, BTC, Assam, under NESIDS for the year 2021-22 is a suitable project for taking up under NESIDS

5 JUSTIFICATION FOR TAKING UP THE PROJECT :

The road connects a large area comprising of many villages, health centers, School's, markets with the NH 31C as well as with Sarbhang Town under Royal Govt. of Bhutan. This direct communication link established after conversion of these bridge will increase the utility of several other roads in the district, to be developed subsequently and also bring several villages close to the NH31C and Sarbhang Town in terms of travel time. Majority of the population served by this road belong to SC and ST.

After improvement, this road will boost the trade relation between the two Nations India and Bhutan.

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6. FINANCIAL AND PHYSICAL PHASHING OF THE PROJECT YEARWISE :

The physical activities are planned as below:

PROJECT COST : Rs.7,298.50 Lacs

Activities (Financial)	2021-22			2022-23				2023-24			TOTAL
	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	
1. Physical :											
Preliminary Work											
Road formation											
Pavement Works											100%
Structures Works											
CD Works											
Protection Works											
Road Furnitures											
2 Financial (Lakh)	29.92	623.51	2264.3	647.01	485.26	647.01	970.52	808.77	647.03	485.27	7298.50

7. IMPLEMENTATING AGENCY AND PROJECT FORMULATION TEAM

The implementing agency will be the Public Works Department of the Govt of Assam comprising of more than 1500 qualified and experienced graduate Engineers who have several projects of road and bridge construction, road improvement etc under various projects like World Bank, NABARD loan, NEC, Border Roads Schemes and State Plan etc.

The Executive Engineer, Kokrajhar Rural Roads Division, Kokrajhar, BTC, Assam will be the Nodal Officer and will be the Engineer-in-Charge of the project. The Project is formulated under the direction of the Additional Chief Engineer, PWD, BTC, Kokrajhar, Assam with data base from the Executive Engineer, PWRE Kokrajhar Rural Roads Division, Kokrajhar and his team of Engineers.

The progress of this project will be reported on a quarterly basis on the proforma (Q.P.R.) prescribed by MDoNER for this purpose. The QPR will be prepared by the Addl. C.E. PWD, BTC, Kokrajhar on behalf of Chief Engineer, PWRD, Assam at the end of each quarter so that the same can reach the Joint Secretary in Charge of CRF in the MDoNER within the time period fixed by the MDoNER.

The required information on progress of report will be submitted to the Principal Secretary, Government of BTC through the Addl. C.E., BTC, Kokrajhar, Assam, to enable the same to hold quarterly meeting to review the progress of implementation of the ongoing projects under CSF.

The field Officers of P.W.D, Assam if required, will accompany the Officers of DONER on field inspection for the purpose of monitoring and evaluation of implementation on the project.

The utilization certificate of the fund received will also be furnished as required before subsequent release of fund.

Wide publicity to the project will be given by the department through signboard at project site and advertisement in News Papers etc.

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7.1. STATUTORY CLEARANCE:

Since work will be on existing road Alignment, clearance from forest is not necessary. Pollution is non-polluting type as such permission from Pollution Control Board is not necessary.

7.2. AVAILABILITY OF LAND:

Land acquisition is not at all necessary, as the construction will be on the existing road alignment, which is presently on PWD land.

7.3 IMPLEMENTATION SCHEDULE:

Action	Likely Date
Expected Sanction	30-05-2021
Completion of Detail Working Estimates and Drawings	29-06-2021
Issue of NIT	29-07-2021
Issue of Work Order	13-08-2021
Commencement of Work	18-08-2021
Completion of Work	12-08-2024

The work will have to span over Three financial years commencing from 2021-22 to 2023-24. The actual construction work is expected to start in the 2nd Qtr of 2021-22.

The proposed phasing of the work is as under :-

7.3.1. Physical :

7.3.1.a Pre-construction Stage :

(i) Survey and Preparation working drawings estimates : 30 days

(ii) NIT and issue of Work Order : 30 days

7.3.1.b. Construction Stage :

(iii) Commencement of work: 5 days

(iv) Time of completion : 36 months

7.3.2. Financial :

Year	Financial (Lakhs)
2021-22	Rs 443.13
2022-23	Rs 4,043.78
2023-24	Rs 2,911.59
Total	**Rs.7,298.50**

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8. PROJECT FORMULATION PROCESS :

Once this concept paper is accepted in principle, consultancies will be engaged for sub soil investigation, detail survey, hydraulic particulars, designs and estimation of the road, bridges including approaches will be carried out, and a detailed estimate will be submitted

9. DESIGN :

The Design of the Road pavement and RCC Bridges will be done in conformity with relevant IRC Code of Practices. Detailed working drawing for the bridges will be prepared for execution after sanction on the PCP is received.

10. SUMMARY OF THE PROJECT :

10.1 Name of Project :

Improvement and Strengthening of B.Shimuri Saraipara Sarbhong Road in Kokrajhar District, BTC, Assam under NESIDS for the year 2021-22

10.2 Project Cost : 22.985 Crores

10.3 Project Provisions

1. Clearing & grubbing road shoulder
2. Dismantling the existing bituminous surface
3. Earthwork in shoulders
4. Construction of GSB, WBM-II & WBM-III in regrading of road level in bridge approaches
5. Providing WMM, BM, DBM & BC for improvement of the road.
6. Construction of 3 nos of HP culverts
7. Construction of Drain cum footpath
8. Providing road appertanances

10. RATES :

This PCP has been prepared as per the State Highways and Major District Roads for all Divisions under PWD, Assam for the year 2018-19

Sectional Officer, PWRD Patgaon Section	Asstt. Executive Engineer, PWD Kokrajhar Rural Roads Sub-Divn	Executive Engineer, PWD Kokrajhar Rural Roads Division

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COST APPRAISAL FOR

...mprovement and Strengthening of Balimur Sonapara Satchang Road in Kokrajhar District, BTC, Assam, under NESIDS for the year 2021-22

TOTAL ROAD LENGTH = 34.85 Km PAVEMENT LENTH = 0.725 km

S No	Description	Unit	Approx. Quantity	Rate (Rs.)	Amount (Rs.)
	ROAD WORKS:				
1	Clearing and Grubbing Road Land (Clearing and grubbing road land including uprooting rank vegetation grass bushes shrubs saplings and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable materials to be used or auctioned up to lead of 1000metres including removal and disposal of top organic soil not exceeding 150mm in thickness (i) By Manual Means.- B. In area of thorny jungle	hectare	12.15	63,418.00	7,67,992.00
2	Dismantling of Flexible Pavements (Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately) II By Mechanical Means A Bituminous course	cum	4758.60	251.00	11,94,408.00
3	Construction of subgrade and earthen shoulders with approved material obtained from borrow pits, with all lifts & leads transporting to site spreading, grading to required slope and compacted to meet requirement of table 300-2 etc.,) Including cost of testing of materials at site and laboratory as directed by the deptt. (a) From private land	cum	66099.90	290.00	1,91,94,971.00
4	A. Plant Mix Method (Construction of granular sub-base by providing close graded Material mixing in a mechanical mix plant at OMC carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete as per cl. 401) Including cost of testing of materials at site and laboratory as directed by the deptt.) (a) For grading- I Material	cum	982.80	2,997.40	29,45,938.00
5	Water Bound Macadam (Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including screening in uniform thickness, hand packing, rolling with vibratory roller 8-10 numbers in stages to proper grade and camber, applying and brushing requisite type of screening binding material to fill up the interstices of coarse aggregate watering and compacting to the required density with an initial lead of 5.0 km.) B. By Mechanical Means (a) Grading- I (a) Using Screening Consistent type such as Moorum or Gravel	cum	308.00	3,962.21	12,20,961.00

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2	Water Bound Macadam (Providing, laying spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber applying and brooming requisite type of screening/binding material to fillup the interstices of coarse aggregate watering and compacting to the requ density (with an initial lead of 5.0 km) a. By Mechanical Means (a) Grading- III (b) Using Screening Type-B (11.2mm Agg.)	cum	6700.03	3,809.00	2,55,20,414.00
3	Wet Mix Macadam (Providing laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sb-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density (including carriage of mixed materials up to 10.0 Km initial lead from mixing plant	cum	48356.20	3,405.02	16,47,01,503.00
4	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 1.00 kg/sqm using mechanical means (including cost of testing of materials at site and laboratory as directed by the Deptt.) (a) With bitumen emulsion (CSS-1h)	sqm	290944	48.00	01,36,513.00
5	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical brooms (including cost of testing of materials at site and laboratory as directed by the Deptt.) (a) With Bitumen emulsion (CSS-1h) (a) dry & hungry bituminous surface	sqm	573694	13.00	74,58,022.00
6	Bituminous Macadam (Providing and laying bituminous macadam with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a prepared carriage of mixed materials up to 10.0 Km initial lead from mixing plant (including cost of testing of materials at site and laboratory as directed by the Deptt.) A. Without tack and stripping agent (a) with 60/70 or VG-30 grade paved bitumen for Grading -II (40 mm nominal size)	cum	14275.80	7,870.43	11,23,83,744.00

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	Dense Graded Bituminous Macadam: Providing and laying dense bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix and filler transporting the hot mixx to work site,laying with a hydrostatic paver finisher with sensor control to the read grade level and alignment rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MoSRT&H cl no 507 complete in all respect including carriage of mixed materials up to 10.0 Km lead from mixing plant including cost of testing of materials at site and laboratory as directed by the deptt.) (a) With hydrated lime cement as filler (refer table 500-9 of MoSRT&H specification) (i) with 80/70 or VG-30 grade bitumen (ii) for Grading-II (13 mm nominal size)	Cum	14375.63	8,842.08	12,71,20,471.65
12	Bituminous Concrete :Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder @ 5.4 to 5.8 % of mix and filler transporting the hot mix to work site laying with a hydrostatic paver finisher with sensor control to the read grade level and alignment rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction as per MoSRT&H cl no 509 complete in all respect including carriage of mixed materials up to 10.0 Km lead from mixing plant including cost of testing of materials at site and laboratory as directed by the deptt.) (a) With hydrated lime cement as filler (refer table 500-9 of MoSRT&H specification) (i) with 80/70 or VG-30 grade bitumen (ii) for Grading-II (13 mm nominal size)	Cum	7687.50	9,572.04	7,36,88,53...
	ROAD APPERTANANCES:				
13	Retro reflectorised Traffic sign Providing and erecting of Retro-Reflectorised cautionary, mandatory & informatory sign as per IRC: 67 made of high intensity encapsulated lens type reflective sheeting base as per 601.3, fixed over aluminium sheeting 3 mm thick fixed on an angle iron of 35x35x4mm supported on a mild steel angle iron post 75mm x 75mm x 6mm firmly fixed to the ground by means of properly design foundation with M-15 grade Cement concrete 45cm x 45cm x 60cm 60cm below ground level as per approved drawing and sign. All the Stay work must be Tata/Sail or any other approved make (a) 600mm x 450 mm rectangular	each	429	5,268.00	22,60,572.00

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12	Retro reflectorised Traffic sign Providing and erecting of Retro-Reflectorised cautionary, mandatory & informatory sign as per IRC: 67 made of high intensity encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting 2 mm thick fixed on an angle iron of 25x25x4mm supported on a mild steel angle iron post 5mm x 75mm x 6mm firmly fixed to the ground by means of properly design foundation with M-15 grade Cement concrete 45cm x 45cm x 60cm 60cm below ground level as per approved drawing and sign. ; All the Steel work must be Tata/Sail or any other approved brand) i) 60cm equilateral triangle	each	310	4,052.00	12,56,120.00
13	Providing and laying of hot applied thermoplastic reflectorised 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area thickness of 2.5 mm inclusive of surface applied glass beads as per IRC 35. The finished surface to be level uniform and free from streaks and holes and conforming to the MoSRT&H specifications	sqm	15082.5	876.00	1,32,12,270.00
14	Providing reflective pavement marker with Micro prismatic lens in both direction having thermoplastic body adhering to the specification and guidelines of MoSRT&H's fixed to the road surface using the adhesives and the procedures recommended by the manufacturers with three months replacement warranty and free maintenance	each	13944	249.00	45,67,656.00
15	Providing Sparkle Solar Road Studs manufactured by Tata BP Solar India Ltd. Of size (125mm x 125mm) 30mm height from bottom of shank to the top of stud with detachable battery, mcLEDs-three on each side for Bi-directional studs: 3 LEDs on one side for unidirectional studs ultra bright LED (can be red or colour as per site requirement) 700+25 gms flash rate of 60+5 times per minute completely water resistant and weather proof with replacement warranty and free maintenance for one year from the date of installation of stud on road. Installation should be made using adhesives and procedures recommended by manufacturer under the supervision of their competent technician a) Bi-directional Stud	each	620	3,199.00	19,83,380.00
16	Providing spring post of medium height, 80mm dia with round base of 250mm dia made of poly urethane with 3 white reflective bands made of HIG retro-reflectorised sheeting and fixing to the ground as per specifications of manufacturers	each	520	1,300.00	11,96,000.00
17	**FEADER ROAD**	metre	720	15,000.00	32,00,000.00
18	[illegible] Culvert	Nos	8	5,00,000.00	10,00,000.00
19	*Drain Cum Footpath*	RM	5070	9,000.00	5,09,82,000.00
				TOTAL =	**62,70,84,628.00**

Section Officer, PWD
Public Health Div.

Executive Engineer, PWD
Roads Division

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PRESENT ROAD STATUS

Sl No	Road Name	Chainage in M		Road Surface	BT Width	Formation Width	Total Length in Km
		From	To				
1	Bismun Saraipara Sarbhong Road	0	34850	BT	5.5	9	34.85
							0.00
							0.00
							0.00
TOTAL ROAD LENGTH							34.85

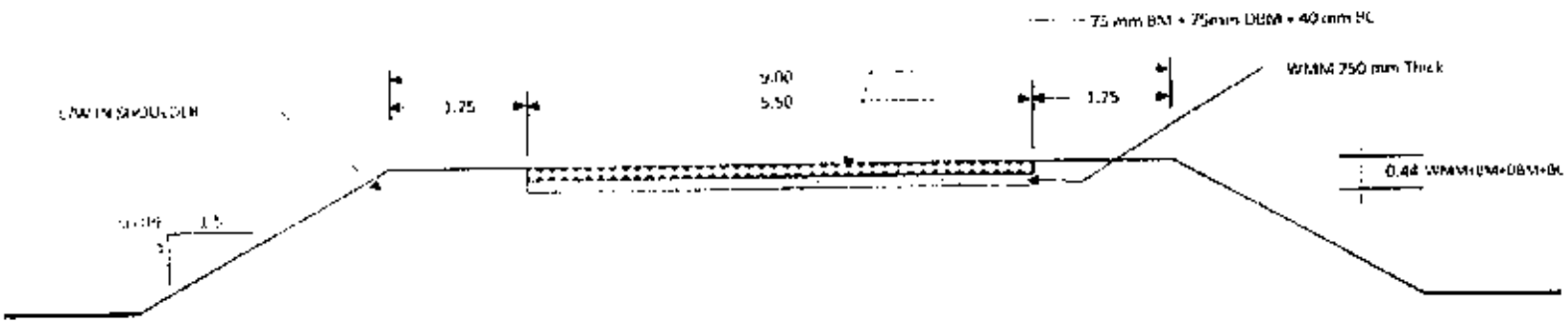
Sectional Officer, PWD
Rangpuri Sub Div

Asstt. Executive Engineer, PWD
Kokrajhar Rural Roads Sub-Divn.

Executive Engineer, PWD
Kokrajhar Rural Roads Division

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TYPICAL CROSS SECTION STRENGTHENING



THICKNESS OF LAYERS			
WMM	=	250	mm
BM	=	75	mm
DBM	=	75	mm
BC		40	mm

C/S AREAS				QUANTITIES		
WMM	=	1.375	m2	=	47586.00	cum
BM	=	0.4125	m2	=	14275.80	cum
E/W in shoulder	=	1.8204	m2	=	63346.48	cum
E/W in Core	=		m2	=	0.00	cum
E/W in Excavation	=	0	m2	=	0.00	cum
Dismantling of flexible pavement	=	0.1375	m2	=	4758.60	cum
DBM	=	0.4125	m2	=	14275.63	cum
BC	=	0.22	m2	=	7667.00	cum
Clearing & grubbing				=	12.21	hect

DRAINAGES			LENGTH	
0	to	34850	= 34850	M
TOTAL LENGTH =			34850	M
RCC Br/CD Gap =			242	M
NET LENGTH =			34608	M

Sectional Officer, PWRD
Patgaon Section

Asstt. Executive Engineer, PWD
Kokrajhar Rural Roads Sub-Divn.

Executive Engineer, PWD
Kokrajhar Rural Roads Division

File No. Coord-14/8/2021-O/o US (NLCPR) (Computer No. 115860)
DFA/115909 (Attachment : Annexure E_1636135449833_377.pdf)
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207

REGRADING OF ROAD LEVELS AT BRIDGE APPROACHES AT BRIDGES AND CULVERTS

Total Approach length (both side)=	660 m
Average depth of GSB=	0.3 m
WBM-II thickness=	0.1 m
WBM-III thickness=	0.075 m
WMM thickness=	0.25 m
BM thickness=	m
DBM thickness=	m
BC thickness=	m
Average Shoulder Area=	3.8454 m2

Volume Calculation

1 GSB	982.8 cum
2 WBM-II	303 cum
3. WBM-III	231 cum
4 WMM	770 cum
5 BM	cum
6. DBM	cum
7 BC	cum
8. EW in Shoulder	2153.424 cum

POT HOLE REPAIR ATSTRETCHES

1 WBM-III	45% x	34950.00	x 5.5	x 0.075

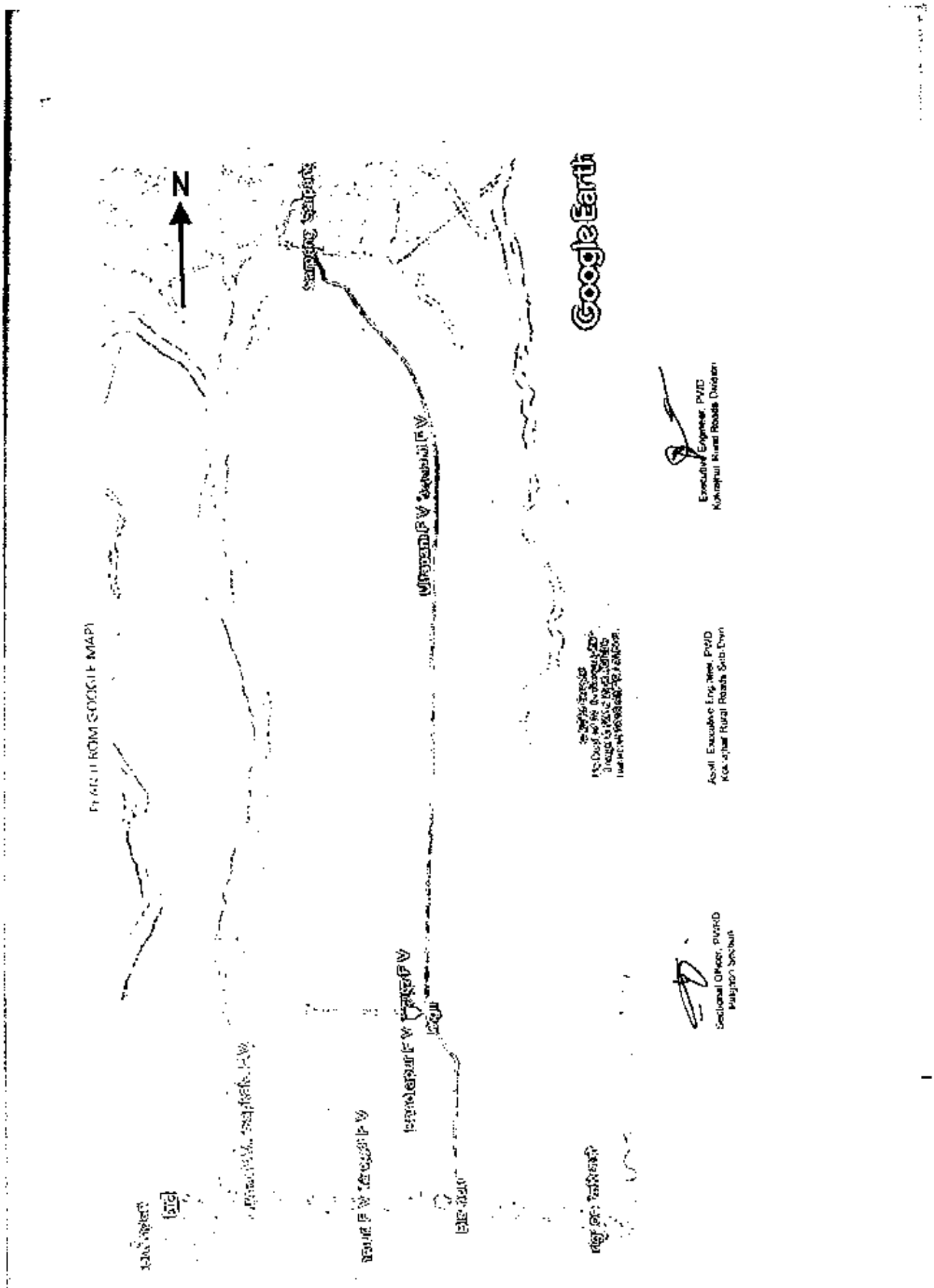
= 6469.03 cum

Sectional Officer, PWRD
Patgaon Section

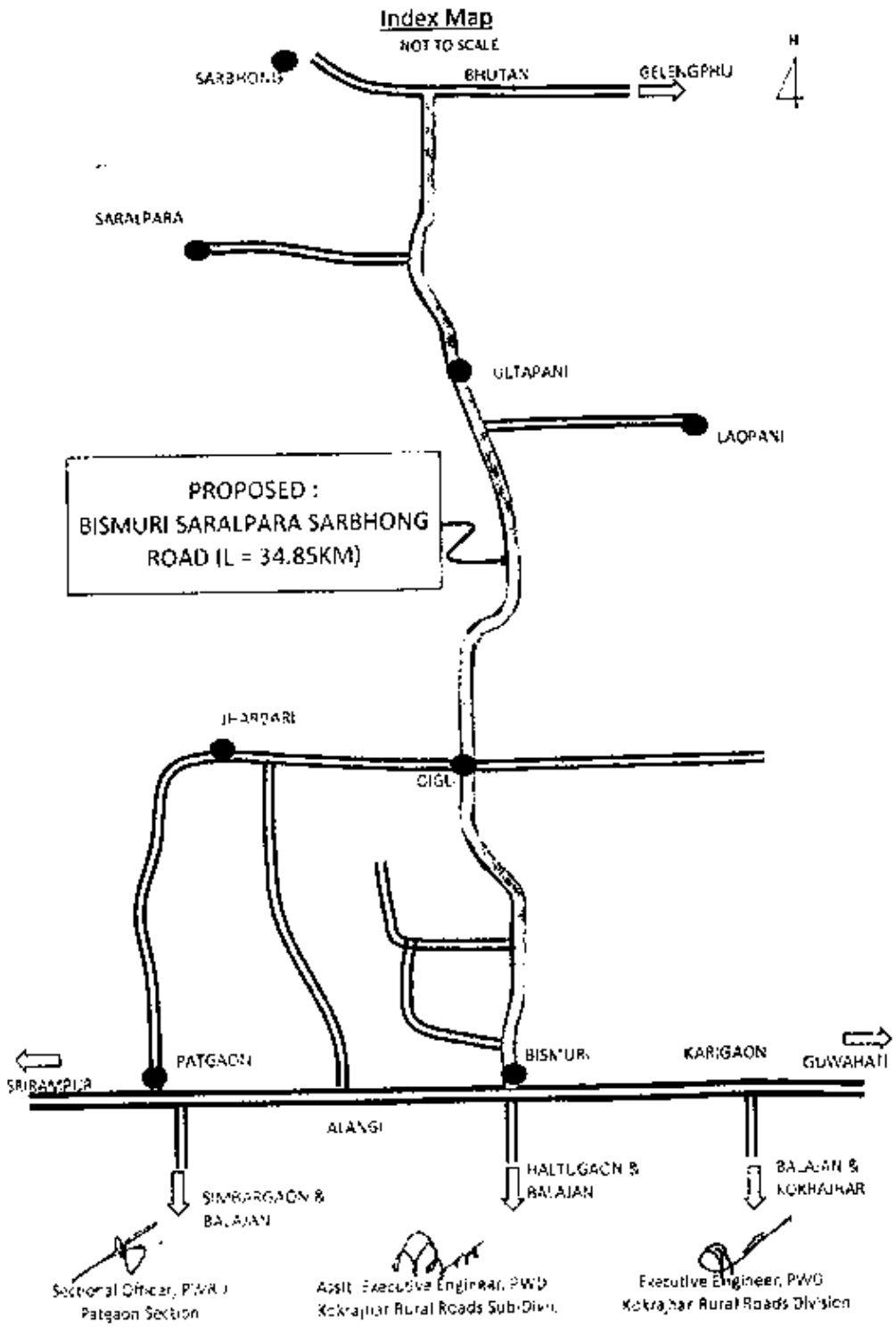
Asstt. Executive Engineer, PWD
Kokrajhar Rural Roads Sub-Divn.

Executive Engineer, PWRD
Kokrajhar Rural Roads Division

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Annexure J

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: J **State: Assam**

Name of Project: Construction of 2x50 MVA, 132/33 KV GIS (Gas Insulated Substation) at 220/132 KV Amingaon GIS.

Project Description/Summary (not exceeding 200 words): The proposed 2x50 MVA, 132/33 kV GIS substation shall be constructed at the under construction 220/132 KV Amingaon GIS site. It is located in Pacharia, Kamrup (Rural) District of Assam and situated at around 27 KM from Guwahati Airport on the North Bank of River Brahmaputra. Project site coordinates are 26.23606N, 91.64966E.
The area has high industrial load demand which is expected to rise in near future. Also considering that the area falls under Greater Guwahati area, providing quality power to the consumers of the area is a priority of APDCL (Distribution Licensee). Moreover, existing 33 KV feeders from Sishugram are very long for which reliability of the lines decreases. Once this substation is completed, it can cater to the increased load demand of the area. Further, APDCL can draw power from this substation to meet up the area load demand thus increasing reliability of power supply and improved voltage profile due to shorter 33 KV line.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 32.07Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Power
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	

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S.No.	Items of Work	Cost proposed by State Govt. in concept paper (Rs. in crore)	
1	Supply and F&I (Electrical)	25.16	The totalling in abstract of cost is not correct. Hence variation in total cost here wrt to project cost.
2	Erection (Electrical)	0.67	
3	Civil Works	4.24	
	Total	30.07	
5	Contingency @ 5% on 30.54	1.53	
	Grand Total (Sky)	31.6	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore** **• Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Power	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: TW, DoNER has observed that** (i) The total amount of Electrical and Civil works has been mentioned in the concept note. No details of civil work has been provided to offer the comments. (ii) The provision @5.00% on account of contigency has been taken.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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ASSAM ELECTRICITY GRID CORPORATION LIMITED

CONCEPT PAPER

For

CONSTRUCTION OF 2X50 MVA, 132/33KV GIS (GAS INSULATED SUBSTATION) AT 220/132KV AMINGAON GIS

AEGCL

Estimated Cost: Rs. 32.07 Crore

Submitted: May – 2021

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1. INTODUCTION

Assam Electricity Grid Corporation Limited, a vibrant growth oriented Public Sector Company registered under *Company Act, 1956* was formed out of restructuring of Assam State Electricity Board in 2003 and was notified as the State Transmission Utility (STU). Its core business is to efficiently transport electrical power from electrical power bulk heads to the load centres for the distribution company networks in the state of Assam.

Presently AEGCL has **68** numbers of substations with transformation capacity of **7,124 MVA,** load handling capacity of **2,448 MW** and **5713** Circuit KMs of transmission lines of various voltage classes ranging from 66 kV to 400 kV in operation.

To meet the ever increasing load demand, AEGCL keeps on adding new grid elements like EHV substations, Transmission lines and takes up project for augmentation of existing capacity of Grid Substations and Transmission Lines.

2. PROJECT PROPOSAL

It is proposed to construct a 2x50 MVA, 132/33 kV GIS substation at 220/132 KV Amingaon GIS in Kamrup (Rural) district of Assam.

3. PROJECT LOCATION

The proposed 2x50 MVA, 132/33 kV GIS substation shall be constructed at the under construction 220/132 KV Amingaon GIS site. It is located in Pacharia, Kamrup (Rural) District of Assam and situated at around 27 KM from Guwahati

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Airport on the North Bank of River Brahmaputra. Project site coordinates are 26.23606N, 91.64966E.

4. DESCRIPTION OF THE EXISTING NETWORK

The load in the area is presently fed at 33 KV level from 132/33 KV Sishugram GSS which receives power from 132/33 KV Kahilipara Substation at 132kV level through 132 KV Kahilipara-Sishugram Transmission Line. A dedicated substation for AIIMS, Guwahati is also being constructed which will be fed by 132 KV LILO from Kahilipara-Sishugram Transmission Line.

A 220/132 KV GIS substation (2x160 MVA) at Amingaon (Pacharia) is being constructed by AEGCL under NERSEIP funded by World Bank. The substation shall receive power from existing 220/132 KV Rangia GSS through Double Circuit 220 KV Rangia-Amingaon transmission line (33 KM) which is also being constructed under WB funding. However, 132/33 KV substation was not in the scope of the NERSEIP project.

5. NECESSITY OF THE PROJECT

In line with the ongoing construction activity of 220/132kV Amingaon GIS Substation and with the expectation of early commissioning of 220/132kV Amingaon GIS Substation under NERPSIP, the distribution licensee i.e., APDCL have chalked out their own plan to establish downstream 33/11kV substation in the area. In light of above, it is imperative that a 132/33kV substation comes up at the earliest, so as to feed load to the distribution licensee and other consumer through 33 KV system.

At present power demand of the area is in the tune of 41 MW at 33 KV level which is mainly fed from 2x30 + 1x40 MVA, 132/33 KV Sishugram GSS. It is

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expected that the load demand in the area will increase exponentially due to industrial growth, proposed AIIMS at Changsari and due to expansion of capital city of Guwahati. The load demand in upcoming years in the area is expected to be 135 MW at 33 KV level. The present Grid network shall not be sufficient to cater to this huge load demand and 132/33kV Sishugram Substation has no space for expansion of 33 KV side to accommodate new 33 KV feeder. Therefore, a new 132/33 KV substation is very much essential to meet the load demand in near future.

6. BENEFIT OF THE PROJECT

The area has high industrial load demand which is expected to rise in near future. Also considering that the area falls under Greater Guwahati area, providing quality power to the consumers of the area is a priority of APDCL (Distribution Licensee). Moreover, existing 33 KV feeders from Sishugram are very long for which reliability of the lines decreases.

Once this substation is completed, it can cater to the increased load demand of the area. Further. APDCL can draw power from this substation to meet up the area load demand thus increasing reliability of power supply and improved voltage profile due to shorter 33 KV line.

7. PROJECT COST

Total cost of the project is estimated to be **Rs. 32.07 Crore**.

The cost break up is shown below:

Sl.	Particulars	Amount(In Rs. Crore)
1	Supply and F&I (Electrical)	25.1625

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2	Erection(Electrical)	0.6667
3	Civil Works	4.2372
4	**Total**	30.54
5	Contingency @ 5% on 30.54	1.527
6	**Grand Total(Say)**	**32.07**

All taxes and duties are included in the cost estimates. There shall be no additional cost for land procurement as the substation is proposed to be constructed at existing substation site.

8. PROJECT EXECUTION TIMELINE AND CASH FLOW REQUIREMENT

The project is proposed to be completed within twenty four months.

Cash flow requirement will be as follows:

1st Year (70%)	Rs. 22.45 Crore
2nd Year (30%)	Rs. 9.62 Crore

9. IMPLEMENTATION AND EXECUTION OF THE PROJECT

AEGCL has a separate project planning and development (PP&D) wing headed by the Chief General Manager (PP&D). The project will be implemented by the Chief General Manager (PP&D) and will be executed by the Deputy General Manager, LA T&T Circle, AEGCL, Narengi. The project shall be executed through turnkey construction mode and contractor shall be selected through National Competitive Bidding.

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10. AVAILIBILITY OF LAND AND RIGHT OF WAY ISSUES

The space for the proposed substation shall be accommodated in the under construction 220/132kV Amingaon Substation site. So, land availability is not an issue. There shall be no RoW issue for the project.

11. IMPACT ON ENVIRONMENT

The proposed project shall be executed in existing switchyard of 220/132 KV Amingaon GIS substation. As such, there shall be no damage to environment in executing the project. Also, there will not be any issue regarding resettlement of persons as there is no additional land/RoW required in this project.

12. FOREST CLEARANCE

No forest clearance is required for this project.

13. FEASIBILITY OF THE PROJECT

As the project is proposed to be implemented in an area without any law and order problems and procurement of land will not be required nor any forest clearance will be required it will be feasible to execute the project within the completion time of 24 months.

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ASSAM ELECTRICITY GRID CORPORATION LIMITED
Regd. Off.: BIJULEE BHAWAN (FIRST FLOOR) PALTANBAZAR, GUWAHATI - 781001
CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3
PHONE: 0361-2739520 Web www.aegcl.co.in

NON DUPLICITY CERTIFICATE

This is to certify that the project namely "**Construction of 132/33 KV GIS (Gas Insulated Substation) at 220/132 KV Amingaon GIS**" proposed under NESIDS has not been proposed under any other scheme.

Sincerely,

(A K Nath)
Chief General Manager (PP&D), AEGCL
1st Floor, Bijulee Bhawan,
Paltanbazar, Guwahati -01

ASSAM ELECTRICITY GRID CORPORATION LIMITED
Regd. Off.: BIJULEE BHAWAN (FIRST FLOOR) PALTANBAZAR; GUWAHATI - 781001
CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3
PHONE 0361-2739520 Web www.aegcl.co.in

LAND AVAILABILITY CERTIFICATE

This is to certify that the project namely "**Construction of 132/33 KV GIS (Gas Insulated Substation) at 220/132 KV Amingaon GIS**" proposed under NESIDS shall be done in available land of existing AEGCL substation.

Sincerely,

(A K Nath)
Chief General Manager (PP&D), AEGCL
1st Floor, Bijulee Bhawan,
Paltanbazar, Guwahati -01

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

.....

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 09.08.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Assam for funding under North East Special Infrastructure Development Scheme (NESIDS).

Please refer to your Office Memorandum No. NESIDS-12/1/2021-O/o US (NLCPR) dated 29.07.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of 2x50 MVA, 132/33 KV GIS (Gas Insulated Substation) at 220/132 KV Amingaon GIS.	32.07	(a) The total amount of Electrical and Civil works has been mentioned in the Concept Note. No details of civil work has been provided to offer the comments. Regarding Electrical work comments of Ministry of Power may be taken.
2.	Augmentation of 2x100 MVA, 220/132 KV Rangia GSS by 2x200 MVA Auto-Transformer.	24.47	(b) The provision @ 5.00% on account of contingency has been taken. Program division may like to see.

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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Annexure IT

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: K **State: Assam**

Name of Project: Augmentation of 2x100 MVA, 220/132 KV Rangia GSS by 2x200 MVA Auto-Transformer.

Project Description/Summary (not exceeding 200 words): 220/132 KV Rangia GSS is located about 6 km north-east of Rangia Town in Kamprup (Rural) District, Assam. Rangia Town is about 56 km from Guwahati Airport. Presently the Rangia GSS has 2 no. of 100 MVA auto transformer installed. The susstation draws power at 220 KV from Salakati GSS through 220 KV Salakati-Rangia D/C. Transmission lines supplies load to 132 Nalbari GSS, 132 KV Sipajhar GSS, 132 KV Kamalpur GSS and 132 KV Barnagar GSS through 132 KV transmission lines. The 2 nos. of 100 MVA transformers are getting almost saturated during the peak demand. Since load demand is increasing sharply with growing economic activity, it is necessary to augment transformer capacity of substation .

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 24.47 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Power
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	N/A	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**
i	Supply, erection and commissioning of transformer including NIFPS and manadatory spares	19.73

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ii	Associated supply required (CT, Cable supply and laying/ erection/ commissioning)	1.68	
iii	Civil Works	1.89	
	Total	23.3	
iv	Contingency @ 5% on 23.30	1.17	
	Grand Total (Sky)	24.47	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore** **• Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry of Power	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER has observed that (i) The total amount of Electrical and Civil works has been mentioned in the concept note. No details of civil work has been provided to offer the comments. (ii) The provision @5.00% on account of contigency has been taken.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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ASSAM ELECTRICITY GRID CORPORATION LIMITED

CONCEPT PAPER

For

AUGMENTATION OF 2x100 MVA, 220/132 KV RANGIA GSS BY 2x200 MVA AUTO-TRANSFORMER

Estimated Cost: Rs. 24.47 Crore

Submitted: May - 2021

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1. INTRODUCTION

Assam Electricity Grid Corporation Limited, a vibrant growth oriented Public Sector Company registered under *Company Act, 1956* was formed out of restructuring of Assam State Electricity Board in 2003 and was notified as the State Transmission Utility (STU). Its core business is to efficiently transport electrical power from electrical power bulk heads to the load centres for the distribution company networks in the state of Assam.

Presently AEGCL has **68** numbers of substations with transformation capacity of **7,124 MVA,** load handling capacity of **2,448 MW** and **5713** Circuit KMs of transmission lines of various voltage classes ranging from 66 kV to 400 kV in operation.

To meet the ever increasing load demand, AEGCL keeps on adding new grid elements like EHV substations, Transmission lines and takes up project for augmentation of existing capacity of Grid Substations and Transmission Lines.

2. PROJECT PROPOSAL

The following project is proposed for augmentation of transformation capacity at 220/132 KV Rangia GSS of AEGCL:

Augmentation of 2x100 MVA, 220/132 KV Rangia GSS By 2x200 MVA Auto-Transformer.

3. PROJECT LOCATION

220/132 KV Rangia GSS is located about 6 KM north-east of Rangia Town in Kamrup (Rural) District, Assam. Rangia town is about 56 KM from Guwahati Airport. The coordinate of project location is 26.45254N, 91.63934E.

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4. DESCRIPTION OF THE EXISTING NETWORK

220/132 KV Rangia GSS presently have two nos. of 100 MVA auto-transformer installed. The substation draws power at 220 KV from Salakati GSS through 220 KV Salakati-Rangia D/C Transmission Line and supplies load to 132 KV Nalbari GSS, 132 KV Sipajhar GSS, 132 KV Kamalpur GSS and 132 KV Barnagar GSS through 132 KV Transmission lines. The two nos. of 100 MVA transformers are getting almost saturated during the peak demand.

5. NECESSITY OF THE PROJECT

As noted above, 220/132 KV Rangia GSS caters load demand of several 132/33 KV GSS viz. Nalbari, Sipajhar, Kamalpur and Barnagar. During the peak load, both the 100 MVA transformers get loaded almost upto full capacity. Since load demand is increasing sharply with growing economic activity, it is necessary to augment the transformation capacity of the substation. Considering the prospect of load growth, augmentation from existing 2x100 MVA to 2x200 MVA shall be required to meet the load demand in upcoming 5-7 years.

6. BENEFIT OF THE PROJECT

Once the proposed augmentation is completed, it can cater to the increased load demand of the 132/33 KV Grid Substations viz. Nalbari, Sipajhar, Kamalpur and Barnagar.

7. PROJECT COST

Total cost of the project is estimated to be **Rs. 24.47 Crore**.

The cost break up is shown below:

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AUGMENTATION OF 2x100 MVA, 220/132 KV RANGIA GSS by 2x200 MVA AUTO-TRANSFORMER

Sl.	Particulars	Amount(In Rs. Crore)
1	Supply, erection and commissioning of transformer including NIFPS and mandatory spares.	19.73
2	Associated supply required(CT, Cable supply and laying/erection/commissioning)	1.68
3	Civil Works(Transformer pad, Fire protection wall)	1.89
4	**Total**	23.30
5	Contingency @ 5% on 23.30	1.17
6	**Grand Total(Say)**	**24.47**

All taxes and duties are included in the cost estimates. There shall be no additional cost for land procurement as the project is proposed to be implemented within the switchyard of existing Grid Substation.

8. PROJECT EXECUTION TIMELINE AND CASH FLOW REQUIREMENT

The project is proposed to be completed within eighteen months.

Cash flow requirement will be as follows:

1st Year (90%)	Rs. 22.02 Crore
2nd Year (10%)	Rs. 2.45 Crore

9. IMPLEMENTATION AND EXECUTION OF THE PROJECT

AEGCL has a separate project planning and development (PP&D) wing headed by the Chief General Manager (PP&D). The project will be implemented by the Chief General Manager (PP&D) and will be executed by the Deputy General Manager, LA T&T Circle, AEGCL, Narengi.

Execution shall be done in three parts:

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1) Procurement of the transformer, erection and commissioning.

2) Construction of Foundation and fire protection wall.

3) Supply of CT, Cables etc and erection/laying/commissioning of the same.

10. AVAILIBILITY OF LAND AND RIGHT OF WAY ISSUES

No additional land is required for the project as the new higher capacity transformers shall be installed replacing existing 100 MVA transformers in the 220/132 KV Rangia GSS of AEGCL. Therefore, land and/or RoW issues shall not arise in respect to the proposed project.

11. IMPACT ON ENVIRONMENT

The proposed project shall be executed in existing switchyard of 220/132 KV Rangia GSS. As such, there shall be no damage to environment in executing the project. Also, there will not be any issue regarding resettlement of persons as there is no additional land/RoW required in this project.

12. FOREST CLEARANCE

No forest clearance is required for this project.

13. FEASIBILITY OF THE PROJECT

As the project is proposed to be implemented in an area without any law and order problems and procurement of land will not be required nor any forest clearance will be required it will be feasible to execute the project within the completion time of 18 months.

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ASSAM ELECTRICITY GRID CORPORATION LIMITED
Regd. Off.: BIJULEE BHAWAN (FIRST FLOOR) PALTANBAZAR: GUWAHATI - 781001
CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3
PHONE 0361-2739520 Web: www.aegcl.co.in

NON DUPLICITY CERTIFICATE

This is to certify that the project namely "**Augmentation of 2x100 MVA, 220/132 KV Rangia GSS by 2x200 MVA Auto-Transformer**" proposed under NESIDS has not been proposed under any other scheme.

Sincerely,

(A K Nath)
Chief General Manager (PP&D), AEGCL
1st Floor, Bijulee Bhawan,
Paltanbazar, Guwahati -01

ASSAM ELECTRICITY GRID CORPORATION LIMITED
Regd. Off.: BIJULEE BHAWAN (FIRST FLOOR) PALTANBAZAR; GUWAHATI - 781001
CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3
PHONE 0361-2739520 Web: www.aegcl.co.in

LAND AVAILABILITY CERTIFICATE

This is to certify that the project namely "**Augmentation of 2x100 MVA, 220/132 KV Rangia GSS by 2x200 MVA Auto-Transformer**" proposed under NESIDS shall be done in available land of existing AEGCL substation.

Sincerely,

(A K Nath)
Chief General Manager (PP&D), AEGCL
1st Floor, Bijulee Bhawan,
Paltanbazar, Guwahati -01

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Annexure L

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: L **State: Assam**

Name of Project: Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji Longhup.

Project Description/Summary (not exceeding 200 words): The proposed Construction of road from CPDMDK (SH-35) road to Lower Tarapung via Longhup for the year 2021-22. This road is connected to NH 37 through the CPDMDK and Borjuri-Dolamara road, Due to non availability of fund it has not been constructed. It is proposed to construct this road to 3.75 m width by providing Interlocking Concrete Block Pavement.
After improvement of the road, people of this area will be benefitted specially of Longhup village, Upper Tarapung, lower Tarapung etc. It will help in agriculture product transportation and Horticulture, also will enhance the Socio-Economic status of the people influenced by this road.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 52.56Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	

S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**	
1	SITE CLEARANCE	0.18	The totalling in abstract of cost is not correct. Hence variation here wrt to project cost.
2	EARTHWOK	6.86	
3	BASE AND SUB-BASE COURSES	12.95	
4	CEMENT CONCRETE PAVEMENT (ICBP)	9.76	

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5	CROSS DRAINAGE WORKS	2.22	
6	DRAINAGE & PROTECTION WORKS	2.62	
7	RCC BRIDGE	7.35	
8	TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES	0.78	
	Total	42.72	
9	Add Gst .....=12%	5.04	
10	Add Hills Premium .....=10%	4.2	
11	Add Labour Cess .....=1%	0.42	
12	Add Quality Control .....=2%	0.84	
	Total	53.22	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected -- Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER comments are : a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		

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7	Important observations/comments of Prog. Division
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.

(Dated Signature & Name of
Under Secretary concerned)

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02/08/21

PUBLIC WORKS DEPARTMENT

सत्यमेव जयते

PROJECT CONCEPT PAPER

FOR

Name of work:- Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji via Longhup for the year 2021-22 under NESIDS

NAME OF PWD DIVISION :- KOHORA ROADS DIVISION
NAME OF DISTRICT : - KARBI ANGLONG
NAME OF CONSTITUENCY :- 17th Bokajan, LAC
NAME OF STATE : - ASSAM
ESTIMATED AMOUNT : - Rs. 52.56 Crore.
Rupees Fifty Two Crore Fifety Six Lacs Only

OFFICE OF THE EXECUTIVE ENGINEER, PWD
KOHORA ROADS DIVISION DOLAMARA, KARBI ANGLONG

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NON- DUPLICITY CERTIFICATE

Name of Project
Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji via Longhup for the year 2021-22 under NESIDS.

Certified that the above mentioned projects or any other part thereof are neither proposed nor taken up under any schemes/ programs like State Plan/MLAADS/PMGSY/ NLCPR/NEC/NABARD/RSVY/RIDF/MPNA/SIDF etc.

Executive Engineer, PWD
Kohora PWD Roads Division Dolamara

Executive Engineer, PWD
Kohora Roads Division
Dolamara, Karbi Anglong.

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Dispur.

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PROJECT CONCEPT PAPER
FOR

Name of work:- Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji via Longhup for the year 2021-22 under NESIDS

Name of Division :- PWD Kohora Roads

Name of LA Constituency:- 17 Bokajan

Name of District:- Karbi Anglong

Estimated Amount (Appx.) : Rs. 52.56 Crore.

1. INTRODUCTION AND AUTHORITY :- Assam, a state in north Eastern region, despite a number of existing tea, plywood, cement factories has been considered as pre-industrial state, though a wide range of industries could develop. The state is endowed with oil, gas, coal, limestone, forest wealth and extremely high hydro power potential offering scope of rapid industrial development. The valley portion consisting of fertile soil drained by two major river and its tributaries offering the people a bright prospect and wide options to cultivate and live upon. The land is ideally suited to produce whole range of plantation crops, spices, flowers and herbs much of which could be processed and exported to the rest of the country as well as abroad, but the same will not be possible without removing the communication bottlenecks. The population of the state is three crores nine lakhs. Assam's name is synonymous with fine tea, which is supplied to the rest of the country and also exported abroad. There are a total of 1012 nos of tea gardens in Assam and total annual production of tea is about 4,00,000 tones, compare to the national total of about 7,50,000 tones. The major mineral resources of Assam are coal, crude oil, natural gas, limestone etc. The said project falling in 17th Bokajan LA constituency in Karbi Anglong has been proposed to be taken up during the year 2021-22.

2. **SALIENT FEATURE OF THE PROPOSED PROJECT**:-The proposed Construction of road from CPDMDK (SH-35) road to Lower Tarapung via Longhup for the year 2021-22.. This road is connected to NH 37 through the CPDMDK and Borjuri-Dolamara road. Due to non availability of fund it has not been constructed. Hence it is proposed to construct this road to 3.75 m width by provididg Interlocking Concrete Block Pavement

3. SECTORIAL POLICY :- The Government of Assam has taken policy decision to upgrade the fair weather roads and also to convert all the timber bridges to RCC bridges funded by World bank, NEC, NABARD etc.

4. SUMMARY OF THE PROJECT :- Construction of road from CPDMDK (SH 35) road to Lower Tarapung via Longhup for the year 2021-22.. The total length of this road is 27.00 Km and the whole length is earthen road. It is proposed that the road width carriage way will be of 3.75 m width carriage way. (N B - Detailed estimate with actual estimated cost will be assessed only after detailed survey, sub-soil exploration and preparation of DPR.)

5. JUSTIFICATION FOR TAKING UP THE PROJECT :- The project concept paper has been prepared as per the Advice of Superintending Engineer. If this road is improved, People of this area will be benefitted specially of Longhup village, Upper Tarapung, lower Tarapung etc. It will help in agriculture product transportation and Horticulture, also will enhance the Socio-Economic status of the people influenced by this road.

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8. ABSTRACT OF COST (Approx.):-

Name of work:- Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji via Longhup for the year 2021-22 under NESIDS

Sl. No.	Item of Work	Amount in Rs.
1	SITE CLEARANCE	1855405.00
2	EARTHWOK	68600310.00
3	BASE AND SUB-BASE COURSES	129583301.00
4	CEMENT CONCRETE PAVEMENT (ICBP)	97669294.00
5	CROSS DRAINAGE WORKS	22251984.00
6	DRAINAGE & PROTECTION WORKS	26267430.00
7	RCC BRIDGE	73500000.00
8	TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES	783808.00
11	**Total**	**420511532.00**
12	Add GST .....=12%	50461384.00
13	Add Hills Premium .....=10%	42051153.00
14	Add Labour Cess .....=1%	4205115.00
15	Add Quality Control 2%	8410231.00

Total 525639415.00

(Say = 52.56 Crores)

(Rupees fifty two crore fifty six lakhs) only

Executive Egineer,PWD
Kohora Road Division

Executive Engineer, PWD
Kohora Roads Division
Dolamara, Karbi Anglong.

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Diphu.

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9. PHYSICAL AND FINANCIAL PHASING OF THE PROJECT:-

Project Implementation Schedule

Project Cost: Rs. 52.56 Crore.

Item/Activities (Mile Stone)	Project Implementation Schedule				
	2021-22		2022-23		
A. Physical	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr
1.SITE CLEARANCE					
2.EARTHWOK					
3.BASE AND SUB-BASE COURSES					
4.CEMENT CONCRETE PAVEMENT (ICBP)					
5.CROSS DRAINAGE WORKS					
6.DRAINAGE & PROTECTION WORKS					
7.RCC BRIDGE					
8.TRAFFIC SIGNS, MARKINGS AND ROAD					
B. FINANCIAL (Rs. In Crore)	7.90	14.66	12.00	12.00	6.00

10. IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM:- The implementing agency will be the Public Works Road Department of the Govt. of Assam, comprising of more than 1300 qualified and experienced graduate engineers, who have their credit of completion of more than 1500 nos of RCC bridges under various schemes like NABARD, NEC, PMGSY and state plan etc. The Executive Engineer of Kohora Roads Division will be the Nodal Officer and will be the in-charge of the project. The project is formulated under the control of Addl. Chief Engineer, PWD(R&B), Hills, Diphu, Govt. of Assam, with data base from the Executive Engineer, Kohora Roads Division and his team of Engineers.

10.1 STATUTORY CLEARANCE:- Since the proposed alignment mostly follow the existing road within DCRF (District Council Reserved Forest) and earthen track in hilly terrain with medium to thick jungles in NC (Non-Cladestal) area, hence, clearance from Forest Deptt. is not required. Pollution is a

10.2 AVAILABILITY of LAND:- Land acquisition is not at all necessary as the road will follow the existing alignment and widening both sides to single-lane carriageway is within the limit of the land necessary for the road.

10.3 IMPLIMENTATION SCHEDULE

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10.3.1 PHYSICAL

108.3.1(a) PRE CONSTRUCTION STAGE

(i) Survey and preparation of estimate : 30 days.
(ii) NIT and issue of work order : 45 days.

10.3.1(b) CONSTRUCTION STAGE :

(i) Commencement of work: 15 days from the date of issue of formal order.
(ii) Time of completion: 20 months

10.3.2 FINANCIAL

YEAR	FINANCIAL
2021-22	Rs. 22.56 Cr.
2022-23	Rs. 30.00 Cr.

11. MAINTENANCE ARRANGEMENT FOR PROJECT: Govt. of Assam has accepted the road maintenance policy and a Road Board is formed creating a dedicated road fund with an amount of Rs.1.50 crores to begin with maintenance of Road/bridges will be the subject of the Road Board.

11. PROJECT FORMULATION PROCESS: Once this concept paper is accepted in principle, detailed survey and design of road and culvert will be completed and the DPR will be submitted.

12. BLUE PRINT/DESIGN :- The Design of the road will be in accordance with the IRC Code of practice and ISI & ISO quality management system. The design of road work will also be in accordance with IRC Codes. Blue print the Bridge and Approach road will be submitted along with DPR. A site plan is enclosed with the Project Concept Paper.

13. Rate:- The rates of items proposed in the Project Concept Paper are as per SOR for RURAL ROADS for the year 2020-21.

Executive Engineer, PWD
Kohora Roads Division Dolamara

Executive Engineer, PWD
Kohora Roads Division
Dolamara, Karbi Anglong.

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DFA/115909 (Attachment : Annexure E_16361354498 33_377.pdf)

GPS Map

Name of work:- Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji via Longhup for the year 2021-22 under NESIDS



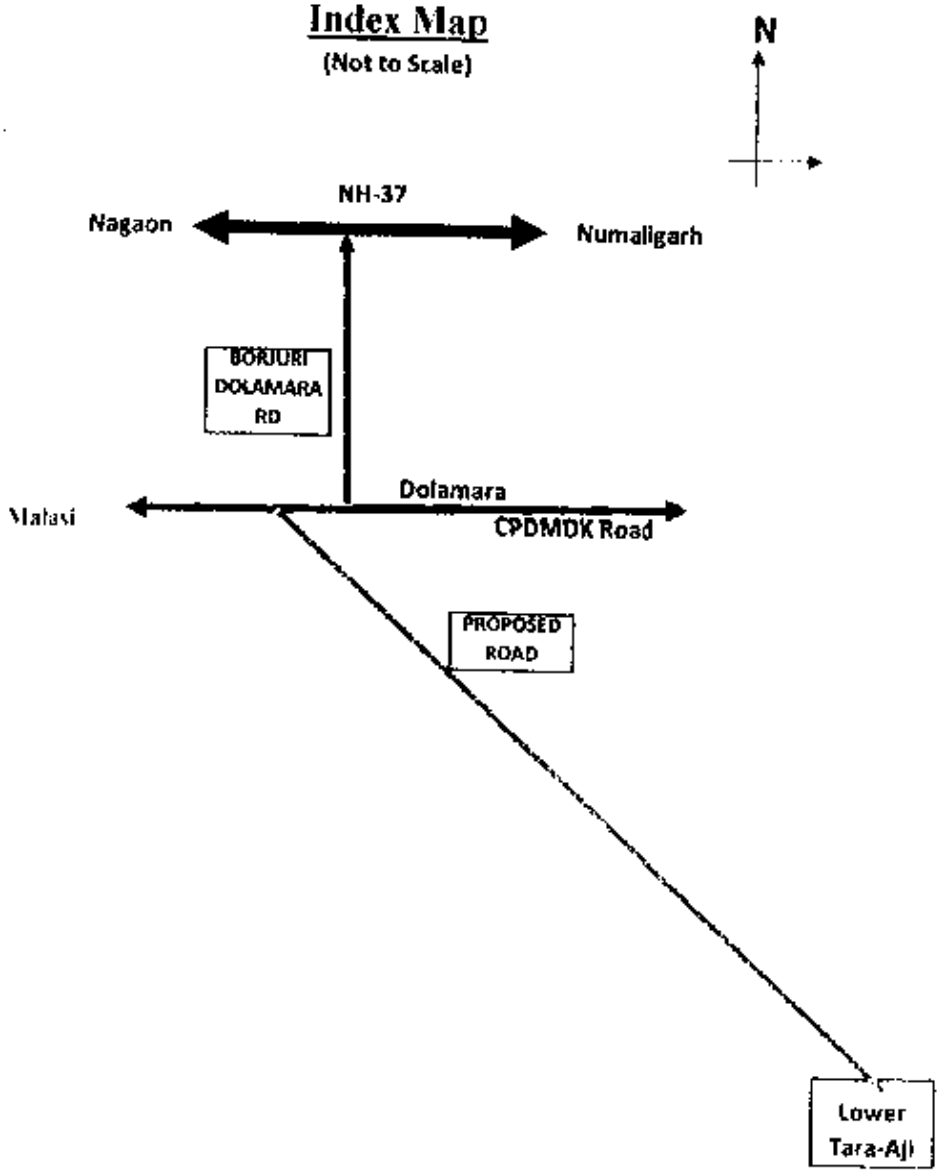
Executive Egineer, PWD
Kohora Road Division
Executive Engineer, PWD
Kohora Roads Division
Dolamara, Karbi Anglong.

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Name of work:- Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji via Longhup for the year 2021-22 under NESIDS

Index Map

(Not to Scale)



Executive Egineer PWD
Kohora Road Division
Executive Engineer, PWD
Kohora Roads Division
Dolamara, Karbi Anglong.

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Annexure M

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: M **State: Assam**

Name of Project: Construction of RCC Bridge No.3/1 on the road from NH-39 near Silonijan State Dispensary to Dhansiri Par Ghat via Panika basti (including approach)

Project Description/Summary (not exceeding 200 words): As timber is not available now a days in the market, repairing works of SPT bridges is not possible in due time. Conversion of bridge by Hume pipe culvert is not possible, as the water level of the river rises very high in the rainy season and flows in speed. As such the bridges are proposed to construct RCC bridge in place of SPT Bridge. The bridge connect many Tribal villages and also this road stretches is most important for the villagers for communication, carriage of essential commodities, life saving medicines, Medical facilities and Educational conveyance etc. In addition to these, the bridges are utmost essential for the movement of Police personal including Para-Military forces for controlling the insurgency problem.

	Stage 1: Retention/Selection of the Project		
1	**General Information**		
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 22.24 Crore	
1.2	**Whether lying in backward areas**	Not mentioned	
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity	
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):		
	Not mentioned		
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project	
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.	
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**		
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**	
1	Foundation	3.54	The totalling in abstract of cost is not correct. Hence variation in total cost here wrt to project cost.
2	Sub-Structure	1.08	
3	Super Structure	3.78	

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	Total=	8.4	
4	Add 1% for Soil test etc.	0.84	
5	Approaches and protection	9.6	
	Total=	18.84	
6	Add G.S.T. 12%	2.17	
7	Add Hills Premium 10%	1.81	
8	Add Labour Cess 1%	0.18	
	Grand Total=	23.00	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	

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6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER comments are : a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
7	**Important observations/comments of Prog. Division**
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.

(Dated Signature & Name of
Under Secretary concerned)

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(10)

GOVERNMENT OF ASSAM

PWD

PUBLIC WORKS DEPARTMENT

PROJECT CONCEPT PAPER FOR RCC BRIDGES UNDER NESIDS FOR THE YEAR 2021-22.

NAME OF WORK:-CONSTRUCTION OF RCC BRIDGE NO.3/1 ON THE ROAD FROM NH-39 NEAR SILONIJAN STATE DISPENSARY TO DHANSIRI PAR GHAT VIA PANIKA BASTI (INCLUDING 2.50KM+ 1.50KM =4.00KM APPROACH ROAD) UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22 .L=120.00 M.

Estimated Amount	:-	Rs.2224.32 L
Name of State	:-	*Assam.*
Name of District	:-	*Karbi Anglong.*
Name of Circle	:-	*PWD (R&B) Diphu Circle-I,Diphu*
Name of Division	:-	*PWD, Barpathar Road Division,Silonijan.*

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NON – DUPLICATION CERTIFICATE

Sl No	Name of scheme	Amount In Lakhs
1	Construction of RCC Bridge No 3/1 on the Road from NH-39 near Silonijan State Dispensary to Dhansiri Par Gaon via Pariha Basti covering 2.50km 1.50km 4.00km Approach Road) under North East Special Infrastructure Development Scheme(NESIDS) for the year 2021-22. (120.00 M	Rs.2224.32 L

Certified that the work mentioned above are not included in any other schemes like NABARD PMGSY NLCPR RIDF CFR State Plan etc therefore the said work may be included under the ambit of the scheme

Asstt Executive Engineer PWD
Bamunpukur Road Sub-Division
Silonijan

Executive Engineer PWD
Bamunpukur Road Division
Silonijan

Countersigned

Superintending Engineer PWD
(RoB), Diphu Circle-I,Diphu.

Recommended

27/05/2021

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Diphu.

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ABSTRACT OF COST

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Dphl.

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PROJECT CONCEPT PAPER

I. INTRODUCTION :-

The State and the scope: -

Assam, a State in the North Eastern region, despite a number of existing Tea-Estate, plywood and cement factories has been considered as basically pre-industrial though a wide range of industries are developed. The State is endowed with rich sources of oil, gas, coal, lime stones, forest wealth and extensive high hydropower potential offering scope of rapid industrial development. The valley portion consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, fruits, flowers and herbs, much of which could be processed and exported to the rest of the country as well as abroad but the same will not be possible without removing the communication bottlenecks.

The population of the state is approx. three crores. Assam's names synonymous with fine tea which is exported to states within India as well as aboard. There are total 1012 tea gardens in Assam and the total annual production of tea from them is about 4,00,000 tones compared to national total of about 7 tonnes is yielded. The major mineral resources of Assam are Coal, Crude oil, Natural gas, limestone etc.

The state has a number of wildlife sanctuaries and temples of International capture attracting tourist from within the country as well aboard.

In spite of such high potential, the country of the state is till simple, heavy deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenarios in Assam. The existing road network in the State, with the inadequate capacity, poor riding quality, weak pavement, poor geometries, submersible stretches, semi permanent timber bridges etc are needs to be improved, upgraded and converted where necessary.

Apart from the bad condition of roads in the state the mighty Brahmaputra bisects the state to North and South. Serpentine rivers flow down the hill with velocity joined by the rivulet and streams and finally meet with the mighty river. In the process, the East West road have innumerable bridges gaps compare with that of the North-South roads. Presently these bridge gaps are provide with semi permanent timber(SPI)Bridges. Some of these SPI bridge are in die condition of disrepair and may result in loss to life and materials. Bridging Assam's river need topmost priority. It required a higher investment which is beyond the purview of the State. PMGSY envisages conversion of SPI bridge to RCC bridge to a length of 15 m at one end now upto 30 m on rural roads only.

The total nos of timber bridges in Assam were 5215 out of which some of them had already been converted and some are in the process of conversion.

A minimum amount of rupees 10 crore is required annually to repair these timber bridges where as our total budgetary provision for maintenance is rupees 2 crore only. Some of those SPI bridges have been washed away during recurring flood and are not rebuilt due to the financial crunch. Moreover the density of forest in Assam is decreased to 28% creating ecological and socio-economic imbalance for the Hon'ble Supreme Court has banned further deforestation. As a consequence to non availability of finance to repair the bridges most of the bridges in Assam are in dire state of disrepair and some of these are non-existent now. The communication scenario in Assam is very gloomy with no through rural roads in the districts. The place utility of raw materials can't be provided and there after time utility through speedy transport of finished product is not evaluated. This has a serious impact in development and promotion of social activity like education, health and promotion of tourism, postal service and other poverty alleviation programmes. Since accessibility can't be established due to these bridge gaps other development activities could make the headway.

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2. SECTORAL POLICY :-

3. JUSTIFICATION FOR TAKING UP THE PROJECT AND BENEFITS:

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4. PHYSICAL & FINANCIAL PHASING OF THE PROJECT YEAR-WISE

Project Implementation Schedule.

Items/ Activities (Milestones)	YEAR 2021-22		2022-23			
	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
(i) PHYSICAL						
1 Dismantling of existing SPI bridges Construction of sub-way etc.						
2 Excavations.						
3 Main Structure						
4 Approaches & protection work etc.						
(ii) Financial (Rs. In Lakh)						
Bridge amount	114.80	166.80	476.80	481.80	354.12	2224.32

5. COST ESTIMATE :-

1. **Name of Works** - *"CONSTRUCTION OF RCC BRIDGE NO.3/1 ON THE ROAD FROM NH-39 NEAR SILONIJAN STATE DISPENSARY TO DHANSIRI PAR GHAT VIA PANIKA BASTI, L=120.00 M"*

The costing assessment for the project as said detailing as below :-

(A)

(B) For Bridge No. 3/1 Length = 120.00 Rm.

- Foundation ..... Rs. 358.40]
- Sub-Structure ..... Rs. 108.00]
- Super Structure ..... Rs. 372.60]

Total Rs.839.00]

- Add 1% for Soil Test etc. ..... Rs. 8.40]
- Approaches and protection ..... Rs. 961.00]

Total Rs. 1808.40]

- Add G.S.T @ 12% ..... Rs. 217.00]
- Add IT @ 4% (on 60%) ..... Rs. 180.84]
- Add Labour Cess @ 1% ..... Rs. 18.08]

Grand total Rs. 2224.32]

(Rupees Twenty Two Crore Twenty Four Lakhs Thirty Two Thousand Only)

Executive Engineer

Asstt. Chief Engineer
PWD (R&B), Hills, Assam, Diphu

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The costing assessment for the project as said detailing as below

6. IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM :

7. STATUTORY CLEARANCE (From Forest and Pollution Control Board s.

8. AVAILABILITY OF LAND:-

9. Labour and Equipment:-

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10. SCHEDULE OF RATE:-

The project has framed on the basis of the schedule of rates on Rural Roads for the DPR [illegible] Assam for the year 2021-22, Items not covered by the SOR the analysis of rates of [illegible] NCB basis Market rate as obtained the concerned [illegible]

11. IMPLAMENTATION SCHEDULE:-

The project proposing for implementing the Bridge works will be after getting [illegible] sanction from competent authority and that the work will be executed through contractor after [illegible] by inviting competitive bids and partial execution of the works through departmental procedure as per norms.

11.1 PHYSICAL :-

11.1.1.a. **Pre construction stage** :-

- Survey, Soil Investigation and design of the structures and submission of DPR :- 1 month
- Time & Scheduling of the project :- 2 month (Approx.)
- NOC and issue of Work Order :- 2 month.

11.1.1b. Construction Stage :-

- Commencement of work :- 1 month from the date of order to proceed with the Work (Formal Work Order
- Time of Completion :- 18 months.
- Working Season :- The working season is from September - October to March - April subject [illegible] (Depending on the nature of the project).

11.2 Financial:-

Year	Financial
2021 - 22	Rs. 1334.591
2022 – 23	Rs. 889.73 4

Progress of works will be reported on quarterly basis on prescribed format furnished by DONER through normal procedure. During any field inspection by DONER official etc. the Engineer-in-Charge of the project under PWD Borpeckhar Road Division, will accompany them for the purpose of verification and evaluation of implemental aspect of the project. The Utilization Certificate of the fund so released will also be furnished as and when required by DONER and as a convention will be given by advertisement in News Paper and Web site by signature etc.

12. MAINTAINANCE ARRANGEMENT FOR POST CONSTRUCTION OF THE PROJECT :-

Government has accepted the road classification policy and a state Board (NSRB) is formed for getting a dedicated road fund with a corpus of Rs. 60 Crore as was to begin with. Maintenance of [illegible] and [illegible] Bridges will also be the responsibility of the Road Board.

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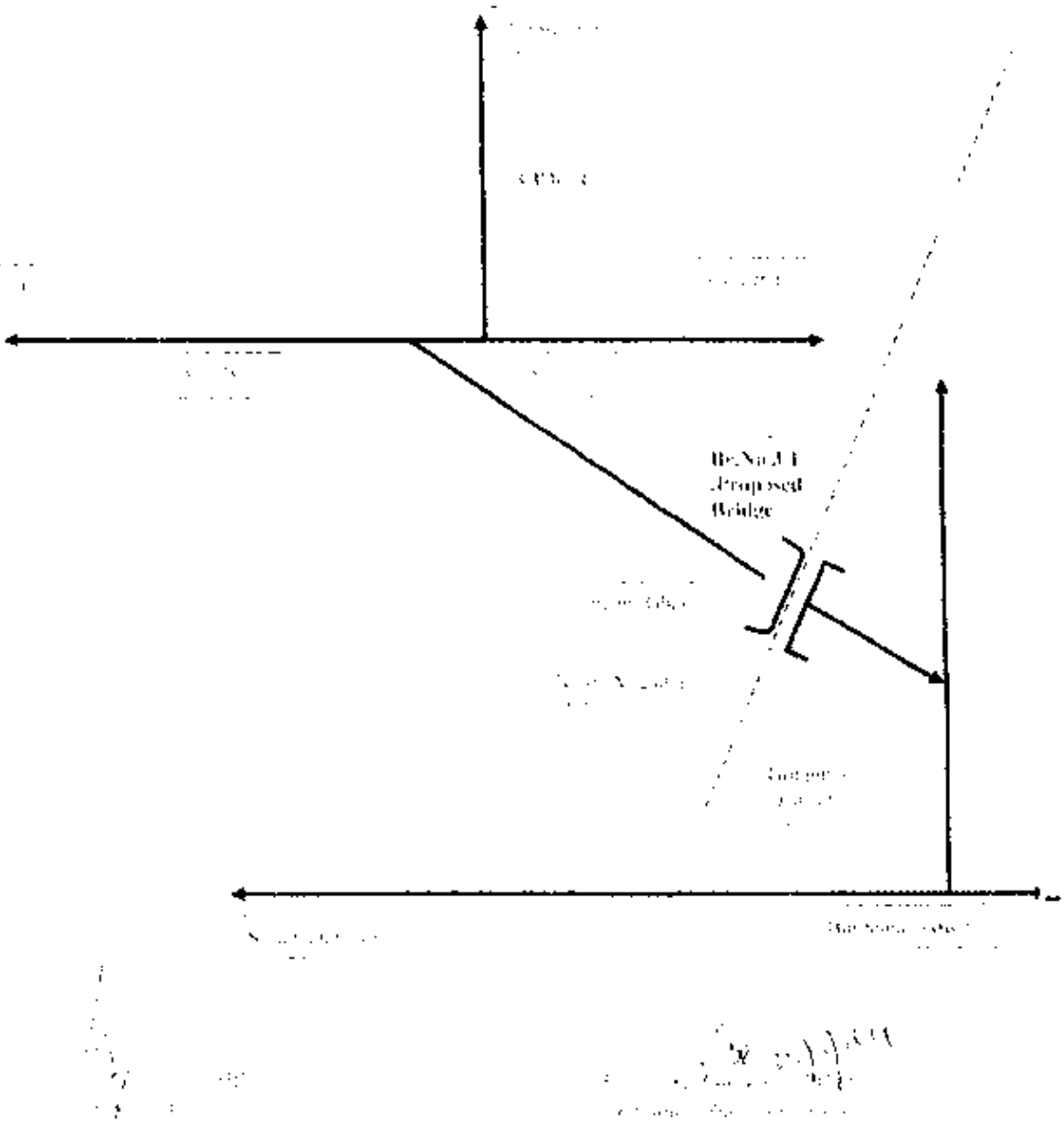
13. PROJECT FORMULATION PROCESS:-

14. DESIGN AND BLUE PRINT:-

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NAME OF WORK:- CONSTRUCTION OF RCC BRIDGE NO.3-1 ON THE ROAD FROM NH-39 NEAR SHEONTAN STATE DISPENSARY TO DHANSIRI PAR GHAT VIA PANIKA BASTI (INCLUDING 2.50KM+ 1.50KM +4.00KM APPROACH ROAD) UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22 A.A=120.00 M.

Index Map



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Annexure N

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: N **State: Assam**

Name of Project: Improvement of road from Hidipi Bazar at DS road to Bokajan via Ghandhipur (L=18.00 KM)

Project Description/Summary (not exceeding 200 words): The length of the road from 0.00 Km to 18.00 Km. is passing through many Tribal and Non- Tribal villages. The damaged Surfaced road at many stretches has undergone into submerged at low laying areas with huge undulation creating complete damage to base/sub-base layers of the road which need complete raising up the formation of the said road. And also this road stretches is most important for one of the people of the villagers and for communication, carriage of essential commodities, life saving medicines, Medical facilities and Educational conveyance etc. In addition, this road is also a shortage distance route to Bokajan CCI factory from Hidipi as the Bokajan CCI Limestone Quarry is located around 7 km from Hidipi Bazar area which can facilitate the people of the locality to improve in their Socio-Economic status.
Presently the road is unserviceable due to inadequate cross drainage, water logging etc. In order to maintain proper grade, camber and to free flow of water, it is necessary to construct this road with proper alignment, cross drain etc.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 26.23 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**

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1	Clearing and grubbing land including uprooting, cutting trees and bamboo	0.09	
2	Scarifying of existing Bituminous surface (for 10 km)	0.06	
3	Earthwork in Embankment	0.54	
4	Earthwork in excavation	0.35	
5	Construction of earth work in sub grade and shoulder	0.93	
6	Construction of granular sub-base (GSB-Gr-II)	2.2	
7	Construction of WMM 1st Layer	3.56	
8	Construction of WMM 2nd Layer	3.56	
9	Prime Coat	0.19	
10	Take Coat	0.07	
11	DBM	4.14	
12	BC	2.86	
13	Pucca Drain	0.6	
14	Retaining Wall	0.45	
15	Construction of NP3 1000 mm dia hume pipe culvert (48 Nos)	1.35	
16	Traffic Signs, Road Marking, RCC Guard post, Cresh Barrier etc	0.3	
17	Preparation of DPR including survey @ Rs. 40,000.00/KmL/5	0.07	
	Total Cost of project =	21.32	
18	Add 12% for GST ..... =	2.56	
19	Add 10% Hills Premium ..... =	2.13	
20	Add 1% Labour Cess ..... =	0.21	
	Total =	26.23	

1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**

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	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER comments are : (a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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Sl. No-(11)

GOVT. OF ASSAM

PUBLIC WORK DEPARTMENT

OFFICE OF THE EXECUTIVE ENGINEER, PWD, BORPATHAR ROAD DIVISION
SILONIJAN, KARBI ANGLONG, ASSAM.

PROJECT CONCEPT PAPER FOR

"Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhipur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"

ESTIMATED AMOUNT : - Rs. 2623.00 LAKHS

Name of Implementing Agency :- PWD(ROADS) Assam.

Name of Division :- Borpathar PWD (Roads) Division, Silonijan.

Name of District. :- Karbi Anglong, Assam.

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NON – DUPLICACY CERTIFICATE

Certified that the work "Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhipur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"
is not included in any other schemes like NABARD/PMGSY/NLCPR/RIDF/CRF/ State Plan etc. therefore, the said work may be included under the any of the scheme.

(P. Bey)
Asstt. Executive Engineer, PWD
Sarihajan Roads Sub – Division.
Sarihajan.

(P.Saikia) 29/9/2021
Executive Engineer, PWD,
Borpathar Road Division.
Silonijan.

Addl. Chief Engineer
PWD (R&B), Assam, Diphu.

Countersigned

Superintending Engineer,PWD
(R&B), Diphu Circle-I, Diphu

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Name of Works - *"Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhipur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"*

ABSTRACT OF COST

Sl.No.	Item	Amount in Lakhs
1.	Clearing and grubbing land including uprooting, cutting trees and bamboo	Rs. 8.60
2.	Scarifying of existing Bituminous surface (for 10 km)	Rs. 6.00
3.	Earthwork in Embankment.	Rs. 54.00
4.	Earthwork in excavation	Rs. 35.00
5.	Construction of earth work in sub grade and shoulder.	Rs. 93.50
6.	Construction of granular sub-base (GSB- Gr-II)	Rs. 220.00
7.	Construction of WMM 1ST Layer	Rs. 356.40
8.	Construction of WMM 2ND Layer	Rs. 356.40
9.	Prime Coat	Rs. 18.80
10.	Tack coat	Rs. 7.00
11.	DBM	Rs. 414.00
12.	BC	Rs. 285.60
13.	Pucca Drain	Rs. 60.00
14.	Retaining Wall	Rs. 45.00
15.	Construction of NP3 1000 mm dia hume pipe culvert (48 Nos).	Rs. 135.00
16.	Traffic Signs, Road Marking, RCC Guard post, Cresh Barrier etc	Rs. 30.00
17.	Preparation of D P R including survey @ Rs. 40,000.00/Km (S	Rs. 7.20
	Total Cost of project =	**Rs. 2132.50 Lakhs**
	Add 12% for GST ..... =	**Rs. 255.90 Lakhs**
	Add 10 % Hills Premium ..... =	**Rs. 213.25 Lakhs**
	Add 1% Labour Cess ..... =	**Rs. 21.33 Lakhs**
	Total =	**Rs 2622.98 Lakhs**
	Say =	**Rs. 2623.00 Lakhs**

(Rupees Twenty Six Crores and Twenty Three Lakhs) Only.

Asstt. Executive Engineer, PWD
Sarihajan Roads Sub-Division.
Sarihajan.

Executive Engineer, PWD
Borpathar Road Division.
Silonijan.

Addl. Chief Engineer
PWD (R&B), Dibrugarh, Assam, Dibrugarh

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PROJECT CONCEPT PAPER

1. INTRODUCTION :-

The State : -

Assam a state in the North Eastern Region, despite a number of existing tea, plywood cement factories, has been considered as basically pre-industrial through a wide range of industries could develop. The state is endowed with rich sources of oil, gas, coal, limestone forest wealth and extremely high hydropower potential offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, flowers and herbs much of which could be processed and exported to the rest of the country as well as abroad, but the same will not be possible without removing the communication bottlenecks.

The state has a numbers of wide life sanctuaries and temples of international repute attracting tourists from within the country as well as aboard. In spite of such high potential, the economy of the state is still simple, heavily deficit and dependent on the rest of the country for many basis needs. This can be attributed to the poor communication scenario in Assam. The existing road network in the state with the inadequate capacity, poor riding quality, weak pavement, poor-geometries, submersible stretches, semi permanent timber bridge, etc. This has a serious impact in the development and social activity in the region.

The District:

Karbi Anglong literally means Karbi Hills, lies in the middle of Assam state, sandwiched between the Brahmaputra valley in the North and the Barak valley in the South. Essentially a hilly area, its low hills link the Meghalaya state on the western side and the state of Nagaland on the eastern flank. The district with dense tropical forest covered hills and flat plains is situated between 25° 58' N to 26° 35' N Latitude and 92° 10' to 93° 50' E Longitude.

The dominant tribes are the Karbis who mostly live in the hills being dependent on slash and burn cultivation. The 10, 434 Sq. Km area holds a population of 880 thousand (as projected for 2005) whose decadal growth rate stands at 22.72%, with an average population of 283 persons per village.

The density of population is 78 per Sq. Km. In spite of heavy influx from the over populated main land, the indigenous tribes constitute 55.69% of the population. Only 11.30% of the populations live in the urban areas while the rest live in 2503 villages in the rural areas.

The N.F. railway passes through the district touching only a few points along the boundary. They are Hawaipur, Lumsakhang, Botlangphar, Langsohet, Silalang, Diphu, Dokdolor, Dhansiri Rongapahar, Khotkhowa and Bokajan.

The district, a mix of plains and hills geographically and a treasure trove for various agricultural products and the land is ideally suitable to produce medicinal plants, and fruits like orange, pineapple banana, crops like paddy, mustard, maize, etc. and not mention the other two major agro-forestry produce, cane and bamboo but the same will not be possible removing the communication bottlenecks.

This enchanting hills district with its diversely rare flora and fauna has remained untouched and undiscovered. Mother nature has indeed been very generous to Karbi Anglong yet its potentialities for tourism remain sadly untapped.

In spite of such high potential, the economy of the district is still implied, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenario in the district. The existing road network in the district has inadequate capacity, poor riding quality, weak pavement, poor geometries, submersible stretches, semi permanent timber bridges etc.

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2. SECTORAL POLICY :-

This Project Concept Paper has been prepared as per the State Govt Circular Notification The proposed road is out of those specified fund resources which had not been included in PMGSY-Bharat Nirman (General & ADB), ARIASP, RIDF-XXV etc. and they have been selected on priority basis area wise with the broad objective of ensuring speedy development of infrastructure viz. Road network etc. in the North Eastern region

3. SUMMARY OF PROJECT :-

The Road from Hidipi Bazar at DS road to Bokajan via Gandhipur is proposed under North East Special Infrastructure Development Scheme (NESIDS) has been taken up for the year 2021-22 under PWD, Borpathar Road Division, Karbi Anglong , Assam

The road started from Hidipi Bazar at 8th Km of DS road and passes through several tribal & non tribal villages like Billgaon, Munchom village, Angle Bosti, Gandhipur, Bornanthi etc and ends at Bokajan CCL, Karbi Anglong District. The road is located under the Bokajan Development Block. The surrounding village are rich of Agriculture, Horticulture and forest product and after the completion of the project, the per capita income of the adjoining villagers will go up and help for increasing the National income

The total length of the road project is 18.00 Km. and after improving the whole length of the road, it will come to the good utility of the people

Estimate Amount as assessed on physical verification on site is Rs. 2623.00 Lakhs

4. JUSTIFICATION FOR TAKING UP THE PROJECT AND BENEFITS :-

"Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhipur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22" is proposed under North East Special Infrastructure Development Scheme (NESIDS) as per the State Govt. Circular,Notification and as per the Guidelines provision for proposal of schemes under NESIDS circulated. The length of the road from 0.00 Km. to 18.00 Km is passing through many Tribal and Non- Tribal villages. The damaged Surfaced road at many stretches has undergone into submerged at low laying areas with huge undulation creating complete damage to base/sub-base layers of the road which need complete raising up the formation of the said road. And also this road stretches is most important for one of the people of the villagers and for communication, carriage of essential commodities, life saving medicines, Medical facilities and Educational conveyance etc. In addition, this road is also a shortage distance route to Bokajan CCL factory from Hidipi as the Bokajan CCL Limestone Quarry is located around 7km from Hidipi Bazar area which can facilitate the people of the locality to improve in their Socio-Economic status.

Presently the road is unserviceable due to inadequate cross drainage, water logging etc. In order to maintain proper grade, camber and to free flow of water, it is necessary to construct this road with proper alignment, cross drain etc

The Livelihood of the people of this vicinity mainly depends upon agriculture, forest product and cottage industry . After completion of the project the Socio-economic infrastructure of the people of this area will be developed

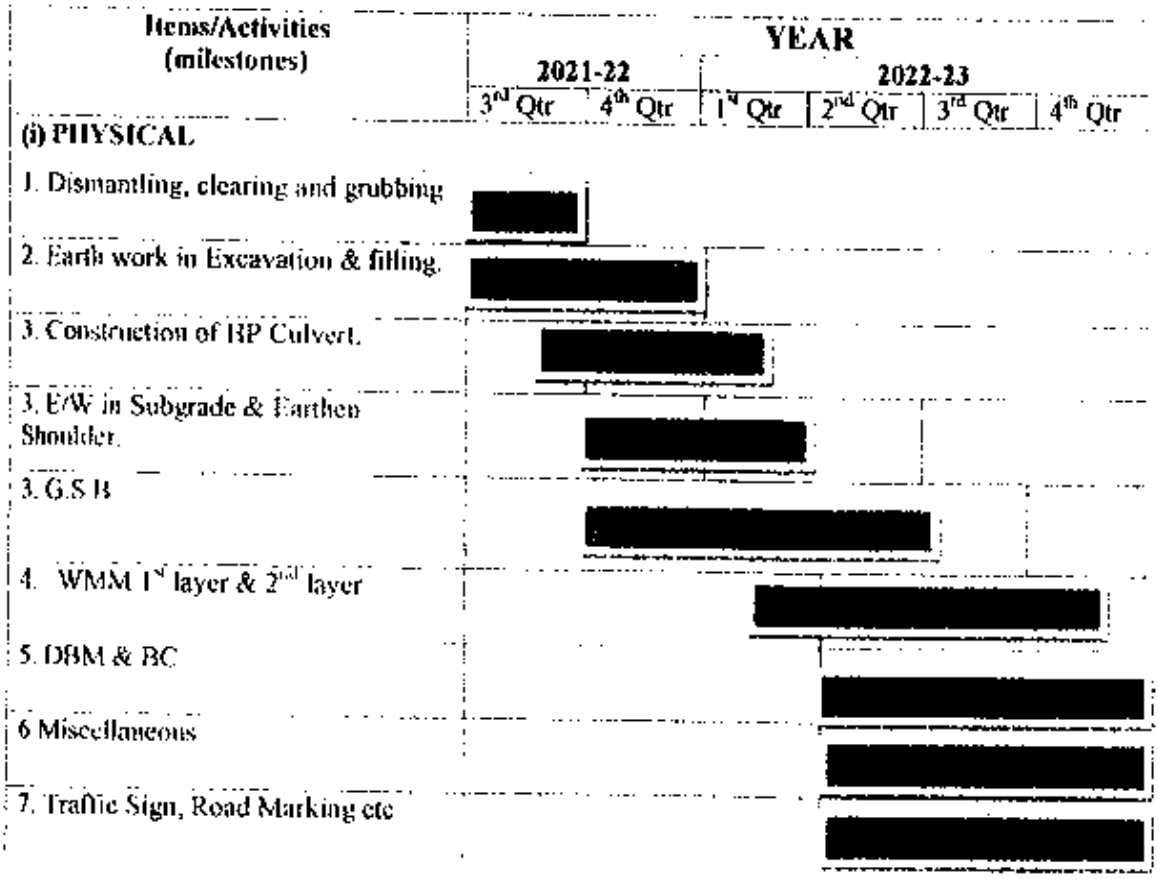
The climatic condition of this area is basically hot (Between 36 c to 36 c during summer and average minimum temperature during winter remain 14 c to 22 c) The rain fall is generally high and between 260 mm to 360 mm.

In addition to these, the road is utmost essential for the movement of Police personal including Para-Military forces for controlling the insurgency problem.

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5. PHYSICAL & FINANCIAL PHASING OF THE PROJECT YEAR-WISE

Project Implementation Schedule for Pavement



(ii) Financial (Rs. In Lakh)

Pavement	300.00	450.00	450.00	450.00	500.00	466.00	2623.00

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6. COST ESTIMATE :-

Name of Works :- ***"Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhapur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"***

The costing assessment for the project as said detailing as below :-

(A) The cost of the Pavement considered the length of 18.00 Km.

Sl.No.	Item	Amount in Lakhs
1	Clearing and grubbing land including uprooting, cutting trees and bamboo	Rs. 8.60
2	Scarifying of existing Bituminous surface (for 10 km)	Rs. 6.00
3	Earthwork in Embankment	Rs. 54.00
4	Earthwork in excavation	Rs. 35.00
5	Construction of earth work in sub grade and shoulder.	Rs. 93.50
6	Construction of granular sub-base (GSB- Gr-II).	Rs 220.00
7	Construction of WMM 1st Layer	Rs. 356.40
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9	Prime Coat	Rs. 18.80
10	Tack coat	Rs. 7.00
11	DBM	Rs. 414.00
12	BC	Rs. 285.60
13	Pucca Drain	Rs. 60.00
14	Retaining Wall.	Rs. 45.00
15	Construction of NP3 1000 mm dia hume pipe culvert (48 Nos)	Rs. 135.00
16	Traffic Signs, Road Marking, RCC Guard post, Cresh Barrier etc	Rs 30.00
17	Preparation of D P R. including survey. @ Rs. 40,000.00/Km L.S	Rs. 7.20
	Total Cost of project =	**Rs. 2132.50 Lakhs**
	Add 12% for GST ..... =	**Rs. 255.90 Lakhs**
	Add 10 % Hills Premium ..... =	**Rs. 213.25 Lakhs**
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	Total =	**Rs 2622.98 Lakhs**
	Say =	**Rs. 2623.00 Lakhs**

(Rupees Twenty Six Crores and Twenty Three Lakhs) Only.

Asstt. Executive Engineer, PWD
Sarihajan Roads Sub-Division.
Sarihajan.

Digitally Signed
Chief Engineer,
PWD (R&B), Hills, Assam, Diphu

Executive Engineer, PWD
Borpathar Road Division.
Silonijan

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7. IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM :-

The implementing agency will be the Public Works Department of the Govt. of Assam comprising more than 7000 Junior Engineer and 1300 qualified, experienced graduate engineers who have to their credit, complation of more than 1400 Nos of RCC Bridges under various projects like World Bank, NABARD, loan assistance, PMGSY / Bharat Nirman Regular, ADB I, NEC, Border Roads Development schemes and state plan

The Executive Engineer, PWD, Borpathar Road Division, Silonijan will be the Nodal Officer and the project will be implemented under the supervision of the Borpathar Road Division as per its jurisdiction. This Project is formulated as per direction of the Addl. Chief Engineer, PWD (R&B) Diffu, Assam with data base from the Executive Engineer, PWD Borpathar Road Division and his team of Engineer and field staff.

8. STATUTORY CLEARANCE (From Forest and Population Control Board):-

Since this is a road project along and within the existing alignment, clearance from forest is not necessary.

Pollution is non-entity, as such permission from pollution control board is not necessary.

9. ROAD AT A GLANCE :-

Name of Road - ***"Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhipur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"*** **Name of District** - Karbi Anglong
PWD Division - Borpathar PWD Road Division
Location - Latitude 25° 26' North
Longitude 92° 93' East
Terrain - 0.00 Km ----- 18.00 Km ------Rolling Terrain
Alignment - Existing alignment will serve the purpose.

Existing route features :-

Total Length	:- 18.00 Km
Starting point	:- At Hidipi Bazar 8th Km of Diffu Sarbajanik DS road
Ending point	:- At Bokajan CC1 NH-39, Dist - Karbi Anglong
Lane	:- Single Lane (3.75 m width)
Type of Road	:- Surfaced Graveled.
Formation	:- 7.50 m
CD Structure	:- 18 Nos (38 Nos single, 6 Nos double & 1 Nos Three opening of 1000 mm dia - Nos HP Culvert
Bridge	:- Nil
Important Places	:- Hidipi Bazar, Mumchom Basti, Bollgaon Angle Basti, Gandhipur, Borangathi, Bokajan CC1 etc

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10. AVAILABILITY OF LAND :-

Land acquisition is not at all necessary, as the road will flow the existing alignment, which is presently on PWD land Govt. land

Material Survey :-

The construction materials can be obtained as follow :-

(i) Soil for Earthwork :- Nearby borrow pits in an around five Km from worksite
(ii) GSB :- Silonijan quarry.
(i) Chips Crushed stone metal etc.:- Rangajan Plant

11. Labour and Equipment :-

(a) Labour - Normal man powers required for the project are available in and around the worksite.

(b) Equipment - Necessary construction equipment will be borne by the contracting agency. Available Departmental equipment could also be utilized as and when felt necessary on hire charge basis, subject to availability on good condition

11.1 SCHEDULE OF RATE :-

The project has framed on the basis of the Schedule of Rate (SOR) for State Highways and Major District Roads for the year 2018-19 for all division under Assam PWD current in the state Item not covered by the SOR are analysed on the basis of either SOR or on Market value whichever the case may be.

12. IMPLAMENTATION SCHEDULE :-

The physical phasing for implementing the road project will be after getting formal sanctioned from competent authority and that the work will be executed through contractor after finalization of national competitive bids and formal allotment of the works through departmental procedure as follows

12.1 PHYSICAL :-

12.1.1. a. <u>Pre construction stage</u> :-

(i) Survey, Soil investigation and design of the structures and submission of DPR :- 2 month
(ii) Formal Sanction of the project - 2 months (Approx.)
(iii) NIT and issue of Work Order :- 2 months

12.1.1.b. Construction Stage :-

(i) Commencement of work :- 15 days from the date of order to proceed with the Work - Formal Work Order
(ii) Time of Completion :- 18 months
(iii) Working Season :- The working season is from September - October to March - April subject to weather condition and coming of monsoon

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12.2. Financial:-

Year	Financial
2021 – 22	Rs. 1500.00 Lacs
2022 – 23	Rs. 1123.00 Lacs

Progress of works will be reported on quarterly basis on prescribed format furnished by DONER through departmental procedure. During any field inspection by DONER official etc. the Engineer-in-Charge etc of the project under PWD Borpathar Road Division will accompany them for the purpose of monitoring and evaluation of implementation of the project. The Utilization Certificate of the fund release and received will also be furnished as required before subsequent release of fund. Wide publicity of the project as required by DONER and as a convention will be given by advertisement in News Paper and providing signboard etc

13. MAINTAINANCE ARRANGEMENT FOR POST CONSTRUCTION OF THE PROJECT :-

Govt. of Assam has accepted the road maintenance policy and a road board i.e. ASRB is formed creating a dedicated road fund with a corpas of Rs. 60 Crores was to begin with. Maintenance of the other road component viz. Bridges will also be the subject of the Road Board.

14. PROJECT FORMULATION PROCESS :-

Once this concept paper is accepted in principle detail survey and design of road and Bridge culvert will be completed and DPR will be submitted

15. DESIGN AND BLUE PRINT :-

The design of the Road works is in accordance with IRC code of practices and ISI and ISO Quality Management Systems. The design of other works viz. Drains, CD's and protection work etc are also made following the above codes and latest GOI guidelines. Blue prints for drawings of pavement and other works along with sketch map of the location of the road stretch will be submitted along with the DPR. The arranged of water supply during the construction will have to arranged by the contractor. The provision hence not included in this estimate

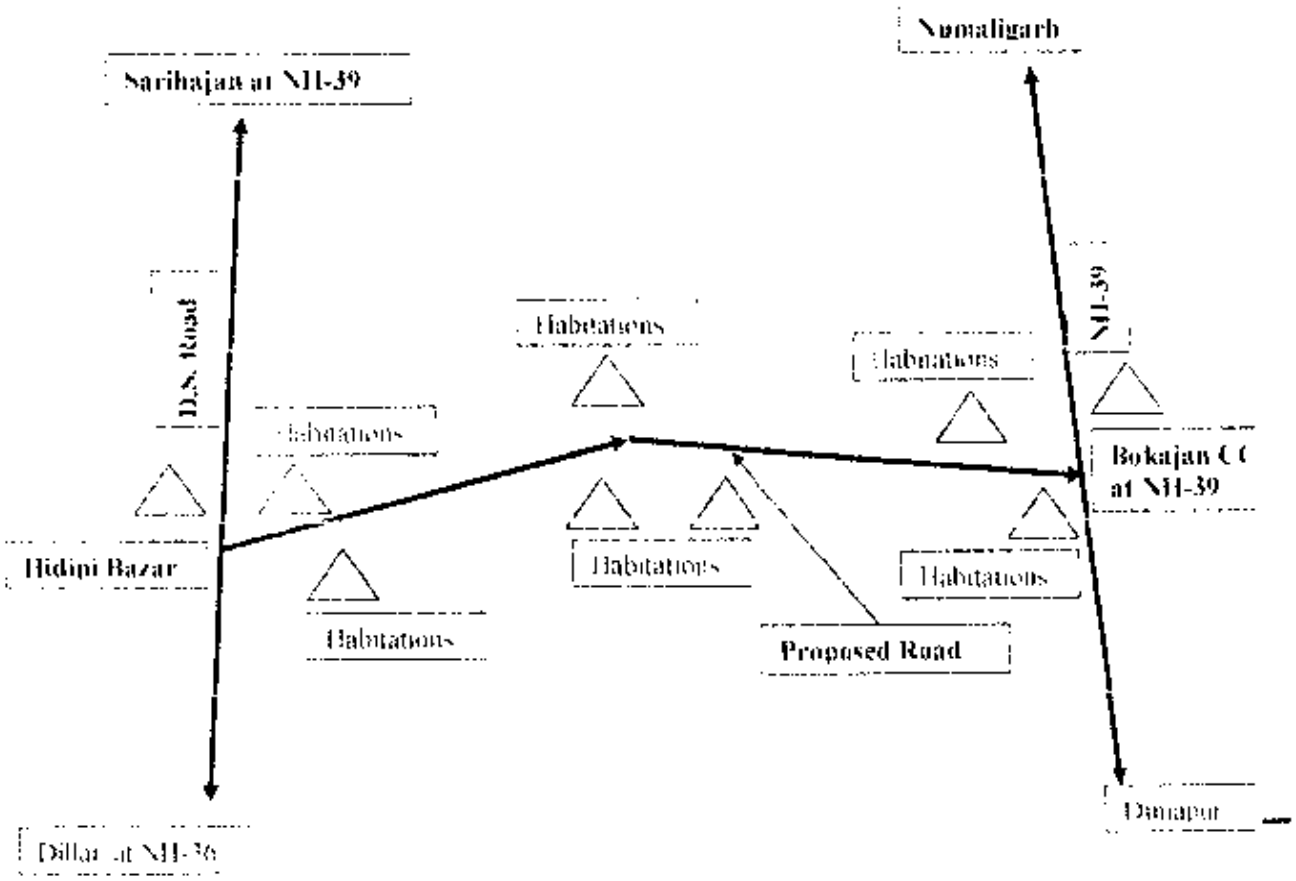
Asstt. Executive Engineer, PWD(R)
Sarthajan Roads Sub-Division,
Sarthajan.

Executive Engineer, PWD(R)
Borpathar Road Division.
Silonijan.

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Name of Works - *"Improvement of road from Hidipi Bazar at DS road to Bokajan via Gandhipur."(L=18.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"*

INDEX MAP



Asstt. Executive Engineer, PWD
Saribajan Roads Sub-Division, Saribajan

Executive Engineer, PWD
Baipathar Roads Division, Silchar

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Annexure O

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: ○ **State: Assam**

Name of Project: Improvement of road from 5th KM of BBDC road to 4th KM of Rishakhidi road (Ch. 0.00 KM to Ch. 8.00 KM).

Project Description/Summary (not exceeding 200 words): This road is an earthen road constructed in 1975. This road provides the connectivity to more than 10 (Ten) Villages such as Langsomepi, Sarthe Terang, Sar Tokbi, Arlong Pira, Rishakhidi, Pung Adong, Masi Terang, Borjan Rongpi Gaon, and Tokolangso etc. The road starts from 14th Km of BBDC Road and ends at Murphuloni of Golaghat district. This is the only route which connects with the district head quarter Diphu. The existing road has been damaged due to incessant rain and submerged at several stretches due to inadequate or unserviceable cross drainage, resulting over topping, water logging. Some times storm water coming down from the hill and damages the road every year during monsoon. To improve the road to proper grade, camber & to free flow of water.

	Stage 1: Retention/Selection of the Project		
1	**General Information**		
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 22.89 Crore	
1.2	**Whether lying in backward areas**	Not mentioned	
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity	
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):		
	Not mentioned		
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project	
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.	
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**		
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**	
1	Clearing and Grubbing of Road Land	0.04	
2	Construction of Embankment	2.4	
3	Excavation for roadway in ordinary rock	2.91	

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4	Construction of Subgrade & Earthen Shoulder	1.2	
5	Construction of GSB	1.05	
6	Construction of WMM 1st layer	1.6	
7	Construction of WMM 2nd layer	1.6	
8	Prime Coat	0.08	
9	Tack Coat	0.03	
10	DBM	1.77	
11	BC	1.27	
12	1000mm dia H.P. Cul = 36 Nos	0.78	
13	Pucca Drain	0.9	
14	Retaining Wall	1	
15	Traffic Signs, Road Marking, Cresh Barrier etc.	1.8	
16	Cost of DPR Preparation	0.15	
	Total =	18.58	
17	Add GST .....= 12%	2.23	
18	Add Hills Premium ..... = 10%	1.86	
19	Add Labour Cess ..... =1%	0.19	
	Grand Total	22.86	
1.7A	Out of above, SG's Contribution in the Project Cost, if any	For the above stated items/quantities - NIL	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	For the above stated items/quantities - NIL	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.8A	Original		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	Normative allocation of SG and related details	•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	Whether proposal has been accompanied with the following documents		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.

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	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER comments are : (a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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Sl. No. 12

GOVT. OF ASSAM

सत्यमेव जयते

OFFICE OF THE EXECUTIVE ENGINEER, PWD
BARPATHAR ROAD DIVISION,SILONIJAN
DISTRICT: KARBI ANGLONG (ASSAM)

PROJECT CONCEPT PAPER

NAME OF WORK: - IMPROVEMENT OF ROAD FROM 5TH KM OF BBDC ROAD TO 4TH KM OF RISHAKHIDI ROAD (CH.0.00M – CH.8000.00M),L=8.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

ESTIMATED AMOUNT RS. Rs.2289.84 Lakhs
(Rupees Twenty Two Crore Eighty Nine Lakhs and Eighty Four Thousand) Only

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NON DUPLICACY CERTIFICATE

This is to certify that the Project

NAME OF WORK: - IMPROVEMENT OF ROAD FROM 5^{III} KM OF BBDC ROAD TO 4^{III} KM OF RISHAKHIDI ROAD (CH.0.00M – CH.8000.00M),l=8.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

has neither been taken up nor proposed under state plan, PMGSY, NABARD, RIDF etc. under state & Central Government.

Asstt.Executive Engineer, PWD
Barpathar Roads Sub-Division

Executive Engineer, PWD
Barpathar Roads Division

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Dispur

Countersigned

Superintending Engineer, PWD(R&B)
Diphu Circle-I

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NAME OF WORK: - IMPROVEMENT OF ROAD FROM 5TH KM OF BBDC ROAD TO 4TH KM OF RISHAKHIDI ROAD (CH.0.00M – CH.8000.00M),l=8.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

ABSTRACT OF COST

Sl. No.	Name of Works	Amount (Rs. in L)
1	Clearing and Grubbing of Road Land	3.72
2	Construction of Embankment	240.56
3	Excavation for roadway in ordinary rock	290.80
4	Construction of Subgrade & Earthen Shoulder	120.56
5	Construction of GSB	105.15
6	Construction of WMM 1st layer	160.48
7	Construction of WMM 2nd layer	160.48
8	Prime Coat	8.36
9	Tack Coat	3.05
10	DBM	177.03
11	BC	126.93
12	1000mm dia H.P.Cul - 36 Nos	77.95
13	Pucca Drain	90.46
14	Retaining Wall	100.58
15	Traffic Signs,Road Marking,Cresh Barrier etc.	180.56
16	Cost of DPR Preparation	15.00
	Total=	1861.67
	Add GST .....=12%	223.40
	Add Hills Premium .....=10%	186.16
	Add Labour Cess .....=1%	18.61
	T=	2289.84

(Rupees Twenty Two Crore Eighty Nine Lakhs and Eighty Four Thousand) Only

Asstt. Executive Engineer, PWD
Barpathar Roads Sub-Division.

Executive Engineer, PWD
Barpathar Roads Division.

Countersigned

Addl. Chief Engineer

Superintending Engineer,PWD(R&B)
Diphu Circle-I

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NAME OF WORK:

IMPROVEMENT OF ROAD FROM 5TH KM OF BBDC ROAD TO 4TH KM OF RISHAKHIDI ROAD (CH.0.00M – CH.8000.00M),L=8.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

PROJECT CONCEPT PAPER.

1. INTRODUCTION:

The State:

Assam a state in the North Eastern Region, despite a number of existing tea, plywood cement factories, has been considered as basically pre-industrial through a wide range of industries could develop. The state is endowed with rich sources of oil, gas, coal, limestone, forest wealth and extremely high hydropower potential offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, flowers and herbs much of which could be processed and exported to the rest of the country as well as abroad, but the same will not be possible without removing the communication bottlenecks.

The state has a numbers of wide life sanctuaries and temples of international repute attracting tourists from within the country as well as aboard. In spite of such high potential, the economy of the state is still simple, heavily deficit and dependent on the rest of the country for many basis needs. This can be attributed to the poor communication scenario in Assam. The existing road network in the state with the inadequate capacity, poor riding quality, weak pavement, poor-geometries, submersible stretches, semi permanent timber bridge, etc.This has a serious impact in the development and social activity in the region.

The District:

Karbi Anglong literally means Karbi Hills, lies in the middle of Assam state, sandwiched between the Brahmaputra valley in the North and the Barak valley in the South. Essentially a hill area, its low hills link the Meghalaya state on the western side and the state of Nagaland on the eastern flank. The district with dense tropical forest covered hills and flat plains is situated between 25° 33' N to 26°35' N Latitude and 92°10' to 93°50' E Longitude.

The dominant tribes are the Karbis who mostly live in the hills being dependent on slash and burn cultivation. The 10, 434 Sq. Km area holds a population of 880 thousand (as projected for 2005) whose decadal growth rate stands at 22.72%, with an average population of 283 persons per village.

The density of population is 78 per Sq. Km. In spite of heavy influx from the over populated mainland; the indigenous tribes constitute 55.69% of the population. Only 11.30% of the populations live in the urban areas while the rest live in 2563 villages in the rural areas.

The N.F. railway passes through the district touching only a few points along the boundary. They are Hawaipur, Lumsakhang, Borlangphar, Langsoliet, Nilahang, Diphu, Doldoloi, Dhansiri, Rongapahar, Khonkhoti and Bokajan.

The district, a mix of plains and hills geographically and a treasure trove for various agricultural products and the land is ideally suitable to produce medicinal plants, and fruits like orange, pineapple, banana, crops like paddy, mustard, maize, etc, and not mention the other two major agro-forestry produce, cane and bamboo but the same will not be possible removing the communication bottlenecks.

This enchanting hails district with its diversely rare flora and fauna has remained untouched and undiscovered. Mother nature has indeed been very generous to Karbi Anglong yet its potentialities for tourism remain sadly untapped.

In spite of such high potential, the economy of the district is still implied, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenario in the district. The existing road network in the district has inadequate capacity, poor riding quality, weak pavement, poor geometries, submersible stretches, semi permanent timber bridges etc.

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2. ***SECTORAL POLICY***:- This Project Concept Paper has been prepared as per the State Govt.Circular-Notification.

3. ***SUMMARY OF PROJECT:-***

Construction of Road as proposed above is to be implemented under NESIDS for the financial year 2021-22.

The Road of mentioned length is proposed to be constructed with 3.75 m hard crust, 7.50 m formation width and 12.00 m clear roadway of same length.

Estimated amount when assessed comes to Rs. 2289.84 Lakhs

4. ***JUSTIFICATION FOR TAKING UP THE PROJECT:-***

This road is an earthen road constructed in 1975. This road provides the connectivity to more than 10 (Ten) Villages such as Langsomepi. Sarthe Terang,Sar Tokbi, Arlong Pira, Rishikhidi, Pung Adong, Masi Terang, Borjan Rongpi Gaon, and Tokolangso etc. The road starts from 14th Km of BBDC Road and ends at Murphuloni of Golaghat district.This is the only route which connects with the district head quarter Diphu. The existing road has been damaged due to incessant rain and submerged at several stretches due to inadequate or unserviceable cross drainage, resulting over topping, water logging. Some times storm water coming down from the hill and damages the road every year during monsoon. To improve the road to proper grade, camber & to free flow of water, it is necessary to strengthen the road with side drain, cross drain, culvert etc. properly. This section of road is passes through a thickly populated area and connects important institutions, School, Health Center, and other Commercial Places etc. This is the only route which connects with the district head quarter Diphu and important township like Golaghat, Dimapur etc. The road serves as the most important one for the peoples of this area for communication, carriage of essential commodities, life saving medicines etc. But at present the condition of the road is in depleted condition. Due to which the people living in this area is facing many difficulties for communication as well as for transportation and business purpose. This has become the main barrier/obstruction to the upliftment of the condition of the people living in these areas. Thus the strengthening of roads is mostly felt for smooth communications which will suddenly upgrade the socio-economic status of the roads influence area.

It connects many villages and of agricultural produce besides connecting schools, hospitals, markets etc. The road serves as the most important one for the peoples of this area for communication, carriage of essential commodities, life saving medicines etc. But at present the condition of the road is in depleted condition. Due to which the people living in this area is facing many difficulties for communication as well as for transportation and business purpose.This has become the main barrier/obstruction to the upliftment of the condition of the people living in this areas. Thus the improvement of roads is mostly felt for smooth communication which will suddenly upgrade the socio-economic status of the roads influence area.

The proposed work will result in remarkable improvement of communication in Karbi Anglong District of Assam State directly benefiting the agricultural, horticultural & Forest.

After completion of the project the socio-economic infra-structure of the people of this area will be developed.

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5. PHYSICAL & FINANCIAL PHASING OF THE PROJECT YEAR-WISE:

Item Activities (Milestone)	2021-22 (Qtrly)	2022-23 (Qtrly)	2022-23 (Qtrly)	2022-23 (Qtrly)	2022-23 (Qtrly)	Total (Rs. in Lakhs)
A.Physical	4th	1st	2nd	3rd	4th	100%
Clearing & Grubbing,Subgrade and earthen shoulder						
Granular Sub-base						
WMM grade II & III						
Prime coat,Tack coat and DBM&BC						
1000mm dia PPC						
Traffic Sign, Road Furniture.						
B.Financial	450.00	472.00	462.00	467.00	398.84	2249.84

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6. COST ESTIMATE:-

IMPROVEMENT OF ROAD FROM 5[TH] KM OF BBDC ROAD TO 4[TH] KM OF RISHAKHIDI ROAD (CH.0.00M - CH.8000.00M),l=8.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

Sl. No.	Name of Works	Amount (Rs. in L)
1	Clearing and Grubbing of Road Land	3.72
2	Construction of Embankment	240.56
3	Excavation for roadway in ordinary rock	290.80
4	Construction of Subgrade & Earthen Shoulder	120.56
5	Construction of GSB	105.15
6	Construction of WMM 1st layer	160.48
7	Construction of WMM 2nd layer	160.48
8	Prime Coat	8.36
9	Tack Coat	3.05
10	DBM	177.03
11	BC	126.93
12	1000mm dia H.P.Cul = 36 Nos	77.95
13	Pucca Drain	90.46
14	Retaining Wall	100.58
15	Traffic Signs,Road Marking,Cresh Barrier etc.	180.56
16	Cost of DPR Preparation	15.00
	Total=	1861.67
	Add GST .....=12%	223.40
	Add Hills Premium .....=10%	186.16
	Add Labour Cess .....=1%	18.61
	T=	2289.84

Total= Rs.2289.84 Lakhs

(Rupees Twenty Two Crore Eighty Nine Lakhs and Eighty Four Thousand) Only

Asstt. Executive Engineer, PWD
Barpathar Road Sub-Division

Countersigned

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Diphu

Executive Engineer, PWD
Barpathar Roads Division.

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7. *IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM:*

The implementing agency will be the Public Works Department of the Govt. of Assam comprising of more than 1300 qualified and experienced graduate engineers, who have to their credit, completion of 1223 Nos. of RCC Bridge under various projects like World Bank, NABARD loan, NEC, Border Roads schemes and state plan. The Executive Engineer of Barpathar Roads Division will be the Nodal Officer and will be the Engineer in charge of the project. The project is formulated under the control of the Chief Engineer, PWD (Roads) with database from the Executive Engineers, Barpathar Road Division and his team of Engineers.

7.1 *STATUTORY CLEARANCE:*

Since this is a road project along the existing embankment clearing from Forest in not necessary, Pollution is non-entity as such permission from Pollution Control Board is not necessary.

7.2 *AVAILABILITY OF LAND:*

Land acquisition is not necessary, as the road will follow the existing alignment and if necessary the land will be donated by the public as like in case of construction of Roads.

7.3 *IMPLEMENTATION SCHEDULE:*

7.3.1 *PHYSICAL:*

7.3.1. a. Pre construction stage:

(i) NIT and issue of work order : 2 Months

7.3.1. b. ***Construction Stage:***

(i) Commencement of work: 15 days from the date of issuing formal work order.
(ii) Time of completion : 24 Months.

7.3.2. FINANCIAL

Year	Financial Progress
2021-22	1373.90 L (60%)
2022-23	915.936 L (40%)

8. *MAINTENANCE ARRANGEMENT FOR THE PROJECT:*

Govt. of Assam has accepted the Road Maintenance Policy and a Road Board is formed creating a dedicated road fund with a corpus Rs. 60 Crores to begin with Maintenance of the bridges will be the subject of the Road Board

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9. *PROJECT FORMULATION PROCESS* :

Once this concept paper is accepted in principle, detail survey and design of road and Bridge culvert will be completed and DPR will be submitted.

10. *DESIGN,DRAWING & ESTIMATE* :

The design of the Road and other cross-drainage systems have been prepared in according with the IRC code of practices for roads and bridge designs and ISI & ISO Quality Management Systems. All detailed estimates, drawings and designs will be submitted in the DPR. However a site plan has also been enclosed herewith.

11. *SCHEDULE OF RATE*:

The Detailed Estimates of the proposed work is prepared based on the basis of Schedule of Rate (SOR) for State Highways and Major District Roads for the year 2017-18 for all division under Assam PWD current in the state.

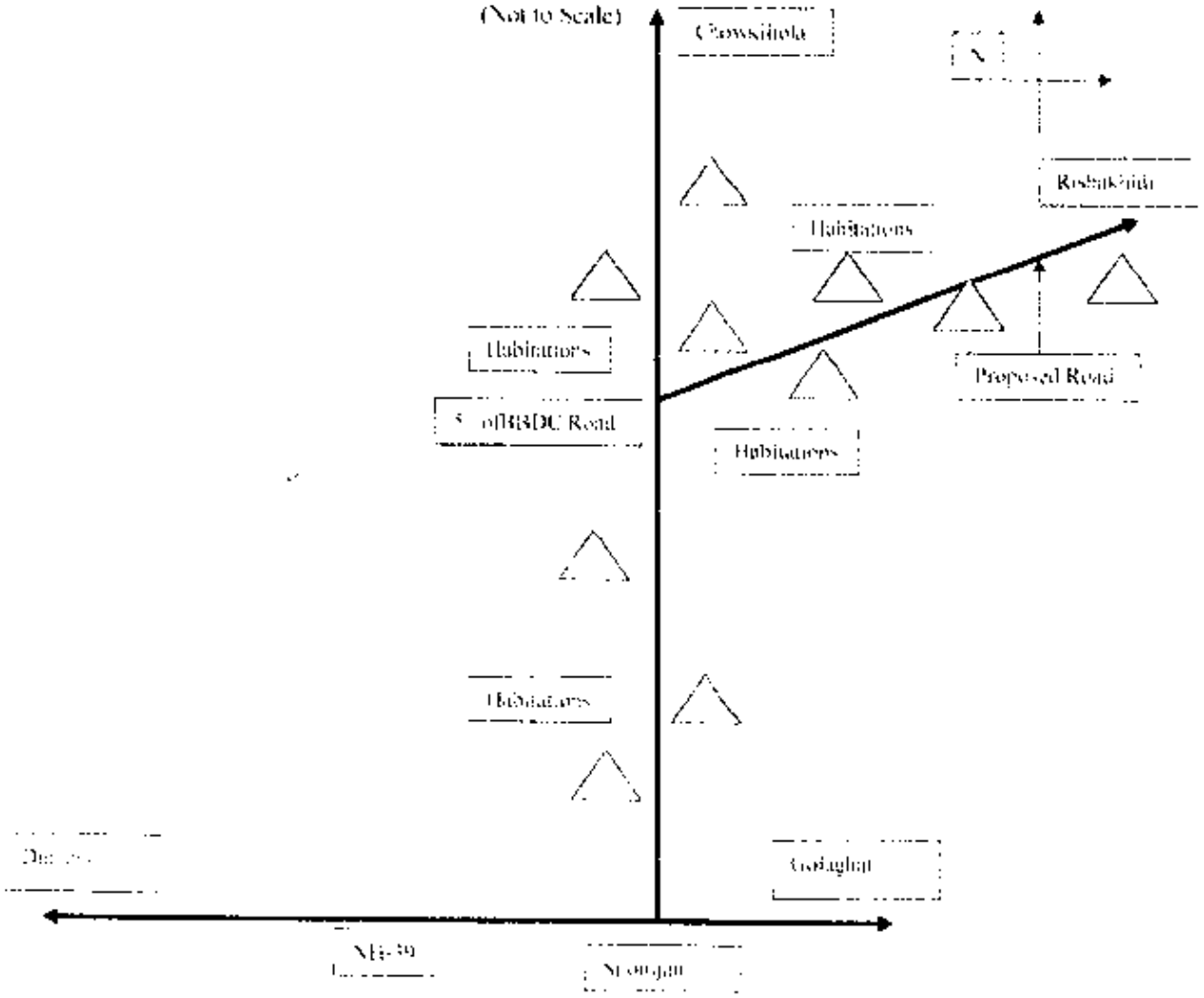
Asstt.Executive Engineer, PWD
Barpathar Roads Sub-Division.

Executive Engineer, PWD
Barpathar Roads Division.

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NAME OF WORK: - IMPROVEMENT OF ROAD FROM 5[III] KM OF BBDC ROAD TO 4[III] KM OF RISHAKHIDI ROAD (CH.0.00M – CH.8000.00M),l=8.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

Index Map



Asstt. Executive Engineer, PWD
Barpathar Roads Sub-Division

Executive Engineer, PWD
Barpathar Roads Division

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Annexure P

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: P **State: Assam**

Name of Project: Improvement of road from 16th KM of BBDC road to Phangcherrop (Ch. 0.00 KM to 14.00 KM).

Project Description/Summary (not exceeding 200 words): The Road is proposed to be constructed with 3.75 m hard crust, 7.50 m formation width and 12.00 m clear roadway of same length.
This road is an earthen road constructed in 1975. This road provides the connectivity to more than 07 (Seven) Villages such as Tereng Langso, Sing Rongpi Gaon, Longrung Hanse, Langtuk Bey, Lakhan Hanse Gaon and Bepari Phangcherrop etc. The road starts from 16th Km of BBDC Road and Bepari Phangcherrop. This is the only route which connects with the district head quarter Diphu. The existing road has been damaged due to incessant rain and submerged at several stretches due to inadequate or unserviceable cross drainage, resulting over topping, water logging. Some time storm water coming down from the hill and damages the road every year during monsoon.
This is the only route which connects with the district head quarter Diphu and important township like Golaghat, Dimapur etc. The road serves as the most important one for the peoples of this area for communication, carriage of essential commodities, life saving medicines etc.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 44.31 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**

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1	Clearing and Grubbing of Road Land	0.06	
2	Construction of Embankment	4.21	
3	Excavation for roadway in ordinary rock	5.09	
4	Construction of Subgrade & Earthen Shoulder	2.11	
5	Construction of GSB	1.84	
6	Construction of WMM 1st layer	2.81	
7	Construction of WMM 2nd layer	2.81	
8	Prime Coat	0.15	
9	Tack Coat	0.05	
10	OBM	3.1	
11	BC	2.22	
12	1000mm dia H.P. Cul = 55 Nos	1.59	
13	RCC Bridge 2 nos of 16.50 m span (Pile Foundation)	3.96	
14	Pucca Drain	1.5	
15	Retaining Wall	1.21	
16	Traffic Signs, Road Marking, Cresh Barrier etc.	3.16	
17	Cost of DPR Preparation	0.15	
	Total =	36.02	
18	Add GST ..... = 12%	4.32	
19	Add Hills Premium 10%	3.6	
20	Add Labour Cess ..... = 1%	0.36	
	Total	44.31	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (If any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive

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5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER comments are : (a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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13

GOVT. OF ASSAM

सत्यमेव जयते

OFFICE OF THE EXECUTIVE ENGINEER, PWD
BARPATHAR ROAD DIVISION,SILONIJAN
DISTRICT: KARBI ANGLONG (ASSAM)

PROJECT CONCEPT PAPER

NAME OF WORK: -*IMPROVEMENT OF ROAD FROM 16TH KM OF BBDC ROAD TO PHANGCHERROP(CH.0.00M–CH.14000.00M),L=14.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.*

ESTIMATED AMOUNT = Rs.4431.027 Lakhs
(Rupees Forty Four Crore Thirty One Lakhs Two Thousand and Seven Hundred) Only

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NON DUPLICACY CERTIFICATE

This is to certify that the Project

NAME OF WORK: - IMPROVEMENT OF ROAD FROM 16TH KM OF BBDC ROAD TO PHANGCHERROP(CH.0.00M-CH.14000.00M),L=14.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-23.

has neither been taken up nor proposed under state plan, PMGSY, NABARD, RIDF etc. under state & Central Government.

Assistant Executive Engineer, PWD
Barpathar Roads Sub-Division.

Executive Engineer, PWD
Barpathar Roads Division

Countersigned

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Dispur

Countersigned

Superintending Engineer,PWD(R&B)
Diphu Circle I

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NAME OF WORK: - IMPROVEMENT OF ROAD FROM 16TH KM OF BBDC ROAD TO PHANGCHERROP(CH.0.00M-CH.14000.00M),L=14.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

ABSTRACT OF COST

Sl. No.	Name of Works	Amount (Rs. in L)
1	Clearing and Grubbing of Road Land	6.51
2	Construction of Embankment	420.98
3	Excavation for roadway in ordinary rock	508.90
4	Construction of Subgrade & Earthen Shoulder	216.98
5	Construction of GSB	184.012
6	Construction of WMM 1st layer	280.84
7	Construction of WMM 2nd layer	280.84
8	Prime Coat	14.63
9	Tack Coat	5.33
10	DBM	309.80
11	BC	222.12
12	1000mm dia I.P.Cut - 55 Nos	159.50
13	PCC Bridge Nos of 1x30m span (Pile Foundation)	396.00
14	Pucca Drain	150.46
15	Retaining Wall	120.58
16	Traffic Signs,Road Marking,Crash Barrier etc.	315.98
17	Cost of DPR Preparation.	15.00
	Total=	3602.462
	Add GST .....=12%	432.295
	Add Hills Premium .....=10%	360.246
	Add Labour Cess .....=1%	36.024
	T=	4431.027

(Rupees Forty Four Crore Thirty One Lakhs Two Thousand and Seven Hundred) Only

Asstt. Executive Engineer, PWD
Barpathar Roads Sub-Division.

Executive Engineer, PWD
Barpathar Roads Division.

Addl. Chief Engineer
PWD(R&B), Hills, Assam, Guwahati

Countersigned

Superintending Engineer, PWD(R&B)
Hills Circle-I

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IMPROVEMENT OF ROAD FROM 16TH KM OF BBDC ROAD TO PHANGCHERROP(CH.0.00M-CH.14000.00M)L=14.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

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1. *INTRODUCTION:*

The State:

Assam a state in the North Eastern Region, despite a number of existing tea, plywood cement factories, has been considered as basically pre-industrial through a wide range of industries could develop. The state is endowed with rich sources of oil, gas, coal, limestone, forest wealth and extremely high hydropower potential, offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, flowers and herbs much of which could be processed and exported to the rest of the country as well as abroad, but the same will not be possible without removing the communication bottlenecks.

The state has a numbers of wide life sanctuaries and temples of international repute attracting tourists from within the country as well as aboard, in spite of such high potential, the economy of the state is still simple, heavily deficit and dependent on the rest of the country for many basis needs. This can be attributed to the poor communication scenario in Assam. The existing road network in the state with the inadequate capacity, poor riding quality, weak pavement, poor geometries, submersible stretches, semi permanent timber bridge, etc.This has a serious hamper in the development and social activity in the region.

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Karbi Anglong literally means Karbi Hills, lies in the middle of Assam state, sandwiched between the Brahmaputra Valley in the North and the Barak valley in the South. Essentially a hill area, its low hills link the Meghalaya state on the western side and the state of Nagaland on the eastern flank. The district with dense tropical forest covered hills and flat plains is situated between 25° 33' N to 26°35' N Latitude and 92° 10' to 93°50' E Longitude.

The dominant tribes are the Karbis who mostly live in the hills being dependent on slash and burn cultivation. The 10, 434 Sq. Km area holds a population of 880 thousand (as projected for 2015) whose decadal growth rate stands at 22.72% with an average population of 283 persons per village.

The density of population is 78 per Sq. Km. In spite of heavy influx from the over populated mainland; the indigenous tribes constitute 55.69% of the population. Only 11.30% of the populations live in the urban areas while the rest live in 2563 villages in the rural areas.

The N.F. railway passes through the district touching only a few points along the boundary. They are Jawaipur, Lumsakhang, Borlangphar, Langsoliet, Nilaiting, Diphu, Deldolai, Dhansiri, Rongapahar, Khotkhoti and Bokajan.

The district, a mix of plains and hills geographically and a treasure trove for various agro-cultural products and the land is ideally suitable to produce medicinal plants, and fruits like Mango, pineapple, banana, crops like paddy, mustard, maize, etc. and not mention the other two major agro-forestry produce, cane and bamboo but the same will not be possible removing the communication bottlenecks.

This enchanting hills district with its diversely rare flora and fauna has remained unexcited and undiscovered. Mother nature has indeed been very generous to Karbi Anglong yet its potentialities for tourism remain sadly untapped.

In spite of such high potential, the economy of the district is still stagnated, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenario in the district. The existing road network in the district has inadequate capacity, poor riding quality, weak pavement, poor geometries, submersible stretches, semi permanent timber bridges etc.

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2. ***SECTORAL POLICY*** This Project Concept Paper has been prepared as per the State Govt.Circular Notification

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Construction of Road as proposed above is to be implemented under NESIDS for the financial year 2021-22.

The Road of mentioned length is proposed to be constructed with 3.75 m hard crust, 7.50 m formation width and 12.00 m clear roadway of same length.

Estimated amount when assessed comes to Rs. 4431.027 Lakhs

4. ***JUSTIFICATION FOR TAKING UP THE PROJECT:-***

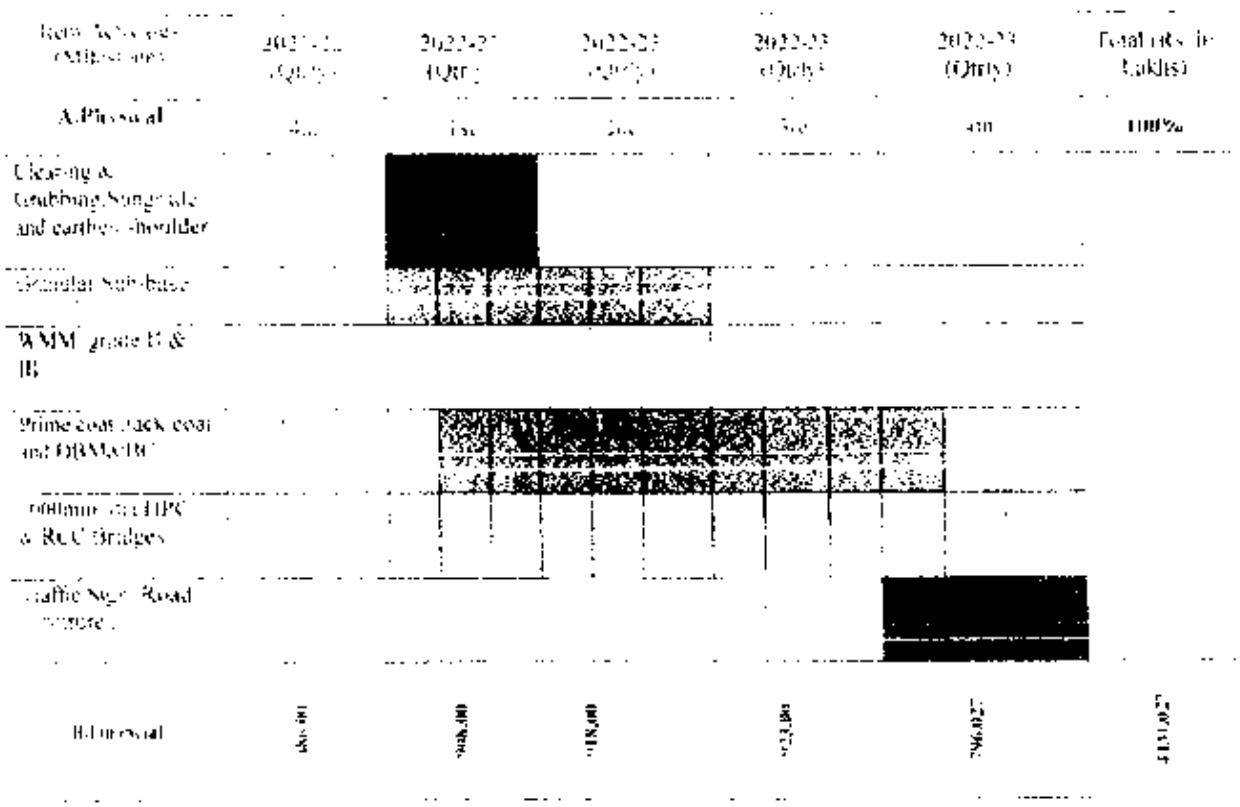
This road is an earthen road constructed in 1975. This road provides the connectivity to major Nine (Seven) Villages such as Terang Longso Sing Rongpi Hoan Longrung Hanse Langnok Bey, Lakhan Hanse Gaon, and Bepari Phangcherrop etc. The road starts from 16th Km of BBDC Road and Bepari Phangcherrop.This is the only route which connects with the district head quarter Diphu. The existing road has been damaged due to incessant rain and submerged at several stretches due to inadequate or unserviceable cross drainage, resulting over topping, water logging. Some times storm water coming down from the hill and damages the road every year during monsoon. To improve the road to proper grade, camber & to free flow of water, it is necessary to strengthen the road with side drain, cross drain, culvert etc. properly. This section of road is passes through a thickly populated area and connects important institutions, School, Health Center, and other Commercial Places etc. This is the only route which connects with the district head quarter Diphu and important township like Golaghat, Dimapur etc. The road serves as the most important one for the peoples of this area for communication, carriage of essential commodities, life saving medicines etc. But at present the condition of the road is in depleted condition. Due to which the people living in this area is facing many difficulties for communication as well as for transportation and business purpose. This has become the main barrier obstruction to the upliftment of the condition of the people living in these areas. Thus the strengthening of roads is mostly felt for smooth communications which will suddenly upgrade the socio-economic status of the roads influence area

It connects many villages and of agricultural produce besides connecting schools, hospitals, markets etc. The road serves as the most important one for the peoples of this area for communication, carriage of essential commodities, life saving medicines etc. But at present the condition of the road is in depleted condition. Due to which the people living in this area is facing many difficulties for communication as well as for transportation and business purpose. This has become the main barrier obstruction to the upliftment of the condition of the people living in this areas. Thus the improvement of roads is mostly felt for smooth communication which will suddenly upgrade the socio economic status of the roads influence area.

The proposed work will result in remarkable improvement of communication in Karbi Anglong District of Assam State directly benefiting the agricultural, horticultural & Forest.

After completion of the project the socio-economic infra-structure of the people of this area will be developed.

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6. COST ESTIMATE:-

IMPROVEMENT OF ROAD FROM 16TH KM OF BRDC ROAD TO PHANGCHERROPUCH.0.00M-CH.14000.00M).L=14.00KM UNDER NORTH EAST SPECIAL INFRASTRUCURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

Sl. No	Name of Works	Amount (Rs. in L)
1	Clearing and Grubbing of Road Land	6.51
2	Construction of Embankment	420.98
3	Excavation for roadway in ordinary rock	508.90
4	Construction of Subgrade & Earthen Shoulder	210.98
5	Construction of GSB	184.012
6	Construction of WMM 1st layer	280.84
7	Construction of WMM 2nd layer	280.84
8	Prime Coat	14.63
9	Tack Coat	5.33
10	DBM	389.80
11	BC	222.12
12	D800mm dia RCC ... 55 Nos	159.50
13	RCC Bridge Abts of 1x.5om span (Pile Foundation)	396.00
14	Diesel Duty	150.46
15	Retaining Wall	120.58
16	Traffic Signs,Road Mar.,Crash Barrier etc	315.98
17	Cost of Dpr Preparation	15.00
	Total=	3602.462
	Add GST ...=12%	432.295
	Add Hills Premium ....=10%	360.246
	Add Labour Cess .....=1%	36.024
	I=	4431.027

Total= Rs.4431.027 Lakhs

(Rupees Forty Four Crore Thirty One Lakhs Two Thousand and Seven Hundred) Only

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7. *IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM :*

The implementing agency will be the Public Works Department of the Govt. of Assam comprising of more than 1300 qualified and experienced graduate engineers, who have to their credit, completion of 1223 Nos. of RCC Bridge under various projects like World Bank, NABARD loan, NEC, Border Roads schemes and state plan. The Executive Engineer of Barpathar Roads Division will be the Nodal Officer and will be the Engineer in charge of the project. The project is formulated under the control of the Chief Engineer, PWD (Roads) with database from the Executive Engineers, Barpathar Road Division and his team of Engineers.

7.1 *STATUTORY CLEARANCE:*

Since this is a road project along the existing embankment clearing from forest is not necessary. Pollution is a non-entity as such permission from Pollution Control Board is not necessary.

7.2 *AVAILABILITY OF LAND:*

Land acquisition is not necessary, as the road will follow the existing alignment and if necessary the land will be donated by the public as like in case of construction of Roads.

7.3 *IMPLEMENTATION SCHEDULE:*

7.3.1 *PHYSICAL:*

7.3.1. a. **Pre construction stage:**

(a) NIT and issue of work order — 3 Months

7.3.1. b. *Construction Stage:*

(a) Commencement of work: 15 days from the date of issuing formal work order.
(b) Time of completion — 24 Months.

7.3.2. FINANCIAL

Year	Financial Progress
2021-22	26[illegible]
2022-23	[illegible]

8. *MAINTENANCE ARRANGEMENT FOR THE PROJECT.*

Govt. of Assam has accepted the Road Maintenance Policy and a Road Board is functioning creating a dedicated road fund with a corpus Rs. 40/- crores to begin with. Maintenance of the [illegible] will be the responsibility of the Road Board.

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9. *PROJECT FORMULATION PROCESS* :

Once this concept paper is accepted in principle, detail survey and design of road and Bridges project will be completed and DPR will be submitted.

10. *DESIGN,DRAWING & ESTIMATE* :

The design of the Road and other cross-drainage systems have been prepared in according with the IRC code of practices for roads and bridge designs and ISI & ISO Quality Management Systems. All detailed estimates, drawings and designs will be submitted in the DPR. However a few plans as also been enclosed herewith.

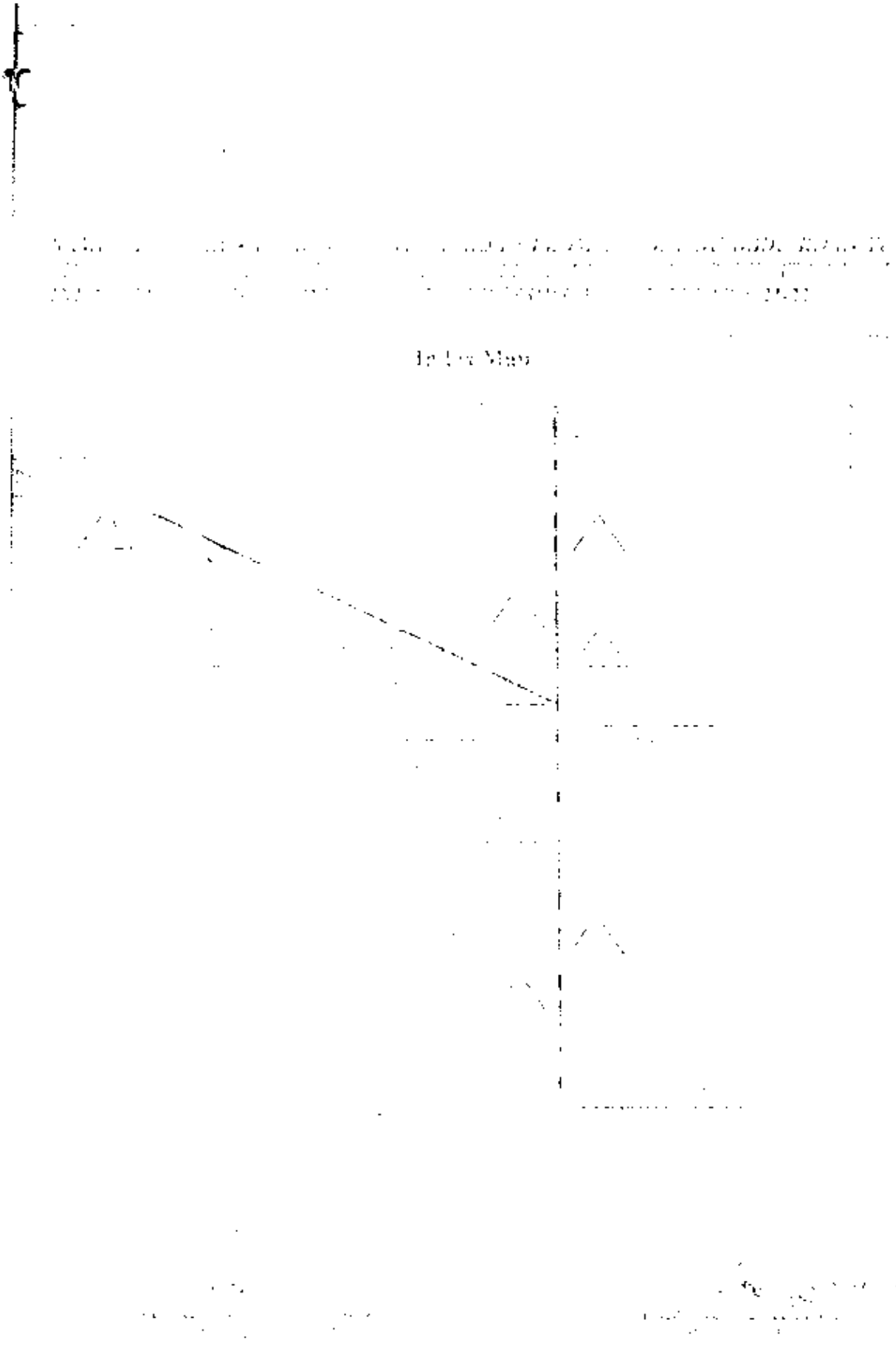
11. *SCHEDULE OF RATE*:

The Detailed Estimates of the proposed work is prepared based on the basis of Schedule of Rates SOR's for State Highways and Major District Roads for the year 2017-18 and all Revision under Assam PWD current in the state.

Assistant Executive Engineer, PWD
Barpatnai Roads Sub-Division

Executive Engineer, PWD
Barpatnai Roads Division

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Annexure Q

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: Q **State: Assam**

Name of Project: Improvement/Construction of Road from Moisokilling at DS road to Mulhoi via Saijang (L=25 KM).

Project Description/Summary (not exceeding 200 words): The Road from Moisokilling at DS road to Mulhoi via Saijang is proposed under North East Special Infrastructure Development Scheme (NESIDS) has been taken up for the year 2021-22 under PWD, Borpathar Road Division, Karbi Anglong, Assam.
The road started from Moisokilling at 11th Km of DS road and passes through several tribal villages like Angjok Engti, Subha Bosti, Kania Bey village, Saijang, Mulbung village etc. and ends at Mulhoi, Karbi Anglong District. The road is located under the Bokajan Development Block. The surrounding village are rich of Agriculture, Horticulture and forest product and after the completion of the project, the per capita income of the ajoining villagers will go up and help for increasing the National income.
The total length of the road project is 25.00 Km. And after improving the whole length of the road it will come to the good utility of the people.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 43.23 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**
1	Clearing and grubbing land including uprooting, cutting trees and bamboo	0.12

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2	Labour for dismantling all types of damaged culverts	0.07	
3	Earthwork in Embankment	1.8	
4	Excavation for Roadway in ordinary Rock	0.95	
5	Construction of earth work in sub grade and shoulder	1.3	
6	Construction of granular sub-base (GSB-Gr-II)	3	
7	Construction of WMM 1st Layer	4.95	
8	Construction of WMM 2nd Layer	4.95	
9	Prime Coat	0.26	
10	Tack Coat	0.09	
11	DBM	5.75	
12	BC	3.97	
13	Pucca Drain	0.7	
14	Retaining Wall	1.1	
15	Construction of NP3 1000 mm dia hume pipe culvert (73 Nos)	2.05	
16	Traffic signs, Road Marking, RCC Guard post, Cresh Barrier etc	0.6	
17	Construction of RCC Bridges ..... (2 Nos)	3.38	
18	Preparation of DPR including survey @ Rs. 40,000.00/Km L/S	0.1	
	Total	35.14	
19	Add 12% for GST.....=	4.22	
20	Add 10% Hill Premium .....=	3.51	
21	Add 1% Labour Cess .....=	0.35	
	Grand Total	**43.22**	

1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, If any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**

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	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:** TW, DoNER comments are : (a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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14

GOVT. OF ASSAM

PWD
GOVT. OF ASSAM

PUBLIC WORK DEPARTMENT

OFFICE OF THE EXECUTIVE ENGINEER, PWD, BORPATHAR ROAD DIVISION SILONIJAN, KARBI ANGLONG, ASSAM.

PROJECT CONCEPT PAPER FOR

"Improvement/Construction of road from Moisokilling at DS road to Mulhoi via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"

ESTIMATED AMOUNT : - Rs. 4323.00 LAKHS

Name of Implementing Agency :- PWD(ROADS) Assam.

Name of Division :- Borpathar PWD (Roads) Division, Silonijan.

Name of District. :- Karbi Anglong, Assam.

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NON – DUPLICACY CERTIFICATE

Certified that the work "Improvement/Construction of road from Moisokilling at DS road to Mulhoi via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22" is not included in any other schemes like NABARD/PMGSY/NLCPR/RIDF/CRF/ State Plan etc. therefore, the said work may be included under the any of the scheme.

Asstt. Executive Engineer, PWD
Sarihajan Roads Sub – Division.
Sarihajan.

(P. Saikia)
Executive Engineer, PWD,
Borpathar Road Division,
Silonijan.

Countersigned

27/05/2021
Addl. Chief Engineer
PWD (R&B), Hills, Assam, Diphu

Countersigned

Superintending Engineer,PWD
(R&B), Diphu Circle-I, Diphu

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Name of Works :- *"Improvement/Construction of road from Moiyokilling at DS road to Mulhai via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"*

ABSTRACT OF COST

Sl. No.	Item	Amount in Lakhs
1	Clearing and grubbing land including uprooting, cutting trees and bamboo	Rs. 12.00
2	Labour for dismantling all types of damaged culverts.	Rs. 7.50
3	Earthwork in Embankment.	Rs. 180.00
4	Excavation for Roadway in ordinary Rock	Rs. 95.00
5	Construction of earth work in sub grade and shoulder.	Rs. 130.00
6.	Construction of granular sub-base (GSB- Gr-II)	Rs. 300.00
7.	Construction of WMM 1st Layer	Rs. 495.00
8	Construction of WMM 2nd Layer	Rs. 495.00
9	Prime Coat	Rs. 26.15
10	Tack coat	Rs. 9.50
11	DBM	Rs. 575.00
12	BC	Rs. 396.66
13	Pucca Drain	Rs. 70.00
14	Retaining Wall.	Rs. 110.00
15	Construction of NP3 1000 mm dia hume pipe culvert (73 Nos)	Rs. 205.00
16	Traffic Signs, Road Marking, RCC Guard post, Cresh Barrier etc	Rs 60.00
17.	Construction of RCC Bridges (2 Nos)	Rs. 338.00
18	Preparation of D.P.R. including survey. @ Rs. 40,000.00 Km L/S	Rs. 10.00
	Total Cost of project =	**Rs. 3514.81 Lakhs**
	Add 12% for GST ..... =	**Rs. 421.78 Lakhs**
	Add 10 % Hills Premium ..... =	**Rs. 351.48 Lakhs**
	Add. 1% Labour Cess..... =	**Rs 35.15 Lakhs**
	Total =	**Rs 4323.22 Lakhs**
	Say =	**Rs. 4323.00 Lakhs**

(Rupees Fourty Three Crores and Twenty Three Lakhs) Only.

Asstt. Executive Engineer, PWD
Sarihajan Roads Sub-Division.
Sarihajan.

Executive Engineer, PWD
Borpathar Road Division.
Silonijan.

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Dispur

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PROJECT CONCEPT PAPER

1. INTRODUCTION :-

The State : -

Assam a state in the North Eastern Region, despite a number of existing tea, plywood cement factories, has been considered as basically pre-industrial through a wide range of industries could develop. The state is endowed with rich sources of oil, gas, coal, limestone, forest wealth and extremely high hydropower potential offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, flowers and herbs much of which could be processed and exported to the rest of the country as well as abroad, but the same will not be possible without removing the communication bottlenecks

The state has a *numbers of wide life sanctuaries and temples of international repute* attracting tourists from within the country as well as aboard. In spite of such high potential, the economy of the state is still simple, heavily deficit and dependent on the rest of the country for many basis needs. This can be attributed to the poor communication scenario in Assam. The existing road network in the state with the inadequate capacity, poor riding quality, weak pavement, poor-geometries, submersible stretches, semi permanent timber bridge, etc.This has a serious impact in the development and social activity in the region

The District:

Karbi Anglong literally means Karbi Hills, lies in the middle of Assam state, sandwiched between the Brahmaputra valley in the North and the Barak valley in the South. Essentially a hill area, its low hills link the Meghalaya state on the western side and the state of Nagaland on the eastern flank. The district with dense tropical forest covered hills and flat plains is situated between 25° 43' N to 26° 35' N Latitude and 92° 10' to 93° 50' E Longitude.

The dominant tribes are the Karbis who mostly live in the hills being dependent on slash and burn cultivation. The 10, 434 Sq. Km area holds a population of 889 thousand (as projected for 2005) whose decadal growth rate stands at 22.72%, with an average population of 283 persons per village.

The density of population is 78 per Sq. Km. In spite of heavy influx from the over populated mainland, the indigenous tribes constitute 55.69% of the population. Only 11.30% of the populations live in the urban areas while the rest live in 2563 villages in the rural areas

The N.F. railway passes through the district touching only a few points along the boundary. They are Hawaipur, Lumsakhang, Borlangphar, Langsohet, Nilaiting, Diphu, Doldolor, Dhansiri, Rongapahar, Khotkhati and Bokajan.

The district a mix of plains and hills geographically and a treasure trove for various agricultural products and the land is ideally suitable to produce medicinal plants, and fruits like orange, pineapple, banana, crops like paddy, mustard, maize, etc. and not mention the other two major agro-forestry produce, cane and bamboo but the same will not be possible removing the communication bottlenecks

This enchanting hills district with its diversely rare flora and fauna has remained untouched and undiscovered. Mother nature has indeed been very generous to Karbi Anglong yet its *potentialities* for tourism remain sadly unapped.

In spite of such high potential, the economy of the district is still simple, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenario in the district. The existing road network in the district has inadequate capacity, poor riding quality, weak pavement, poor geometries, submersible stretches, semi permanent timber bridges etc

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2. SECTORAL POLICY : -

This Project Concept Paper has been prepared as per the State Govt.Circular Notification The proposed road is out of those specified fund resources which had not been included in PMGSY Bharat Nirman (General & ADB), ARIASP, RIDF-XXV etc and they have been selected on priority basis area wise with the broad objective of ensuring speedy development of infrastructure viz. Road network etc in the North Eastern region.

3. SUMMARY OF PROJECT : -

The Road from Moisokilling at DS road to Mulhoi via Saijang is proposed under North East Special Infrastructure Development Scheme (NESIDS) has been taken up for the year 2021-22 under PWD, Borpathar Road Division, Karbi Anglong , Assam

The road started from Moisokilling at 11th Km of DS road and passes through several tribal villages like Angjok Engti, Subha Bosti, Kania Bey village, Saijang, Mulbung village etc. and ends at Mulhor, Karbi Anglong District The road is located under the Hokajan Development Block. The surrounding village are rich of Agriculture, Horticulture and forest product and after the completion of the project, the per capita income of the adjoining villagers will go up and help for increasing the National income

The total length of the road project is 25.00 Km. and after improving the whole length of the road it will come to the good utility of the people

Estimate Amount as assessed on physical verification on site is Rs. 4323.00 Lakhs

4. JUSTIFICATION FOR TAKING UP THE PROJECT AND BENEFITS :-

"Improvement/Construction of road from Moisokilling at DS road to Mulhoi via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22" is proposed under North East Special Infrastructure Development Scheme (NESIDS) as per the State Govt. Circular/Notification and as per the Guidelines provision for proposal of schemes under NESIDS circulated earlier The length of the road from 0.00 Km to 25.00 Km is passing through many Tribal villages and also this road stretches is most important for one of the people of the villagers for communication, carriage of essential commodities, life saving medicines, Medical Facilities and Educational conveyance etc

Presently the road is unserviceable due to inadequate cross drainage, water logging etc. In order to maintain proper grade, camber and to free flow of water, it is necessary to construct this road with proper alignment cross drain etc

The Livelihood of the people of this vicinity mainly depends upon agriculture, forest product and cottage industry After completion of the project the Socio-economic infrastructure of the people of this area will be developed

The climatic condition of this area is basically moderate hot (Between 28 c to 36 c during summer and average minimum temperature during winter remain 12 c to 22 c). The rain fall is generally high and between 200 mm to 300 mm

In addition to these, the road is utmost essential for the movement of Police personal including Para-Military forces for controlling the insurgency problem

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5. PHYSICAL & FINANCIAL PHASING OF THE PROJECT YEAR-WISE

Project Implementation Schedule for Pavement

Items/Activities (milestones)	YEAR 2021-22		2022-23			
	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
(i) PHYSICAL						
1. Dismantling, clearing and grubbing						
2. Earth work in Excavation & filling.						
3. Construction of HP Culvert.						
3. G.S.B.						
4. WMM 1st & 2nd Layers						
5. DBM & BC						
6. Miscellaneous						
(ii) Financial (Rs. In Lakh)						
Pavement (inclusive of all additions & taxes)	500.00	650.00	700.00	780.00	75500	600.00	3985.00

Project Implementation Schedule for RCC Bridge

Items/Activities (milestones)	YEAR 2021-22		2022-23			
	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
(i) PHYSICAL						
1. Dismantling of existing SPT bridges, Construction of sub-way etc.						
2. Foundation.						
3. Sub- Structure						
3. Super Structure						
4. Approaches & protection work etc.						
(ii) Financial (Rs. In Lakh)						
Bridge proper	12.00	63.00	90.00	85.00	58.00	30.00	338.00

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6. COST ESTIMATE :-

Name of Works :- ***"Improvement/Construction of road from Moisokilling at DS road to Muthoi via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"***

The costing assessment for the project as said detailing as below :-

(A) The cost of the Pavement considered the length of 25.00 Km.

Sl.No.	Item	Amount in Lakhs
1	Clearing and grubbing land including uprooting, cutting trees and bamboo	Rs. 12.00
2	Labour for dismantling all types of damaged culverts.	Rs. 7.50
3.	Earthwork in Embankment.	Rs. 180.00
4.	Excavation for Roadway in ordinary Rock	Rs. 95.00
5.	Construction of earth work in sub grade and shoulder.	Rs. 130.00
6	Construction of granular sub-base (GSB- Gr-II)	Rs. 300.00
7.	Construction of WMM 1st Layer	Rs. 495.00
8	Construction of WMM 2nd Layer	Rs. 495.00
9	Prime Coat	Rs. 26.15
10	Tack coat	Rs. 9.50
11	DBM	Rs. 575.00
12	BC	Rs. 396.66
13	Pucca Drain	Rs. 70.00
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18.	Preparation of D.P.R including survey @ Rs. 40,000.00 Km L.S	Rs. 10.00
	Total Cost of project =	**Rs. 3514.81 Lakhs**
	Add 12% for GST ..... =	**Rs. 421.78 Lakhs**
	Add 10 % Hills Premium ..... =	**Rs. 351.48 Lakhs**
	Add. 1% Labour Cess..... =	**Rs. 35.15 Lakhs**
	Total =	**Rs 4323.22 Lakhs**
	Say =	**Rs. 4323.00 Lakhs**

(Rupees Fourty Three Crores and Twenty Three Lakhs) Only.

Asstt. Executive Engineer, PWD
Sarihajan Roads Sub-Division,
Sarihajan.

Executive Engineer, PWD
Borpathar Road Division.
Silonijan

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COST ESTIMATE FOR RCC BRIDGE :-

The costing assessment for the project as said detailing as below :-

(A) For Bridge Length = 24.75 Rm.

1. Foundation	Rs.	58.98 L
2. Sub-Structure	Rs.	25.88 L
3. Super Structure	Rs.	63.64 L
Total =	Rs.	148.50 L
Add. 1% for Soil test etc	Rs.	1.49 L
Approaches and protection	Rs.	43.00 L
Total =	Rs.	192.99 L
(A) Grand Total =	Rs.	193.00 L

(B) For Bridge Length = 17.50 Rm.

1. Foundation	Rs.	41.80 L
2. Sub-Structure	Rs.	16.22 L
3. Super Structure	Rs.	46.98 L
Total =	Rs.	105.00 L
Add. 1% for Soil test etc.	Rs.	1.05 L
Approaches and protection	Rs.	39.00 L
Total =	Rs.	145.05 L
(B) Grand Total =	Rs.	145.00 L

Grand Total for (A) + (B) = Rs. 338.00 Lakhs

Rates are based on the current schedule of rates of Assam Public Works Department. The average rates are as follows :-

(a) Bridge proper = Rs. 6.40 Lakhs /Rm

(b) Approaches & Protection Works :-

(i) Upto 20 Rm Bridge length — Rs. 35.00 Lakhs

(ii) From 20.01 Rm to 30 Rm Bridge length — Rs. 35.00 + (L - 20) x 2.00 Lakhs

(iii) From 30 Rm to 50 Rm Bridge length — Rs. 50.00 + (L - 30) x 2.50 Lakhs

(iv) Above 50 Rm Bridge length — Rs. 100.00 Lakhs

(Where L = Bridge length in meter)

Asstt. Executive Engineer, PWD
Sarihajan Roads Sub-Division, Sarihajan.

Executive Engineer, PWD
Borpathar Road Division, Silonijan.

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7. IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM :-

The implementing agency will be the Public Works Department of the Govt. of Assam comprising more than 7000 Junior Engineer and 1300 qualified, experienced graduate engineers who have to their credit, complation of more than 1400 Nos. of RCC Bridges under various projects like World Bank, NABARD, loan assistance, PMGSY (Bharat Nirman -- Regular ADB), NEC, Border Roads Dev lopment schemes and state plan.

The Executive Engineer, PWD, Borpathar Road Division, Silonijan will be the Nodal Officer and the project will be implemented under the supervision of the Borpathar Road Division as per his jurisdiction. This Project is formulated as per direction of the Addl. Chief Engineer, PWD (R&B) Hills, Assam with data base from the Executive Engineer, PWD, Borpathar Road Division and his team of Engineer and field staff.

8. STATUTORY CLEARANCE (From Forest and Population Control Board):-

Since this is a road project along and within the existing alignment, clearance from forest is not necessary.

Pollution in non-entity, as such permission from pollution control board is not necessary.

9. ROAD AT A GLANCE :-

Name of Road :- ***"Improvement/Construction of road from Moisokilling at DS road to Mulhoi via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"*** **Name of District** :- Karbi Anglong.
PWD Division :- Borpathar PWD Road Division.
Location :- Latitude 25° - 26° North
Longitude 92° 93° East.
Terrain :- 3.00 Km ----- 25.00 Km ------Hilly Terrain
Alignment :- Existing alignment will serve the purpose

Existing route features :-

Total Length	:- 25.00 Km
Starting point	:- At 11th Km of Diffai Sarihajan(DS) road
Ending point	:- At Mulhoi, Dist.- Karbi Anglong.
Lane	:- Single Lane (3.75 m width)
Type of Road	:- Earthen
Formation	:- 7.50 m
CD Structure	:- 73 Nos.(64 Nos. single, 6 Nos. double & 3 Nos. four opening of 1000 mm dia NP3 HP Culvert)
Bridge	:- 2 Nos.

Important Places :- Saijang village,Angjok Engti, Kania Bey, Subba Basti, Mulbung, Mulhoi etc

10. AVAILABILITY OF LAND :-

Land acquisition is not at all necessary, as the road will flow the existing alignment, which is presently on PWD land Govt. land.

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Material Survey :-

The construction materials can be obtained as follow :-

(i) Soil for Earthwork - Nearby borrow pits in an around five Km. from worksite

(ii) GSB - Silonijan quarry.

(iii) Chips Crushed stone metal etc :- Rangagan Plant.

11. Labour and Equipment :-

(a) Labour :- Normal man powers required for the project are available in and around the worksite.

(b) Equipment - Necessary construction equipment will be borne by the contracting agency. Available Departmental equipment could also be utilized as and when felt necessary on hire charge basis, subject to availability on good condition.

11.1 SCHEDULE OF RATE :-

The project has framed on the basis of the Schedule of Rate (SOR) for State Highways and Major District Roads for the year 2018-19 for all division under Assam PWD current in the state. Item not covered by the SOR are analysed on the basis of either SOR or on Market value whichever the case may be.

12. IMPLAMENTATION SCHEDULE :-

The physical phasing for implementing the road project will be after getting formal sanctioned from competent authority and that the work will be executed through contractor after finalization of national competitive bids and formal allotment of the works through departmental procedure as follows.

12.1 PHYSICAL :-

12.1.1. a. <u>Pre construction stage</u> :-

(i) Survey, Soil investigation and design of the structures and submission of DPR - 2 month

(ii) Formal Sanction of the project - 2 months (Approx.)

(iii) NIT and issue of Work Order - 2 months

12.1.1.b. Construction Stage :-

(i) Commencement of work - 15 days from the date of order to proceed with the Work - Formal Work Order

(ii) Time of Completion - 24 months

(iii) Working Season - The working season is from September - October to March - April subject to weather condition and coming of monsoon.

12.2. Financial:-

Year	Financial
2021 - 22	Rs. 2080.00 Lacs
2022 - 23	Rs. 2323.00 Lacs

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Progress of works will be reported on quarterly basis on prescribed format furnished by DONER through departmental procedure. During any field inspection by DONER official etc the Engineer-in-Charge etc of the project under PWD Borpathar Road Division will accompany them for the purpose of monitoring and evaluation of implementation of the project. The Utilization Certificate of the fund release and received will also be furnished as required before subsequent release of fund. Wide publicity of the project as required by DONER and as a convention will be given by advertisement in News Paper and providing signboard etc

13. MAINTAINANCE ARRANGEMENT FOR POST CONSTRUCTION OF THE PROJECT :-

Govt of Assam has accepted the road maintenance policy and a road board (ASRB) is formed creating a dedicated road fund with a corpus of Rs. 60 Crores was to begin with. Maintenance of the other road component viz. Bridges will also be the subject of the Road Board

14. PROJECT FORMULATION PROCESS :-

Once this concept paper is accepted in principle, detail survey and design of road and Bridge culvert will be completed and DPR will be submitted.

15. DESIGN AND BLUE PRINT :-

The design of the Road works is in accordance with IRC code of practices and ISI and ISO quality Management Systems. The design of other works viz Drains, CD's and protection work etc are also made following the above codes and latest GOI guidelines. Blue prints for drawings of pavement and other works along with sketch map of the location of the road stretch will be submitted along with the DPR. The arranged of water supply during the construction will have to arranged by the contracter. The provision hence not included in this estimate.

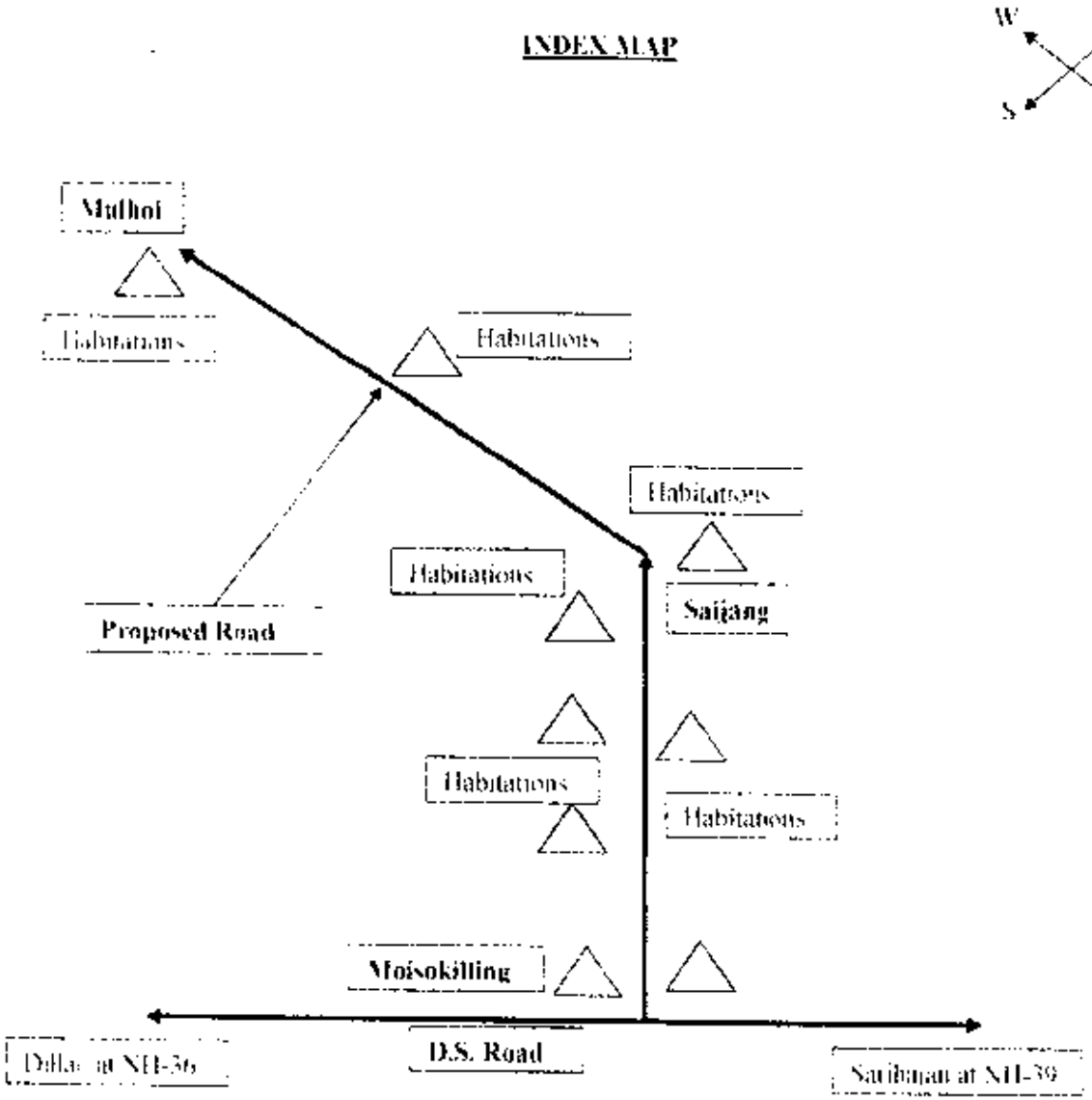
Asstt. Executive Engineer, PWD(R)
Sarihajan Roads Sub-Division,
Sarihajan..

Executive Engineer, PWD(R)
Borpathar Road Division,
Silonijan.

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Name of Works :- *"Improvement/Construction of road from Moisokilling at DS road to Mulhoi via Saijang."(L=25.00 Km.) Under North East Special Infrastructure Development Scheme (NESIDS) for the year 2021-22"*

INDEX MAP



Asstt. Executive Engineer, PWD
Saiburan Roads Sub-Division, Saiburan

Executive Engineer, PWD
Barpathar Roads Division Silchar

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Annexure R

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: R **State: Assam**

Name of Project: Construction of road from ND Block to Arlongvoti (L=40 KM).

Project Description/Summary (not exceeding 200 words): The Road of mentioned length is proposed to be constructed with 5.50 m hard crust, 9.00m formation width and 12.00 m clear roadway of same length.
This road starts from ND Block and ends at Arlongvoti under Bokajan LA in East Karbi Anglong District of Assam State. The proposed re-construction portion is between Silonijan and Kohora (Ch.0.00m to Ch.40000.00m). This stretch of road is B.T. Due to increase in traffic volume day by day it is necessary to strengthen the existing road. The existing road has been damaged due to incessant rain and submerged at several stretches due to inadequate or unserviceable cross drainage, resulting over topping.
The proposed work will result in remarkable improvement of communication in Karbi Anglong District of Assam State directly benefiting the agricultural, horticultural & Forest.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 101.97 Crore
1.2	**Whether lying in backward areas**	Not mentioned
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Physical infrastructure relating to Connectivity
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	Not mentioned	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	SG has not sought O & M component.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	

S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**	
1	Clearing and Grubbing of Road Land	0.14	
2	Construction of Subgrade & Earthen Shoulder	1.74	

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3	Earth work in excavation	0.28	
4	Construction of GSB	2.76	
5	Construction of WMM 1st layer	10.55	
6	Construction of WMM 2nd layer	10.55	
7	Prime Coat	1.05	
8	Tack Coat	0.24	
9	DBM	12.32	
10	BC	8.86	
11	Construction of Bridges=11 nos	28.7	
12	Approaches and protection work	1.65	
13	Pucca Drain	1.33	
14	Retaining Wall	2.58	
15	Cost of DPR Preparation	0.13	
	Total=	82.88	
16	Add GST .....=12%	9.95	
17	Add Hills Premium ..... =10%	8.29	
18	Add Labour Cess .....=1%	0.83	
	Grand Total	101.97	
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	For the above stated items/quantities - NIL	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**		
1.8A	**Original**		vide letter No. PDP(PP) 10/2021/40 dated 28.05.2021
1.8B	**Revised (if any)**		
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	State Govt has furnished Non Duplication Certificate countersigned by Addl Chief Engineer, PWD(R&B)	
3	**Normative allocation of SG and related details**	**•Tentative Normative allocation for NESIDS 2021-22:- Rs. 333.36 crore • Projects already Selected – Rs. 27.80 crore**	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	Ministry od Road Transport & Highways	29.06.2021	Yet to receive
	Niti Aayog	14.10.2021	Yet to receive
	Technical Wing, MDoNER	29.06.2021	09.08.2021
	IFD, MDoNER	14.10.2021	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	copy enclosed.
	(c) Approval of CS	No	Under Priority List 2021-22

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	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: :** TW, DoNER comments are : (a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.		
7	**Important observations/comments of Prog. Division**		
	The project pertains to road infratsructure and is in conformity with NESIDS guideline. Program Division recommends the proposal for consideration under NESIDS.		

(Dated Signature & Name of
Under Secretary concerned)

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(15)

GOVT. OF ASSAM

सत्यमेव जयते

OFFICE OF THE EXECUTIVE ENGINEER, PWD
BARPATHAR ROAD DIVISION,SILONIJAN
DISTRICT: KARBI ANGLONG (ASSAM)

PROJECT CONCEPT PAPER

NAME OF WORK: - CONSTRUCTION OF ROAD FROM ND BLOCK TO ARLONGVOTI.LENGTH=40.00 KM UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

ESTIMATED AMOUNT RS. : Rs. 10197.63 *Lakhs*
(Rupees One Hundred One Crore Ninety Seven Lakhs and Sixty Three Thousand) *Only*

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NON DUPLICACY CERTIFICATE

This is to certify that the Project

NAME OF WORK: - CONSTRUCTION OF ROAD FROM ND BLOCK TO ARLONGVOTLLENGTH=40.00 KM UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

has neither been taken up nor proposed under state plan, PMGSY, NABARD, RIDF etc. under state & Central Government.

Asstt. Executive Engineer, PWD
Chowkihola Road Sub Division.
Chowkihola

Executive Engineer, PWD
Barpathar Roads Division.
Silonijan

Counter Signed
2.7.1.5/2021
Addl. Chief Engineer
PWD (R&B), Hills, Assam, Diphu

Counter signed
Superintending Engineer,PWD(R&B)
Diphu Circle-I

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31. No. 15

NAME OF WORK:
CONSTRUCTION OF ROAD FROM ND BLOCK TO ARLONGVOTLLENGTH=40.00 KM UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

ABSTRACT OF COST

Sl. No.	Name of Works	Amount (Rs. in L)
1	Clearing and Grubbing of Road Land	14.11
2	Construction of Subgrade & Earthen Shoulder	173.76
3	Earth work in excavation	27.85
4	Construction of GSB	276.09
5	Construction of WMM 1st layer	1055.14
6	Construction of WMM 2nd layer	1055.14
7	Prime Coat	105.59
8	Tack Coat	24.19
9	DBM	1232.36
10	BC	886.36
11	Construction of Bridges 11 nos	2870.00
12	Approaches and protection work	165.00
13	Pucca Drain	133.24
14	Retaining Wall	258.59
15	Cost of DPR Preparation	13.35
	Total=	8290.77
	Add GST .....=12%	994.89
	Add Hills Premium .....=10%	829.07
	Add Labour Cess .....=1%	82.90

Total= Rs.10197.63 Lakhs

(Rupees One Hundred One Crore Ninety Seven Lakhs and Sixty Three Thousand) Only

Executive Engineer, PWD
Chowkihola Road Sub Division,
Chowkihola

Executive Engineer, PWD
Harpathar Roads Division,
Silonijan

Addl. Chief Engineer
PWD (R&B), Hills, Assam, Dispur

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NAME OF WORK:

CONSTRUCTION OF ROAD FROM NO BLOCK TO ARLONGVOTLLENGTH=40.00 KM UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

PROJECT CONCEPT PAPER.

1. INTRODUCTION:

The State:

Assam a state in the North Eastern Region, despite a number of existing tea, plywood cement factories, has been considered as basically pre-industrial through a wide range of industries could develop. The state is endowed with rich sources of oil, gas, coal, limestone, forest wealth and extremely high hydropower potential offering scope of rapid industrial development. The valley portion, consisting of fertile soil drained by the two major rivers and its tributaries offer the people a bright prospect and wide option to cultivate and live upon. The land is ideally suited to produce a whole range of plantation crops, spices, flowers and leons much of which could be processed and exported to the rest of the country as well as abroad, but the same will not be possible without removing the communication bottlenecks.

The state has a numbers of wide life sanctuaries and temples of international repute attracting tourists from within the country as well as abroad. In spite of such high potential, the economy of the state is still simple, heavily deficit and dependent on the rest of the country for many basis needs. This can be attributed to the poor communication scenario in Assam. The existing road network in the state with the inadequate capacity, poor riding quality, weak pavement, poor-geometries, submersible stretches, semi permanent timber bridge, etc.This has a serious impact in the development and social activity in the region.

The District:

Karbi Anglong literally means Karbi Hills, lies in the middle of Assam state, sandwiched between the Brahmaputra valley in the North and the Barak valley in the South. Essentially a hill area, its low hills link the Meghalaya state on the western side and the state of Nagaland on the eastern flank. The district with dense tropical forest covered hills and flat plains is situated between 25°33' N to 26°35' N Latitude and 92°10' to 93°50' E Longitude.

The dominant tribes are the Karbis who mostly live in the hills being dependent on slash and burn cultivation. The 10, 434 Sq. Km area holds a population of 880 thousand (as projected for 2005) whose decadal growth rate stands at 22.72%, with an average population of 283 persons per village.

The density of population is 78 per Sq. Km. In spite of heavy influx from the over populated mainland the indigenous tribes constitute 55.69% of the population. Only 11.30% of the populations live in the urban areas while the rest live in 2563 villages in the rural areas.

The N.F. railway passes through the district touching only a few points along the boundary. They are Hawaiatur, Lumsakhang, Borlangphar, Langsolieh, Nilalung, Diphu, Doldolai, Dhansiri, Rongapahar, Khutkhati and Bokajan.

The district, a mix of plains and hills geographically and a treasure trove for various agricultural products and the land is ideally suitable to produce medicinal plants, and fruits like orange, pineapple, banana, crops like paddy, mustard, maize, etc. and not mention the other two major agro-forestry produce, cane and bamboo but the same will not be possible removing the communication bottlenecks.

This enchanting hills district with its diversely rare flora and fauna has remained untouched and undiscovered. Mother nature has indeed been very generous to Karbi Anglong yet its potentialities for various remain sadly untapped.

In spite of such high potential, the economy of the district is still implied, heavily deficit and dependent on the rest of the country for many basic needs. This can be attributed to the poor communication scenario in the district. The existing road network in the district has inadequate

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capacity, poor riding quality, weak pavement, poor geometrics, submersible stretches, semi permanent timber bridges etc.

2. ***SECTORAL POLICY:***-This Project Concept Paper has been prepared as per the State Govt.Circular/Notification.

3. ***SUMMARY OF PROJECT:-***

Construction of Road as proposed above is to be implemented under NESIDS for the financial year 2020-21

Road of mentioned length is proposed to be constructed with 5.50 m hard crust, 9.00m formation width and 12.00 m clear roadway of same length.

Estimated amount when assessed comes to Rs. 10197.63 Lakhs

4. ***JUSTIFICATION FOR TAKING UP THE PROJECT:-***

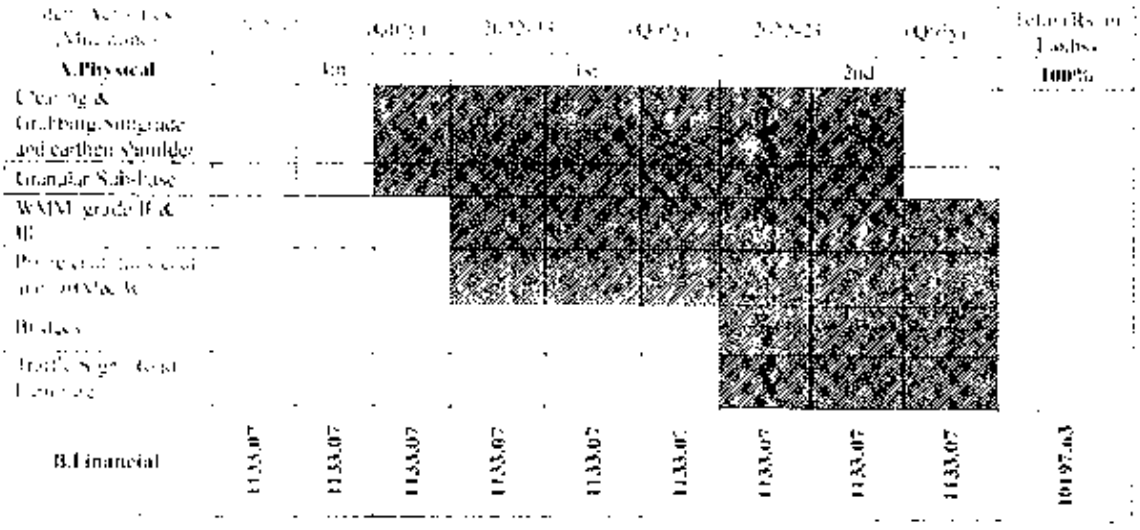
This road starts from N.D Block and ends at Arlongveti under Bokajan I A in East Karbi Anglong District of Assam State.The proposed re-construction portion is between Silonijan and Kohora (Ch.0.00m to Ch.40000.00m) .This stretch of road is B.T.Due to increase in traffic volume day by day it is necessary to strengthen the existing road .The existing road has been damaged due to incessant rain and submerged at several stretches due to inadequate or unserviceable cross drainage, resulting over topping, water logging. Some times storm water coming down from the hill and damages the road every year during monsoon. To improve the road to proper gradeeamber & to free flow of water, it is necessary to strengthen the road with side drain, cross drain, culvert etc. properly. This section of road is passes through a thickly populated area and connects important institutions, School, Health Center, and other Commercial Places etc. This is the only route which connects with the district head quarter Diphu and important township like Golaghat, Dimapur etc. The road serves as the most important one for the peoples of this area for communication, carriage of essential commodities, life saving medicines etc. But at present the condition of the road is in depleted.Due to which the people living in this area is facing many difficulties for communication as well as for transportation and business purpose. This has become the main barrier-obstruction to the upliftment of the condition of the people living in these areas. Thus the strengthening of roads is mostly felt for smooth communications which will suddenly upgrade the socio-economic status of the roads influence area.

It connects many villages and of agricultural product besides connecting schools, hospitals, markets etc.. But at present the condition of the road is in depleted condition. Thus the improvement of road is mostly felt for smooth communication which will suddenly upgrade the socio-economic status of the roads influence area.

The proposed work will result in remarkable improvement of communication in Karbi Anglong District of Assam State directly benefiting the agricultural, horticultural & Forest.

After completion of the project the socio-economic infra-structure of the people of this area will be developed

5. ***PHYSICAL & FINANCIAL PHASING OF THE PROJECT (YEAR-WISE):-***



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6. COST ESTIMATE:-

NAME OF WORK: *CONSTRUCTION OF ROAD FROM ND BLOCK TO ARLONGVOTLLENGTH=40.00 KM UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.*

Sl. No.	Name of Works	Amount (Rs. in L)
1	Clearing and Grubbing of Road Land	14.11
2	Construction of Subgrade & Earthen Shoulder	173.76
3	Earth work in excavation	27.85
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8	Tack Coat	24.19
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10	BC	886.36
11	Construction of Bridges 11 nos	2870.00
12	Approaches and protection works	165.00
13	Pucca Drain	133.24
14	Retaining Wall	258.59
15	Cost of DPR Preparation	13.35
	Total=	**8290.77**
	Add GST .....=12%	**994.89**
	Add Hills Premium .....=10%	**829.07**
	Add Labour Cess .....=1%	**82.90**

Total= Rs.10197.63 Lakhs

(Rupees One Hundred One Crore Ninety Seven Lakhs and Sixty Three Thousand) Only

Asstt. Executive Engineer, PWD
Chawlkhola Road Sub Division,
Chawlkhola

Executive Engineer, PWD
Bazardisar Roads Division,
Silchar

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7. *IMPLEMENTING AGENCY AND PROJECT FORMULATION TEAM :*

The implementing agency will be the Public Works Department of the Govt. of Assam comprising of more than 1500 qualified and experienced graduate engineers, who have to their credit, completion of 1223 Nos. of RCC Bridge under various projects like World Bank, NABARD loan, NEC, Border Roads schemes and state plan. The Executive Engineer of Barpathar Roads Division will be the Nodal Officer and will be the Engineer in charge of the project. The project is formulated under the control of the Chief Engineer, PWD (Roads) with database from the Executive Engineers, Barpathar Road Division and his team of Engineers.

7.1 *STATUTORY CLEARANCE:*

Since this is a road project along the existing embankment clearing from Forest is not necessary. Pollution is non-entity as such permission from Pollution Control Board is not necessary.

7.2 *AVAILABILITY OF LAND:*

Land acquisition is not necessary, as the road will follow the existing alignment and if necessary the land will be donated by the public as like in case of construction of Roads.

7.3 *IMPLEMENTATION SCHEDULE:*

7.3.1 *PHYSICAL:*

7.3.1. a. Pre construction stage:

(i) NIT and issue of work order - 2 Months

7.3.1. b. *Construction Stage:*

(i) Commencement of work: 15 days from the date of issuing formal work order.
(ii) Time of completion : 24 Months.

7.3.2. FINANCIAL

Year	Financial Progress
2021-22	3399.211 (33%)
2022-23	6798.421 (67%)

8. *MAINTENANCE ARRANGEMENT FOR THE PROJECT:*

Govt. of Assam has accepted the Road Maintenance Policy and a Road Board is formed creating a dedicated road fund with a corpus Rs. 60 Crores to begin with. Maintenance of the bridges will be the subject of the Road Board.

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9. *PROJECT FORMULATION PROCESS* :

Once this concept paper is accepted in principle, detail survey and design of road and Bridge /Culvert will be completed and DPR will be submitted.

10. *DESIGN,DRAWING & ESTIMATE* :

The design of the Road and other cross-drainage systems have been prepared in according with the IRC code of practices for roads and bridge designs and ISI & ISO Quality Management Systems. All detailed estimates,drawings and designs will be submitted in the DPR. However a site plan has also been enclosed herewith.

11. *SCHEDULE OF RATE*:

The Detailed Estimates of the proposed work is prepared based on the basis of Schedule of Rate (SOR) for State Highways and Major District Roads for the year 2018-19 for all division under Assam PWD current in the state.

Asstt. Executive Engineer, PWD
Chowkihola Road Sub Division,
Chowkihola

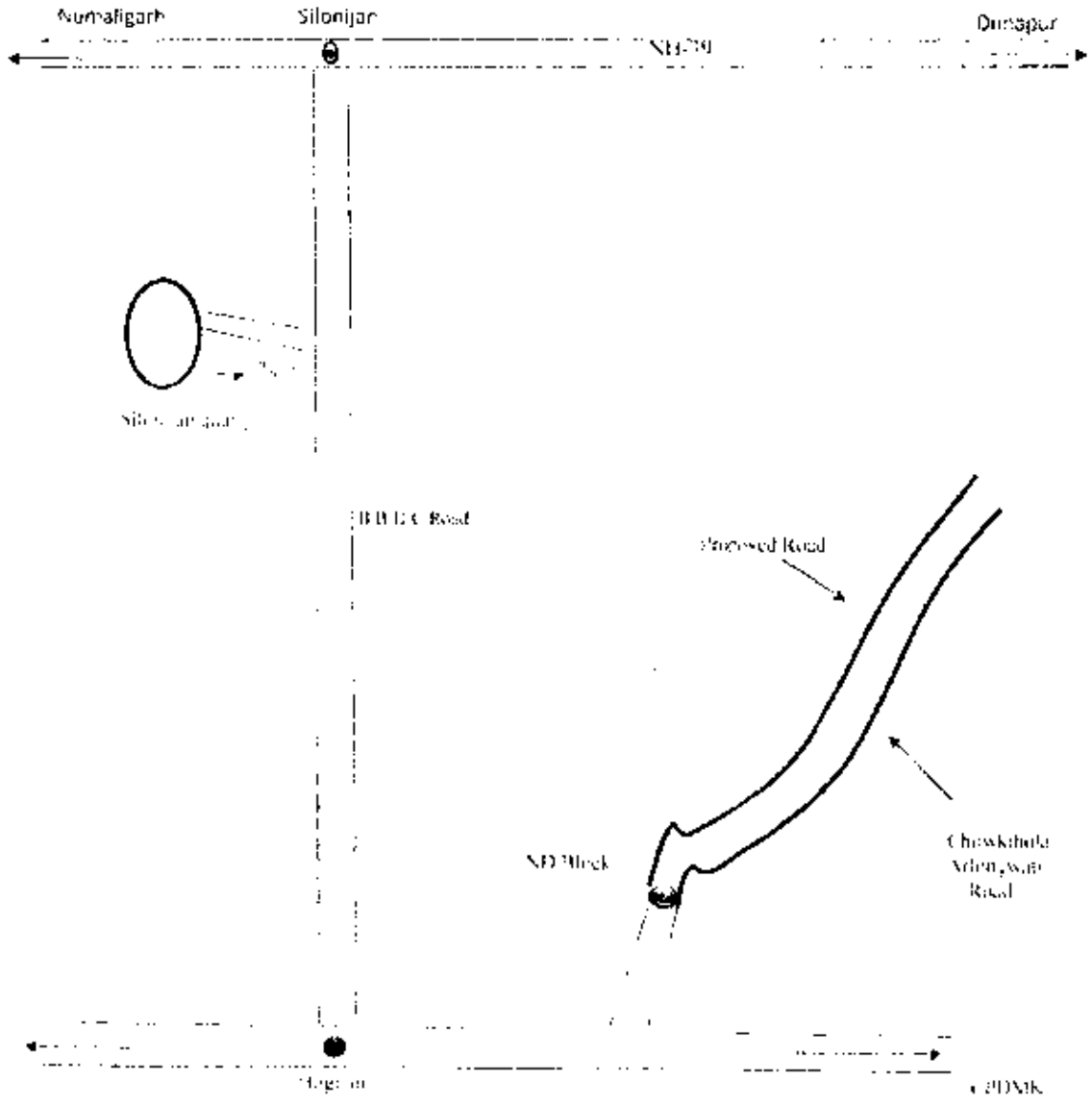
Executive Engineer, PWD
Bargathar Roads Division,
Silonijan

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NAME OF WORK: - CONSTRUCTION OF ROAD FROM ND BLOCK TO ARLONGVOTILENGTH=40.00 KM UNDER NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME(NESIDS) FOR THE YEAR 2021-22.

Index Map

Not to scale



Executive Engineer, PWD
Executive Engineer, PWD

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

:. Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 09.08.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Assam for funding under North East Special Infrastructure Development Scheme (NESIDS).

Please refer to your Office Memorandum No. NESIDS-12/1/2021-O/o US (NLCPR) dated 29.07.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Widening & Improvement of Bhadoi Panch Ali to Joypur Khonsa Road via Tipom.	60.00	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) The amount of Rs 34.50 crore has been taken for construction of RCC Bridge of span 450m which seems on higher side. State Govt. may be asked to convey on what basis this cost has been considered. (c) The MSA & CBR value is not mentioned.
2.	Widening and Strengthening of Nalbari Palla road at Solmara to Bangaon Jagra road via Billeswar Devalaya.	23.91	(a) The provision @ 2% on account of contingency has been taken. Program division may like to see. (b) The provision of Quality Control @ 1% has been taken which may be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (c) A layer of WBM- III of thickness 75mm has been provided on the GSB in the widened portion of road but as per IRC code, WMM has to be provided. (d) 3% extra for widening has been considered for different items like GSB, WMM, WBM, DBM, BC and Tack/prime coat. State Govt. may be asked to clarify. (e) The MSA & CBR value is not mentioned to ascertain the thickness of different layers proposed in the road.
3.	Improvement & Widening of Lokopriya Gopinath Bordoloi road, SH-3B from Ch. 0.00 KM to Ch. 18.65 KM	85.50	(a) The MSA & CBR value is not mentioned to ascertain the thickness of different layers proposed in the road. (b) The weightage of the layers of exisiting road has not been considered while prepration of cost estimate. (c) The length of the RCC Bridges and culverts has not been deducted in the length of the road while prepration of cost estimate. (d) The lump sum provision @ Rs. 3.20 Crore on account of road furniture has been taken which seems on higher side. (e) The provision @ 2% on account of contingency has been taken. Program division may like to see.
4.	Improvement & Upgradation of Jamuguri to Nagsankar connected road (Ch. 0.00 KM to Ch.	20.09	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned.

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	12.50 KM) in Sonitpur District.		(d) The formation width is not mentioned in Concept Notes. (e) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
5.	Improvement & Upgradation of Maibong Semkhor road (Ch.0.00 KM to 28.32 KM).	78.11	The thickness of pavement layers like GSB, WMM, DBM and BC has been considered as per IRC 37: 2001 for CBR value 6% and MSA 5. But the latest code is IRC 37: 2018. State Govt. may be asked to adopt the same and prepare cost estimate accordingly.
6.	Improvemnent & Strengthening of Bishmuri Saralpara Serbhog road in Kokrajhar District.	72.11	(a) The cost of GSB, WBM Grade – II and WBM Grade – III has been taken in the Cost Appraisal whereas in the Typical Cross Section (Strengthening) these layers have not been shown. Moreover, in typical section layer of BM (75mm) and DBM (75 mm) considered which does not seems correct. The State Govt. may be asked to review the typical cross section as per IRC Code and prepare the estimate accordingly. (b) The MSA & CBR value is not mentioned. (c) The provision @ 2% on account of contingency has been taken. Program division may like to see. (d) The provision of Quality Control @ 1% has been taken which may be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (e) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
7.	Construction of road from CPDMDK (SH-35) road at Dolamara to Lower Tara-Aji Longhup.	52.56	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) The formation width is not mentioned in Concept Notes. (e) The provision of Quality Control @ 2% has been taken. The quality control @ 1% is to be considered only when 3rd Party Quality Assurance has been deployed at the Work. State Govt. may be asked to clarify. (f) The provision of Interlocking Cement Concrete (CC) Block Pavements has been taken. There will be movements of the commercial vehicles also. State Govt. may be asked to give the justification of providing Interlocking CC Pavements instead of Bitumineous layers. (g) The Earth Work amounting to Rs 6.86 crores has been taken which seems on higher side as stated in concept note that alignment mostly follow the existing road.
8.	Construction of RCC Bridge No. 3/1 on the road from NH-39 near Silonijan State Dispensary to Dhanshri Par Ghat via Panika basti (including approach)	22.24	In abstract of cost, the total amount of different components has been mentioned. No technical details has been provided to offer the comments.

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9.	Improvement of road from Hidipi Bazar at DS road to Bokajan via Ghandhipur (L=18.00 KM).	26.23	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
10.	Improvement of road from 5th KM of BBDC road to 4th KM of Rishakhidi road (Ch.0.00KM to 8.00KM).	22.89	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
11.	Improvement of road from 16th KM of BBDC road to Phangcherrop (Ch.0.00KM to 14.00KM).	44.31	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify. (e) The provision @ Rs. 3.15 Crore on account of road furniture has been taken which seems on higher side.
12.	Improvement/ Construction of Road from Moisokilling at DS road to Mulhoi via Saijang (L=25 KM).	43.23	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.
13.	Construction of road from ND Block to Ariongvoti (L=40 KM).	101.97	(a) In abstract of cost, the total amount of different components has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b) No specifications of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.

This issued with the approval of Superintending Engineer (TW).

9/8/2021
(Parveen Kumar)
Executive Engineer (TW)

To

Shri Akhilesh Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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Annexure 8

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: 8 **State: Assam**

Name of Project: Implementation of Tele- Education for 543 Pratyabhan School in Assam.

Project Description/Summary (not exceeding 200 words): It is proposed to establish Virtual Classrooms Powered by Artificial Intelligence in 543 Schools across Assam. All the proposed 543 schools are in rural areas. The Studio-based teaching model will be used with Bi-lingual (English and Assamese) media of instruction with regional dialects as required. Solution enables teaching using interactive multimedia content from the studio, thus ensures high-quality academic inputs reach all students. As the solution is integrated with Artificial Intelligence (AI) and Big Data, data-driven remedial teaching plans will be created at State, Division, District, and Blocks levels.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 33.90 Crore
1.2	**Whether lying in backward areas**	Entire state
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Social Infrastructure related to Primary/Secondary Sectors of Education
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	N/A	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	State Govt. has requested funds for Manpower and Operation.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper**

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1	Infrastructure at schools- Includes UPS with Solar Panel, laptop, Interactive application, HD Short throw Projector, Satellite Communication system, Student Evaluation Kit with SO Transmission Device per school and receiver, 4.1 Speaker, Full HD camera, Microphone, Podium, WI-FI router and accessories. (Five Year warranty)	543	33.08
2	Broadcasting Studio- Centralized Studio : HD Camera Setup with HD Switcher, Audio System, Microphones, Professional Display, Talkback, Led Lighting, Sound Proofing, Acoustics, Air Conditioning and Recording facility (Five Year Warranty)	1	0.62
3	Operation per annum- Manpower and operations	1 year	0.2
	Total		33.9
1.7A	Out of above, SG's Contribution in the Project Cost, if any	For the above stated items/quantities - NIL	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	For the above stated items/quantities - NIL	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.8A	Original	28.05.2021	vide letter No. PDP(PP) 20/2019/pt/104 dated 28.05.2021
1.8B	Revised (if any)	Clarification	Dated 01.10.2021
2	Is the project in question supported/coverable under any other scheme of Central or State Government	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	Normative allocation of SG and related details	•Tentative Normative allocation upto Sep 2021-22:- Rs. 85.98 crore • Projects already Selected – Rs. 34.98 crore	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (If any)
	Ministry of Education	29.06.2021	yet to receive
	Ministry of Electronics and Information Technology	29.06.2021	yet to receive
	Niti Aayog	29.06.2021, 27.10.2021	03.08.2021
	Technical Wing, MDoNER	29.06.2021	30.06.2021
	IFD, MDoNER	29.06.2021	yet to receive
5	Whether proposal has been accompanied with the following documents		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	
	(c) Approval of CS	No	Information sought from SG.

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	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:**		
7	**Important observations/comments of Prog. Division**		
	The project pertains to social sector and is in conformity with NESIDS guideline. The project was also discussed in 29th IMC Meeting held on 23.07.2021. The Committee advised the State Govt. officials to revisit the proposal keeping in view the comments from NITI Aayog, line Ministries, IFD MDoNER and other stakeholders and send it with detailed technical analysis, feasibility study, etc. The Committee deferred the proposal and advised the State Government to suitably address and incorporate the above observations before resubmitting the proposal. SG has furnished the detailed proposal and clarification on the observations of NITI Aayog. However, the project is not in the prioritised list of projects submitted by Secretary (Planning), Govt of Assam. PD has aksed SG whether the project is in adition to the projects of prioritised list.		



(Dated Signature & Name of
Under Secretary concerned)

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F. No. M-13013/40/2020-S-NE
Government of India
NITI Aayog
(NE States Division)

NITI Bhawan, Sansad Marg
New Delhi-110001
Date: 03.08.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Govt. of Assam under NESIDS for FY 2021-22.

Please refer to M/o DoNER's OM dated 29.6.2021 regarding project proposal submitted by Govt. of Assam under NESIDS for FY 2021-22 namely 'Implementation of Tele-Education for 543 Pratyabhan School in Assam' costing Rs. 3390.00 lakh.

2. The proposal has been examined in NITI Aayog and the observations on the proposal are as under:

i. In the times of the pandemic, classes are not happening in the school campus. It is not clear for how long the schools would remain closed and when they re-open, whether classes will become fully offline and regular. Such a situation cannot be ignored in light of the huge investment the project demands in the school campuses.

ii. No pilot study has been conducted or proposed. Pilots are necessary to identify challenges and also gauge whether the investment would be justified and helpful in really improving learning outcomes.

iii. No detailed reasoning has been provided for the project. No need analysis has been conducted before proposing the investment, especially with regards to how it may improve learning outcomes.

iv. In the proposed project, there is no mention about maintenance costs and management of the infrastructure installed. It is common to see such infrastructure often not working in schools and school teachers not being able to use it.

v. It might be useful to also identify opportunity costs of such investments. At present, lack of access to digital devices among public school students acts as a massive constraint to their learning during the pandemic. It would instead be useful to plan how to make these devices available to students in remote areas, under Digital Assam.

vi. There are many free online portals of Government of India that provide access to high quality education in the country, such as SWAYAM, Diksha, National Digital Library of India, etc, to name a few. There may be little sense in reinventing the wheel by the state. To facilitate student participation, the concept of Flipped Classrooms may be encouraged in schools.

3. Further, it is to mention that now it is evident by many studies/reports that there has been significant amount of learning-loss for the students due to the pandemic. This learning regression has been more severe for the children belonging to the economically weaker sections of the society. Also, the Pandemic has created a type of Digital-divide for the students who don't have access to the smart devices.

Contd...2/-

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4. The proposal regarding implementation of Tele- Education through satellite for '543 Pratyabhan Schools in the rural Assam' seems to have potential of bridging the learning-loss and Digital- divide among the disadvantaged groups of rural areas of Assam and may be very critical during Covid / post- Covid times.

5. In view of the above, the proposal is supported subject to the clarification of the issues raised in para 2 (i) – 2 (vi) above.

(T.Kabilan)
Director (NE States)

Shri A.K.Pandey
Under Secretary
M/o DoNER
East Block-10
Level-4, R.K. Puram
New Delhi-110066

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GOVERNMENT OF ASSAM
TRANSFORMATION AND DEVELOPMENT DEPARTMENT
DISPUR, GUWAHATI

NO PDP(PP) 10/2021/137 Dated Dispur the 1st October/2021

From: Shri M.P. Rajkhowa
Joint Director (PP)
Transformation and Development Department

To: Shri S.D. Meena
Deputy Secretary, Ministry of DoNER, GoI
East Block-10, Level-IV, R.K. Puram
New Delhi- 110066

Sub: Submission of clarification of project under NESIDS

Ref: MDoNER' letter No. Coord--14/8/2021- o/o US(NLCPR) dated 12/08/2021

Sir,

With reference to the subject cited above, I am directed to forward here with the Clarifications in respect of the proposed project " Implementation of Tele- Education for 543 Pratyabhan Schools in Assam" under NESIDS as sought by the 29th Meeting of IMC/ NESIDS Committee held on 20/07/2021 for favour of your kind information and necessary action.

Yours faithfully

Enclo: As stated above

01-10-2021
(M.P. Rajkhowa)
Joint Director (PP)
Transformation and Development Department

Memo No PDP(PP) 10/2021/ 137 -A Dated Dispur the 1st October/2021

Copy to:

1.P.S. to the Additional Chief Secretary Transformation and Development Department, Dispur for kind information of the Additional Chief Secretary.
2.PS to the Principal Secretary Secondary Education Department , Dispur for kind information of the Principal Secretary

01.10.2021
Joint Director (PP)
Transformation and Development Department

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শিক্ষাৰ অধিকাৰ

OFFICE OF THE MISSION DIRECTOR

AXOM SARBA SIKSHA ABHIYAN MISSION

KAHILIPARA, GUWAHATI-781 019, ASSAM

No. SSA/MIS/NESIDS(DONER)/285/2021/ Date.31.08.2021

From: Smt. Roshni Aparanji Korati, IAS
Mission Director,
Axom Sarba Siksha Abhijan Mission,
Kahilipara, Guwahati -19 [Assam]

To,
T. Kabilan,
NITI Aayog (NE States Division)
NITI Bhawan, Sansad Marg
New Delhi- 110001

Sub. **Submission of Clarifications to the Observations made by Niti Aayog and a Detailed Project Proposal (DPR) for the implementation of Tele-Education for 543 Pratyahban Schools**

Ref. **OM F.No. M-13013/40/2020-S-NE Dated 03.08.3021**

Sir,

With reference to the subject cited above, I would like to thank you for consideration of project proposal regarding 'Implementation of Tele-education in 543 schools' in Assam under NESIDS for the financial year 20201-22 The detail justification as per observation raised in para 2 (i) – 2 (vi) of OM referred and DPR is enclosed for favour of your kind information.

Enclose: As stated above

Yours faithfully,

[Roshni Aparanji Korati, IAS]
Mission Director,
Samagra Siksha, Assam

No. SSA/MIS/NESIDS(DONER)/285/2021/7372-A Date.31.08.2021

Copy to:

1. The Special Commissioner & Secretary to the Govt of Assam, Education, Dispur, Assam for favour of kind information.
2. Sri A K Pandey, Under Secretary, M/o DoNER, East Block -10, Level-4, R.K. Puram, New Delhi for kind information
3. The Secretary to the Govt of Assam, Transformation & Development Department, Dispur, Guwahati-6 for kind information.
4. Addl. Secretary to the Govt. of Assam, Secondary Education Department, Dispur, Guwahati-6 for kind information
5. P.S. to Minister, Education, Assam for kind perusal of Hon'ble Minister, Education, Assam.
6. P S to Principal Secretary, Education, Govt of Assam for kind perusal of Principal Secretary, Education, Govt. of Assam

Mission Director,
Samagra Siksha, Assam

Phone 0361 2353633 2360451 2387701 Fax (0361) 2380134 [sa]

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Sub: Submission of Clarifications to the Observations made by Niti Aayog and a Detailed Project Proposal for the implementation of Tele-Education for 543 Pratyahban Schools

Ref: 1. OM F.No.M-13013/40/2020-S-NE dated 03.08.2021

2. MDoNER Meeting Dated 29th 27-07-2021

Sir,

With regards to the Office Memorandum (cited in reference 1 above) regarding our proposal to establish Tele-Education in 543 Pratyahban Schools in Assam costing 3,390.00 lakhs. Samagra Shiksha, Govt. of Assam wishes to submit a Detailed Project Report and responses to the observations made by various members during the MDoNER meeting and to the observations made by Niti Aayog for MoDoNER's reference and approval.

Government of Assam has intended to develop 1000 schools as "Pratyahban" - as Centres of Excellence which will be IT hubs in the respective districts. As a part of the initiative, 543 Composite schools with class 6 to Class 10/12 having high enrolment are proposed to be covered through Tele-Education. The number of students in the 543 schools is 2,67,139.

We wish to bring to your kind notice that since December 2018, a Tele-Education program is already in operation in 250 rural Government Schools. Under this existing project, a Broadcasting Studio is established in Guwahati for expert-led teaching. Multimedia content is developed in Assamese language for the entire curriculum of class 6 to 10 in Mathematics, Science, and English subjects. The project has been directly benefiting over 1,15,558 rural students in these schools. The current proposal is to expand Tele-Education network in the State to 543 Pratyahban Schools, which will in turn indirectly benefit students from all Government Schools.

As noted in OM point 3., there has been a significant learning loss for the students due to the pandemic. And this has been severe for the rural students and those of economically weaker sections. **In Assam, the existing Tele-Education project has demonstrated to be an essential service infrastructure during COVID 19 pandemic to continue educating many lakhs of students across the State. The studio infrastructure, e-Content, applications, and manpower were used to make remote education (LIVE and recorded) possible through an educational app, DD Northeast channel, Diksha App, and Gyanbriksha local cable TV network. Several recorded sessions in Assamese medium were broadcast. Many of these sessions have been uploaded in Diksha Portal.** The current infrastructure thus already created was very useful and completely utilised during the pandemic, however is not sufficient to cater to all the grades, languages, and the entire State.

Now, by establishing Tele-Education Platform in 543 Pratyahban - Centres of Excellence schools, department's goal is

- to create an essential virtual classroom infrastructure in schools. This infrastructure can be used during the pandemic in online teaching format and in hybrid classroom-online education format post pandemic days.

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- to create high quality digital educational content in Bodo, Bengali, and English media to upload in learner app and in several national portals and to distribute through various local and national television channels.

The Govt. of Assam wishes to expand the Tele-Education infrastructure in the State as follows:

1. Setting up a new central multimedia broadcasting studio: To be able to create high quality localised digital content in English medium and regional languages (Bodo, Bengali)
2. **Setting up 01 Analytics Powered Virtual Classroom with Tele-Education App Platform in 543 Pratyahban Schools to connect to the studio, to create local content, and for conducting regular online sessions for respective school students.**
3. Manpower for the studio operations and project operations & management.
4. Integration with existing central Tele-Education studio and applications.

We wish to submit the following responses to the observations made under points 2. i. through 2.vi:

i. ***Observation:*** *In the times of the pandemic classes are not happening in the school campus. It is not clear for how long the schools would remain closed and when they re-open, whether classes will become fully offline and regular. Such a situation cannot be ignored in light of the huge investment the project demands in the school campuses.*

Response:

Closure of schools has resulted in huge learning losses and all State Governments including Assam will open schools after due clearances from the Health & Family Welfare Department as soon as possible. At the reopening such proposed investments are necessary to make up the educational losses quickly through the digital format. It will help teachers to continually help students academically and for their holistic development, to counsel, and to mentor students affected in many ways due to the lockdowns.

The proposal includes setting up just 01 Virtual Classroom in each of the 543 Pratyahban Schools. After reopening of schools this will be mainly utilized for attending remote studio expert led sessions for class 6 through 10/12. This infra also has use during the pandemic as follows:

Each school will have satellite connectivity to connect to the studio(s) and internet through VSAT for conducting local online sessions from the school. As the VC will be enabled with **Tele-Education app platform,** local teachers can come to the school and conduct remote LIVE classes for their respective students. This application is also available in mobile app format for teachers to conduct classes from their homes. But in order to ensure high quality classes are streamed, we prefer teachers to conduct most classes from the school.

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Teachers can also create digital content videos using the Tele-education infrastructure setup at schools.

The Tele-Education platform creates content in low size videos thus it is suitable for rural students to access it on any available smartphone as detailed in the enclosed DPR. Also as detailed in the DPR, through Tele-Education platform parallel sessions can be conducted by school teachers. So if the schools reopen for batches of students, the batch in VC can attend class in-person and the batch(es) in homes can attend the same class online on the learner app.

Department plans to shortlist selected best teachers from the 543 Pratyahban schools to create content in Bodo, Bengali, English and Assamese media.

So we believe the infrastructure will be more useful during the pandemic and even post pandemic.

ii. ***Observation:*** *No pilot study has been conducted or proposed. Pilots are necessary to identify challenges and also gauge whether the investment would be justified and helpful in really improving learning outcomes.*

Response:

Tele-Education Pilot project – Analytics Powered Virtual Classroom:

As mentioned in the introduction of this letter, Tele-Education project is existing in the State and has demonstrated to be a successful model of making high quality education possible in rural schools even before the pandemic. It is proved that satellite connectivity ensures interactive lessons even in the most remote regions of the State and that it is a reliable connection with high uptime. A report on the Tele-Education Classes delivered since Dec 2018 is attached for reference.

Further, during the pandemic it helped to bridge the digital divide to a significant extent through an educational app with recorded tele-Education sessions for students who had some access to a smartphone and through Cable TV programs, and DD North East programs to reach those students who did not have a smartphone but had a television at their own home or in the neighbourhood. The multimedia content developed under Tele-Education (Assamese medium, recorded sessions, Class 6 to 10) and new sessions conducted by Government Teachers of the State from the Tele-Education Studio were LIVE streamed on various channels. Students from the entire state have benefitted from these initiatives. More details are provided in the enclosed DPR.

In the proposed project, existing satellite connectivity will be used for connecting with the studio and district level educator facilities. Also, satellite connectivity will be used for making the required internet via VSAT available for interaction, reporting, and administrative activities. Hence, there will not be any additional costs for connectivity.

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Alternative pilot project- Video Conferencing by ERNET:

The feasibility study of terrestrial internet based video conferencing solution proposed by ERNET was conducted in the State. It was found that only 32 schools including 2 DIETs has the feasibility to establish the solution. Subsequently, this video conferencing project has been established in these schools. As on date, the required setup is ready in schools and teacher training has been scheduled. Practically, stable high quality internet is not available in any other schools, so ERNET's solution cannot be scaled.

Inference:

For the Assam State, satellite connectivity is a better alternative to terrestrial internet connectivity. This has been proven through local demonstrations and the existing Tele-Education project in 250 rural schools. This solution is highly scalable across the State.

A comparison between proposed Tele-Education - Analytics Powered Virtual Classrooms which uses satellite connectivity and ERNET's Video Conferencing Solution which uses terrestrial internet connectivity is provided in the table below:

Component	TELE-EDUCATION ANALYTICS POWERED VIRTUAL CLASSROOMS	ERNET SOLUTION VIDEO CONFERENCING
Pricing Model	• Project covers 543 schools with total cost 33.90 Cr, which is 6.24 lakhs per school with 05 years' warranty. • Turnkey solution with Connectivity, Hardware, software, and assessment. • E-content in Assamese is available.	• Project covers 32 schools including (2 DIETS) with total cost 3.46 Cr which is 10.81 lakhs per school with 05 years' warranty. • Infrastructure Supply Only (Hardware, Software)
Connectivity	• Two-way VSAT connectivity is considered as part of the solution for interaction and monitoring at schools with required infrastructure and bandwidth. This overcomes feasibility issues. • The solution is a complete turnkey solution with required VSAT connectivity and internet over VSAT.	• The feasibility of 2Mbps broadband in rural areas is highly uncertain. ERNET solution works only with internet connections. Only 32 schools were found to have feasibility to get internet as per the State commitments. • Consistent internet speed is necessary for remote virtual sessions. It is difficult to achieve this speed in internet at rural places. • Connectivity required for the solution is not under the scope of ERNET. And it is highly dependent on external internet service provider.
Student participation with analytics	• Assessment is the integral part of the solution with handy assessment tools for students. • All students participate proactively in the LIVE session by answering Multiple Choice Questions(MCQ) and giving feedback using assessment tools. • Big Data for remedial teaching.	• Students are just the passive viewers of the video stream. No participation within the session. No Assessment. No handy assessment tools provided to students. • Student learning progress cannot be measured.

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Component	TELE-EDUCATION ANALYTICS POWERED VIRTUAL CLASSROOMS	ERNET SOLUTION VIDEO CONFERENCING
Power backup	• Solar Powered UPS with 2 Hr backup	• UPS with 1 hr backup

iii. *No detailed reasoning has been provided for the project. No need analysis has been conducted before proposing the investment, especially with regards to how it may improve learning outcomes.*

Response:

In Assam, 1000 schools have been selected as 'Pratyahban', an example of excellence. About 457 schools would be funded by Asian Development Bank (ADB) and the rest of the schools by Assam Government. Pratyahban concept is accepted by ADB and will be the main lifeline of Assam and all other schools will follow their model in time. As a part of Assam Government funding this project has been initiated with MDoNER.

Need for a Virtual Classroom in schools

In order to quickly recover the learning-loss occurred during the pandemic, a virtual classroom solution is necessary during the pandemic. Also, when students return to schools in regular offline schooling format or when they undergo a hybrid of online and offline schooling format, schools need to be equipped with virtual classroom infrastructure connected to studios. This will ensure they have access to studio expert teaching and multimedia content resources for a bridge course and subject concepts.

In Assam, the wired broadband connections are few in the entire region and the most schools do not have high speed internet connections to conduct virtual classes. As a result, the absence or poor connectivity is unwittingly perpetuating existing disadvantages for establishing any form of technology aided interactive education. Content is already prepared in Assamese using the services of multiple experts and along with the expert studio based teaching and assessment solution it was confirmed to be the suitable digital mass education model in remote locations. Detailed Need Analysis is provided in the DPR.

iv. *Observation: In the proposed project, there is no mention about maintenance costs and management of the infrastructure installed. It is common to see such infrastructure often not working in schools and school teachers not being able to use it.*

Response:

The proposed project cost includes five years of warranty with maintenance of the infrastructure for five years.

At schools, only one VC will be established with simple to use IT infrastructure and Tele-Education app platform. This VC will be used in rotational basis by class 6 through 10/12. Nodal Teachers of the schools will be trained to make use of the infrastructure.

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v. *Observation: It might be useful to also identify opportunity costs of such investments. At present, lack of access to digital devices among public school students acts as a massive constraint to their learning during the pandemic. It would instead be useful to plan how to make these devices available to students in remote areas, under Digital Assam.*

Response:

Learning devices such as tablets cannot be provided to all children and it is not possible within the State budget. Tablets cannot give live teacher-child interactive experience, which is the need of the hour. Hence the proposed solution is superior compared to other alternatives such as ERNET solution as detailed in the note.

TELE-EDUCATION OPPORTUNITY		
During lockdown: Online Classes & TV Sessions	**Post-Covid: Studio Based Sessions in Virtual Classroom**	**Post-Covid: Hybrid Sessions by Class Teachers (during partial student attendance)**
Content Creation in Bodo, Bengali, English and Assamese by selected renowned teachers of the State	High quality content creation by central experts	Using the content created for flipped classroom for the entire state in the labs, apps, or on portals
Sessions from Studio in Assamese, Bodo, Bengali, English. Content Distribution via Mobile App, DD North East, Local Cable TV Network, Diksha Portal, Swayam, National Digital Library etc.	Studio based expert led teaching in foundational subjects in the schools	Sessions from 543 Pratyahban Schools to their students in batches. Students can attend the same session in Virtual Classroom (Batch 1) or at home through Tele-Education Learner App (Other batches).
Sessions from 543 Pratyahban Schools to their students. Students access live/recorded session on Tele-Education Learner App.	Bridge course, multiple intelligence short courses, motivational sessions, industry expert sessions, career guidance, competitive test awareness	
Attend LIVE/recorded sessions with performance analytics.	Attend LIVE classes with performance analytics.	Attend LIVE/recorded sessions with performance analytics.

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vi. *There are many free online portals of Government of India that provide access to high quality education in the country, such as SWAYAM, Diksha, National Digital Library of India, etc. to name a few. There may be little sense in reinventing the wheel by the state. To facilitate student participation, the concept of Flipped Classrooms may be encouraged in schools*

Response:

Diksha and other national digital libraries offer contents, whereas Tele-Education is a platform which will use localised contents and curated content specifically for Assam. The Tele-Education platform with contents are planned to be Assam Culture Specific and will include teaching in local languages. Thus the platform will be inclusive for all media schools.

The multimedia content developed in Assamese medium under Tele-Education has been uploaded in Diksha portal and is being utilised. As mentioned earlier, there is a need for the localized content also in Bodo, Bengali, English as well as in Assamese. Through the proposed project a large repository of content can be developed by involving Government Teachers in 543 Pratyahban schools. The existing portals can be linked to the Learning Management System under tele-Education for suggesting flipped classroom learning for students.

In summary, when virtual classroom learning, beyond-school online learning, and traditional classroom learning methods are integrated, these will be a supporting system for each other and will create a holistic education of the future. The proposed project creates such infrastructure at all levels to benefit maximum number of learners across the State.

Thus Samagra Shiksha, Government of Assam recommends establishing the Tele-Education solution for 543 Pratyahban Schools in the State at the earliest and looks forward to the approval of the solution.

Sd/-
Mission Director,
Samagra Siksha, Assam

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DETAILED PROJECT REPORT

TELE-EDUCATION PLATFORM
ANALYTICS POWERED VIRTUAL CLASSROOMS IN 543 PRATYABHAN SCHOOLS ACROSS ASSAM UNDER NESIDS SCHEME

Proposal Submitted to

Ministry of Development of North Eastern Region

Proposal Submitted by

Samagra Shiksha, Government of Assam

AUGUST 2021

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ANALYTICS POWERED VIRTUAL CLASSROOMS IN 543 PRATYABHAN SCHOOLS ACROSS ASSAM

1. Project Background

Samagra Shiksha, Government of Assam is pleased to submit a detailed project proposal to the Ministry of Development of North Eastern region (MDoNER) for extending Tele-Education platform infrastructure with Analytics Powered Virtual Classrooms across Assam. This project is proposed in **543 Pratyabhan Schools in rural Assam under North East Special Infrastructure Development Scheme (NESIDS).** Pratyabhan schools are Center of Excellence Schools. By establishing Tele-Education Platform in these model schools, high quality digital educational content can be created for different modes of e-Learning for the entire State during the pandemic in online only and hybrid classroom-online education modes.

EXISTING TELE-EDUCATION INFRASTRUCTURE AND HOW IT HAS BEEN HELPFUL DURING COVID 19 PANDEMIC:

In December 2018, a Tele-Education program was started in 250 rural schools of Assam. A central studio at Guwahati and 250 Virtual Classrooms were established. In this project, satellite connectivity is used to connect studio with virtual classrooms. The project has been directly benefiting over 1.35 lakh rural students in schools. Under this project, **multimedia content is developed in Assamese for the entire curriculum of class 6 to 10 in Mathematics, Science, and English subjects.** This remote mode of education has been a successful format for providing academic support to students.

Tele-Education also proved to be an essential service infrastructure during COVID 19 pandemic to continue educating many lakhs of students across the State. The Tele-Education central studio infrastructure, e-Content, application, and manpower were used to make remote education (LIVE and recorded) possible through an educational app, DD Northeast TV channel, and cable TV network. Several recorded sessions in Assamese medium were broadcast. Many of these sessions have been uploaded in Diksha Portal.

The Govt. of Assam wishes to expand Tele-Education infrastructure in the State as follows:

1. Setting up a new central multimedia studio: To be able to create high quality localised digital content in English medium and regional languages (Bodo, Bengali, & Hindi)
2. **Setting up 01 Analytics Powered Virtual Classroom with Tele-Education App Platform in 543 Pratyabhan Schools to connect to the studio and for conducting regular digital sessions for respective school students**
3. Manpower for the studio operations and project operations & management
4. Integration with existing central Tele-Education studio and applications

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NEED FOR THE VIRTUAL CLASSROOMS IN THE STATE AND THE PILOTS CONDUCTED

In Assam, the wired broadband connections are few in the entire region and the most schools do not have high speed internet connections. As a result, the absence or poor connectivity is unwittingly perpetuating existing disadvantages for establishing technology aided education.

The feasibility study of terrestrial internet based video conferencing solution proposed by ERNET was conducted in the State. It was found that only 32 schools including 2 DIETs had the feasibility to establish the solution. Subsequently, this video conferencing project was established in these schools. The required setup is ready in school and teacher training has been scheduled. Practically, stable high quality internet is not available in any other schools, so the solution cannot be scaled.

Successively, satellite connectivity was found to be a better alternative through local demonstrations and the Tele-Education project was established in 250 rural schools. This solution is highly scalable across the State.

A comparison between proposed Analytics Powered Virtual Classrooms which uses satellite connectivity and Video Conferencing Solution which uses terrestrial internet connectivity is provided in the table below:

Component	TELE-EDUCATION ANALYTICS POWERED VIRTUAL CLASSROOMS	ERNET SOLUTION (VIDEO CONFERENCING)
Pricing Model	• Project covers 543 schools with total cost 33.90 Cr. which is 6.24 lakhs per school with 05 years' warranty. • Turnkey solution with Connectivity, Hardware, software, and assessment. • E-content in Assamese is available.	• Project covers 32 schools including (2 DIETS) with total cost 3.46 Cr which is 10.81 lakhs per school with 05 years warranty. • Infrastructure Supply Only (Hardware, Software)
Connectivity	• Two-way VSAT connectivity is considered as part of the solution for interaction and monitoring at schools with required infrastructure and bandwidth. This overcomes feasibility issues. • The solution is a complete turnkey solution with required VSAT connectivity and internet over VSAT.	• The feasibility of 2Mbps broadband in rural areas is highly uncertain. ERNET solution works only with internet connections. Only 32 schools were found to have feasibility to get internet as per the State commitments. • Consistent internet speed is necessary for remote virtual sessions. It is difficult to achieve this speed in internet at rural places. • Connectivity required for the solution is not under the scope of ERNET. And it is highly dependent on external internet service provider.
Student participation with analytics	• Assessment is the integral part of the solution with handy assessment tools for students. • All students participate proactively in the LIVE session by answering Multiple Choice Questions(MCQ) and giving feedback using assessment tools. • Big Data for remedial teaching.	• Students are just the passive viewers of the video stream. No participation within the session. No Assessment. No handy assessment tools provided to students. • Student learning progress cannot be measured.
Power backup	• Solar Powered UPS with 2 Hr backup	• UPS with 1 hr backup

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It has proven through existing Tele-Education project that satellite connectivity ensures interactive reach even to the most remote regions and is a reliable connection with high uptime. In the proposed project, existing satellite connectivity will be used for connecting with the studio and district level educator facilities. Also, satellite connectivity will be used for making the required internet via VSAT available for interaction, reporting, and administrative activities. Hence, there will not be any additional costs for connectivity.

How the proposed project will be relevant after the Covid 19 Pandemic?

Due to the global covid19 pandemic, the education system had to make extreme adjustments to receive digital education. There has been a significant learning loss for all school going children, whereas children in rural areas have endured an added loss due to the lack of stable internet connectivity in mobile devices required for accessing daily lessons. In short, COVID 19 increased the digital divide between urban and rural areas.

In order to quickly recover this loss, a Tele-Education platform which uses low bandwidth for lesson transmission is necessary. Also, when students return to schools in regular offline schooling format or when they undergo a hybrid of online and offline schooling format, schools need to be equipped with virtual classroom infrastructure connected to studios. This will ensure they have access to studio expert teaching and multimedia content resources for a bridge course and subject concepts.

We believe that, when virtual classroom learning, beyond-school online learning, and traditional classroom learning methods are integrated, these will be a support system for each other and will create a holistic education of the future. The proposed project creates such infrastructure at all levels to benefit maximum number of learners across the State.

SUMMARY OF THE INFRASTRUCTURE AND SERVICES TO BE ESTABLISHED AND INTEGRATED UNDER THE PROPOSED PROJECT

End to end operations and management of the project under Samagra Shiksha, Govt. of Assam

Infrastructure:

1. A multimedia studio for remote education at Guwahati:

The new studio will be used for LIVE and interactive session delivery from the state level expert teachers. This will be linked to the existing studio at Guwahati for optimum utilization of both the studios in tandem. Current studio is in full utilization for conducting Assamese medium classes for class 6 to 10.

A new studio (s) is required for conducting parallel classes in English, Bodo, Bengali, and Hindi to class 1 to 10 on a daily basis.

The sessions will be LIVE telecast or recorded sessions will be streamed through Cable TV Network, Doordarshan, Swayam Prabha DTH channels for wider reach to homes.

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2. Virtual Classrooms in 543 remote rural Pratyabhan schools:

Type of schools	No. of schools	No. of Virtual Classrooms per school	No. of Direct Beneficiary students	No. of Indirect beneficiary Students
Pratyabhan Schools	543	1	2,00,000+	Students of Entire State

Each Virtual Classrooms will have following ICT components:

1) **HD Short Throw Projector with Projection Screen**
2) **Satellite two-way communication equipment, Wi-Fi Modem,**
3) **Laptop with Application software with VC Bridge License**
4) **Student Assessment Kits (50 Handheld devices + RF receiver)**
5) **HD Camera and Microphone for interaction**
6) **4.1 Speakers**
7) **Solar Electric Power Backup System, Solar Panel with Stand**
8) **Podium with locking for safekeeping.**

Software in APVC:

1. **Learning Management System:** A Learning Management System for schools as a repository for accessing recorded virtual classroom sessions in respective medium of education and additional learning material. National portals such as Diksha, SWAYAM, National Digital Library will be linked to this LMS for aiding the students in self-learning and flipped classroom method learning.

2. **Tele-Education App Platform for Teachers:** School teachers will be able to deliver LIVE classes from the schools in the virtual classrooms.

   This platform acts as a content creation platform in regional languages and will be a parallel channel to studios. The sessions delivered will be curated by an academic committee and best sessions will be curated to upload on Diksha platform and to stream on cable TV network.

3. **Mobile app for students:** Students will be mapped in to Tele-Education study circles as per their grade level enrolments. Thus even if the schools reopen in batches, students can either attend the same session in the classroom or in the app (LIVE or recorded). Attendance and MCQ performance analytics will be available.

3. Connectivity

For LIVE session transmission from the studio and interactions originating from the VC, satellite connectivity will be used. In these schools, internet through VSAT will be made available for VC reporting and other school administrative works. The required satellite connectivity is already available with the State. Hence no additional costs incurred.

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4. Integrating Analytics Applications and Monitoring Dashboards

Following central applications available on the Tele-Education Platform will be integrated:

- Student analytics application will visualize the performance data captured through student assessment tools in classrooms in various formats at multiple levels State/District/Tehsil/Block/ School/Classroom/Student levels. These data analytics will be used in planning remedial teaching.
- Online project monitoring application for tracking project operations at State/ District/Tehsil/Block/ School levels on an interactive map.

5. Manpower for Project Operations

Existing central and field level manpower will be fully utilized for the extension of the platform.

Additional manpower required:

- Studio Manpower (2 Nos)
- Project Manager
- Operations Manpower

2. NEED FOR THE VIRTUAL CLASSROOM SOLUTION IN ASSAM AND BENEFITS

Paragraphs below detail **main constraints**, to provide high quality technology-enabled education in Assam, followed by the **solutions** for the same through the proposed project:

Problem 1: Lack of access to highly competent and qualified teachers and learning resources

Challenges: In substantial number of schools, pupil to teacher ratio is high. This overloads available teachers in the administrative works. Most teachers are not computer literate or are unable to create digital learning resources by themselves.

Solution:

- Studio based expert-led teaching: Studio will be established at Guwahati, where expert teachers are available.
- Expert led LIVE and interactive sessions will be conducted from the studios.
- Solution integrates curriculum mapped animations, prepared based on localized real life examples to make abstract concepts easy to understand for students of all learning levels.
- Remedial Learning, Advanced Learning, Value Based Education, Good Citizenship Sessions, Regular Teacher Training, Leadership Training to Headmasters is possible on the same platform.

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Problem 2: Connectivity Bottleneck
Challenges: The region is marked by inaccessibility, isolation, and largely hilly and difficult terrains. This is an obstacle to make high-speed terrestrial internet connectivity available in the region.

Solution:

- It is proposed to transmit LIVE sessions through **satellite technology (VSAT)**, which overcomes geographical barriers in Assam. Through VSAT, any number of schools can be connected concurrently. Also for the interaction, reporting, administrative tasks at schools, internet over VSAT connectivity will be made available.

Problem 3: Lack of monitoring and lack of student performance data
Challenges: In order to create remedial teaching plans or to address any geography specific issue, availability of continuously monitored data is necessary. Indicators such as every student's learning outcome are unavailable at district and school levels.
Solution:

- Assessment data will be captured through methods used in teaching and e-Content integrated with multiple choice question banks. It helps to generate student performance analytics for each student during every LIVE session using assessment tools. It is a non-intrusive way to capture ongoing assessment and feedback from students.
- Other than collecting performance assessment and feedback from students, assessment tools can also be used to collect feedback from principals, teachers, other school staff on developments in school infrastructure and other data-points influencing institutional indicators in respective district.
- Besides, Virtual Classrooms is a GIS based solution so LIVE Program dashboard shows the connectivity, power, studio sessions, classroom status, training aspects of the program at the district and state levels.
- The learning data and feedback data will be used for introducing Remedial Teaching Plans.

Problem 4: Power irregularity
Challenges: Power irregularity is a major constraint for technology-enabled education in many schools in the state.
Solution:

- Solution can run on **solar powered backup electricity**. Complete solar solution with solar panels will be provided for the purpose of running virtual sessions.

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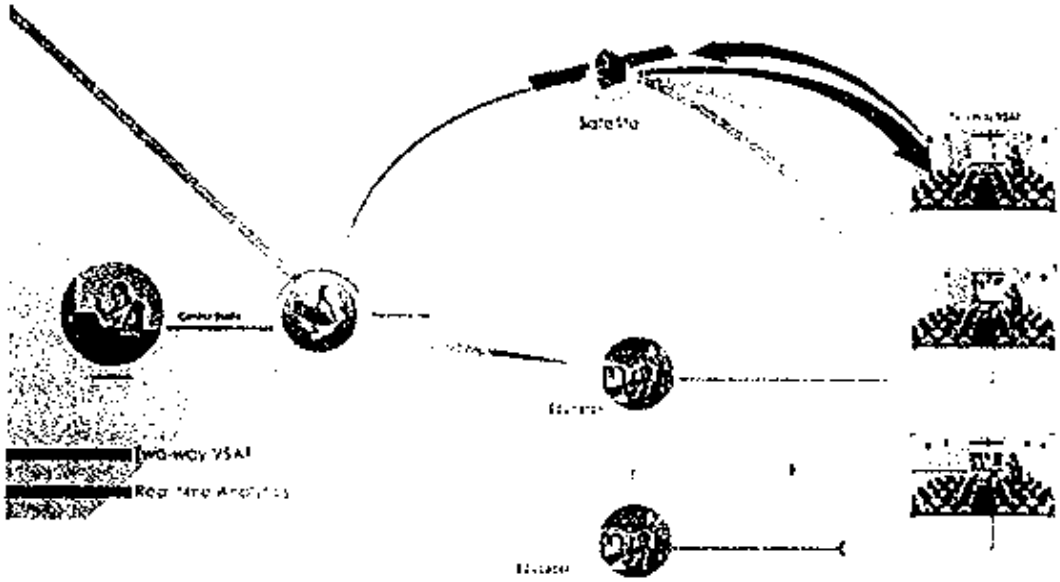
Envisaged Benefits of Analytics Powered Virtual Classrooms

	Benefits of Virtual Classrooms
Teaching method, Teaching Impact	• Centrally managed content standardization across schools: Studio based LIVE sessions by experts. • All students receive uniform educational inputs. • Only one classroom per school need to be equipped with virtual classroom equipment. • Simple infra, limited training needs. • Beyond the classroom learning through Tele-Education App Platform.
Interactivity, Asking Questions, and Doubt Clarification	• In every session, after teaching each sub-topic, studio teachers ask multiple choice questions to all students. Students answer to these questions using handy assessment tools. This increases participation in classrooms and provides useful performance data at classroom/school/block/district/division/state levels. • Students can also get their doubts clarified during the dedicated LIVE Q&A time-slot with the studio teacher or educators through video communication. An educator facility is already available in Assam under existing Tele-Education facility. The same can be utilized for Pratyabhan Schools.
Real-Time Monitoring	• Real-Time Centralized Monitoring of connectivity, equipment, teaching, learning, and other resources. • Dashboards for viewing LIVE status of the state with geo-mapping.
Multimedia Content	• Curriculum mapped central multimedia content repository is already created for class 6 to 10 in Assamese by subject experts, education strategists, digital e-learning instructional designers, and animators - as a teaching aid during LIVE delivery. The Tele-Education App Platform ensures content will be created in Bodo, Bengali, English, and Hindi Languages. • The content is developed based on child-centric principles suitable to rural learners of Assam (localization). This enhances session quality and experts can personalize their teaching with the content flow. • Real-life examples are used in animations to make subject concepts easy to understand. • e-Content is integrated with interactive elements (Multiple Choice Questions, Notes, tips, unlearning predominantly wrong notions) for keeping students engaged. • The multimedia content thus prepared can be modified at any time.
Learning Analysis & evaluation through data analytics	• Student engagement in classroom will be measured through student assessment tools. • The system tracks the score of correct/wrong answers, speed of answering, in connection with difficulty level of questions—real-time progress will be tracked in dashboard. • Every classroom teacher will be provided access to student reports. • Big Data will be made available for remedial teaching at district level and state-level i.e. for changes in educational methodologies.

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3. Technology

Lesson transmission and interaction over satellite bandwidth ensures high-quality of sessions at the remote schools.



Satellite Connectivity (VSAT)

Satellite technology is independent of geography and thus is suitable even at the extreme geographic conditions such as the remote and hilly terrains. It is the most reliable and accurate connectivity available worldwide being used for critical communication needs.

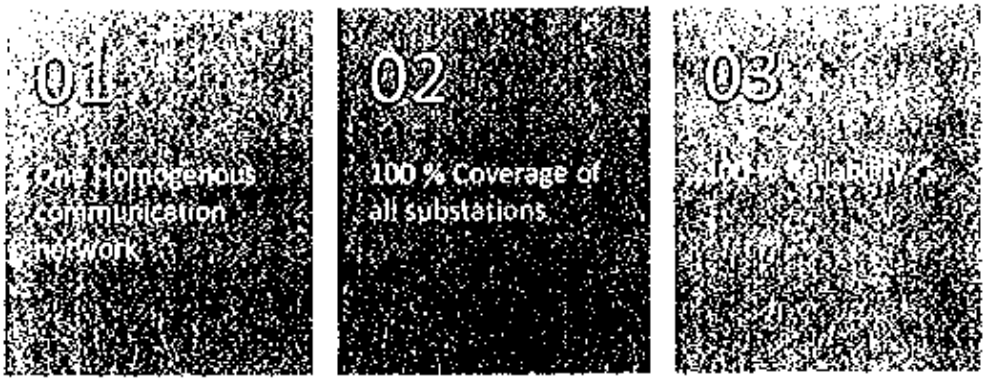
- Satellite signals are present everywhere - location independent.
- No need for High-end servers and High bandwidth.
- Economical. No variation in costs with increased number of schools/receiving locations.
- Steady and dependable connectivity; for large scale LIVE streaming classroom learning reception and interactions.

Satellite connectivity provides the best uptime (minimum 99.5%), so it is the most preferred mode of communication in projects involving transmission to a large number of remote regions – where other modes of connectivity are absent or irregular. Further, it is essential that the quality education services are extended through various modes and agencies are monitored and updates are obtained regularly for decision making for course correction or for making additional resources available, if required. Such numerous management decisions depend on real-time and reliable data obtained from the field forces. Thus, we propose to enable the Virtual Classroom Solution Network with satellite technology.

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Key advantages of satellite technology for virtual classroom solution:



- **One Homogenous Network:** Since VSAT can be deployed in all locations and faster, the project roll out will be cost efficient. With VSAT, it is easy to achieve one single Homogeneous network.
- **100 % Feasibility:** - VSAT solution is feasible for all the areas - remote and hilly terrains etc, this would ensure 100 % connectivity to all schools, irrespective of the geography where they are located.
- **>99.5 % network reliability:** - VSAT services and links are highly reliable as there are no intermittent point of failures. Hence we can easily achieve over 99.5% uptime.
- **QoS committed:** -VSAT services provide committed and measurable Quality of Service (QoS). Hence there is a surety of getting data from all sites without fail.
- **Economical:** - Highly economical than LL/MPLS.
- **Ease of deployment:** - Since VSAT does not require grid downtime or Right of the Way (RoW) clearance, etc... the network can be implemented in timely manner.
- **Easy Manageability:** - VSAT bandwidth and site configurations are centrally manageable as per the demand of each site.
- **Least affected by disaster:** - VSAT network is not affected by disaster / terrestrial disturbances easily and only a particular site gets affected if any disaster / natural calamities occur.
- **Easy to expand:** - Expansion of network is easy by simply adding remote terminals. Services can be expanded to other segments.
- **Highly secured:** - Highly secured network with IPV4 and IPV6 end-to-end support.

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4. DESCRIPTION OF PROJECT DELIVERABLES

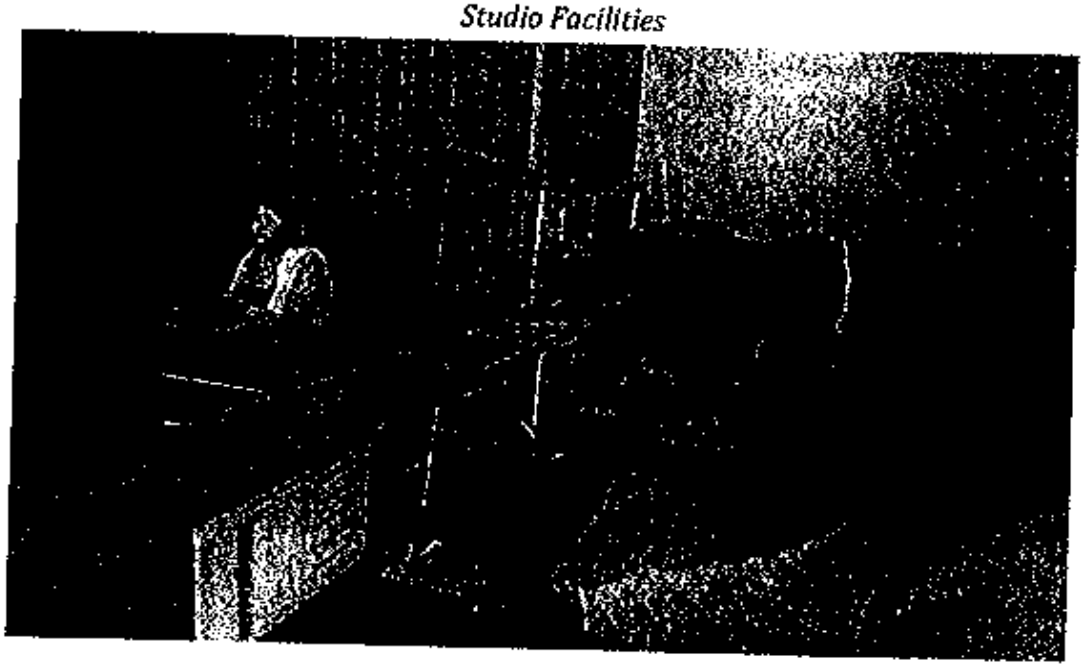
Tele-Education is intended to be established and managed in end-to-end manner. The services will cover supply, installation, testing, commissioning, integration with the existing network, and operations & management activities for five years.

INFRASTRUCTURE

a) Central Broadcasting studio to deliver expert-led education (01 in Guwahati)

A high-definition multimedia studio will be established at Guwahati as expert availability is concentrated there. The studio will have interactive teaching facility, recording facility, and Tele-Education applications.

Studio Facilities



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b) Setting up Analytics Powered Virtual classrooms

Virtual Classroom Setup

One of the largest classrooms in the school will be selected to be the Virtual Classroom to receive LIVE & interactive sessions from the studio. Following equipment will be installed with five years' warranty:

1) **HD Short Throw Projector with Projection Screen**
2) **Satellite two-way communication equipment, Wi-Fi Modem,**
3) **Laptop with Application software - VC Bridge License,**
4) **Student Assessment Kits (50 Handheld devices + RF receiver)**
5) **HD Camera and Microphone for interaction**
6) **4.1 Speakers**
7) **Solar Electric Power Backup System, Solar Panel with Stand**
8) **Podium with locking for safekeeping.**

At schools, there will be a facility to access recorded content after the LIVE delivery. All the LIVE streamed content will be recorded and the schools will be able to access the recorded content - if they missed any LIVE sessions or need it for revision. One teacher/ technical staff per school will be trained on usage of Virtual Classrooms and Tele-Education App Platform.

LIVE ROOM CONTROL ROOM

Students learning in Virtual Classrooms from studio teachers



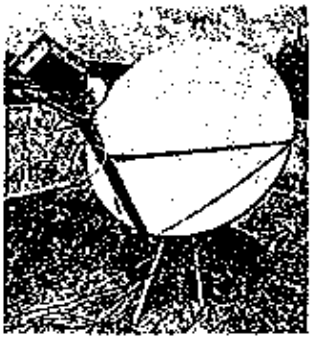


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VSAT Antenna & Solar Panel









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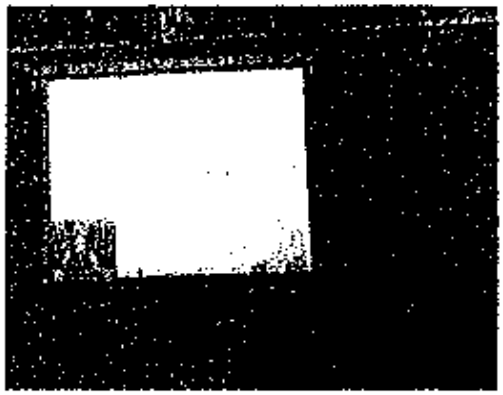
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Student Assessment Kits for Assessment:

Existing Student Assessment System will be integrated at virtual classrooms to conduct objective tests from the studio during every LIVE session. This provides real-time feedback and regular data for analysis. On an average 50 handheld assessment tools and a receiver per Virtual Classroom will be provided for assessing student engagement and performance.



Multi-color assessment tools







How it works?

- Studio expert poses a multiple-choice question/ true or false questions, etc.
- Each student submits an answer to the question using assessment tool.
- Assessment tools send LIVE response data to a Receiver connected to the Server.
- Server Software collects student answers and produces statistical data showing response.
- It is non-intrusive and helps students to participate in the session being conducted - by choosing the answer or raising hand to signal an emerging doubt.
- The assessment tools will be mapped to student roll numbers throughout the academic year, and this identification number shall be registered to the student in a computer-based database. The data shall be captured in the real-time, session-wise, and shall be linked to a specific student. The school shall have access to the individual record of each student's answer in the Teacher Tools section of OPMS application which helps to monitor class progress and understanding.

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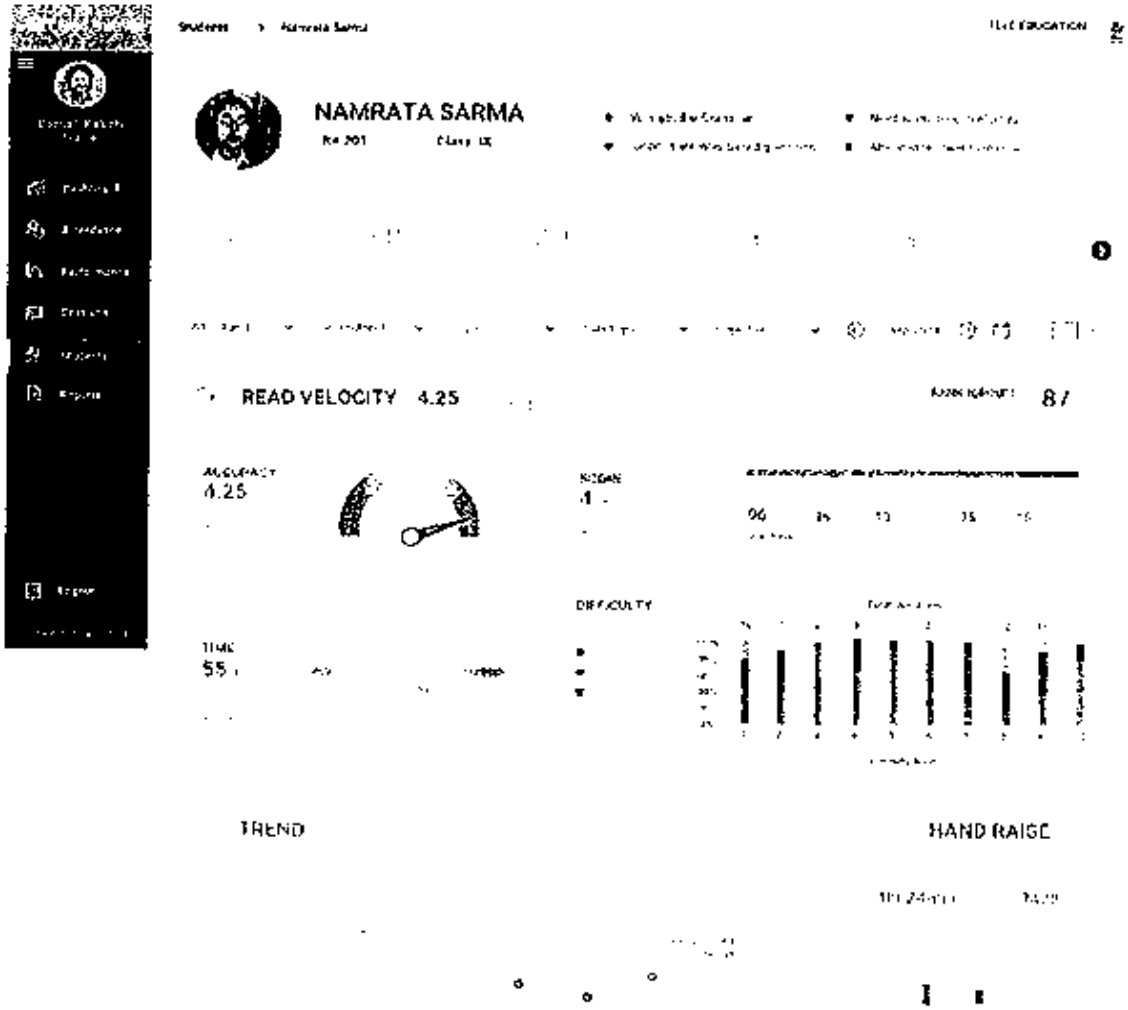
Real-time Analytics, Progress reports, Student Evaluation, and Assessment

Integrated student analytics application provides real-time feedback and regular performance data for analysis.

Student analytics application overview:

- The application prepares data analysis at student, class, district, State levels in the dashboard.
- Reports will enable schools to bring changes in instructional method and reports will help planning future remedial teaching.
- Student Reports generate scores for each question attempted, also the speed to answer and the time taken to answer considering the difficulty level of the question asked.

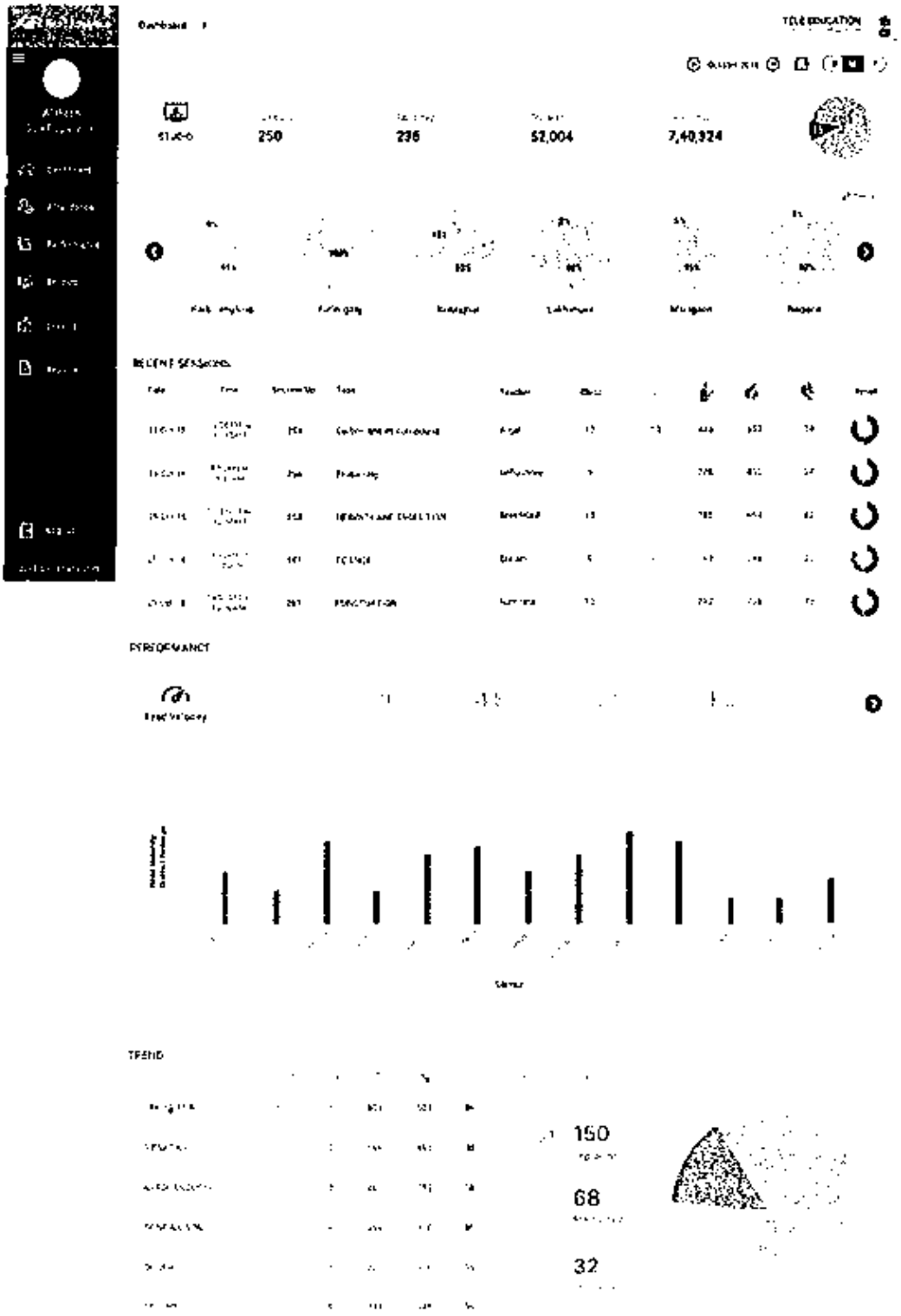
Analytics Dashboard – Student Level Report



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Analytics Dashboard –District Report



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c) Tele-Education App Platform in Analytics Powered Virtual Classrooms

Tele-Education app platform shall enable schools to organize educational content delivery/consumption by distributing the content and by conducting classes.

1) School teachers can use this app platform to conduct online classes from the virtual classroom or from home.
   a. Teachers can upload their own ppts, multiple choice questions, and other multimedia during the class. Teacher video, audio, e-content, and written strokes will be visible to students.
   b. Quick to go LIVE: A teacher can start a LIVE CLASS in just 30 Seconds!
   c. In-Class LIVE MCQ questions with result: Teacher can ask questions and know class performance in the real-time. During sessions, teachers can ask assessment questions in single/multiple choice question formats and can also take feedback. Students can answer S/MCQs and provide feedback (thumbs up or down). The responses will be captured in the real-time and results will be shown in graphs.
   d. These multimedia classes can be attended by students in the same virtual classroom or in the Learner app. These sessions will be recorded and uploaded automatically. Students who missed to attend the school or the LIVE class can watch the recorded session. The application provides analytics of student attendance and performance for every session (LIVE & recorded).
   e. The Educator application can be used to conduct interactive LIVE sessions at district or state level to conduct classes in Bodo, Bengali, Hindi, or English to a larger group of learners.
   f. The platform can be used to send state/district level & other regional notifications and circulars. Messages to any study circle can be sent with one click.

<u>Advantages for students:</u>

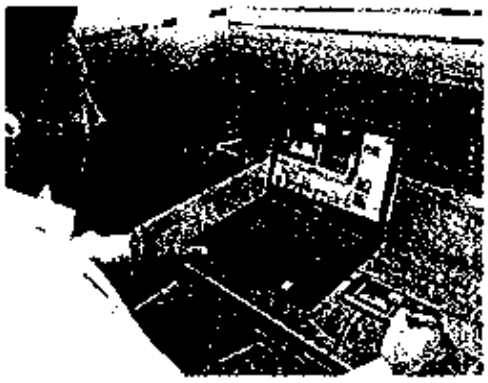
   g. When not attending the school, students can attend the LIVE class from their home.
   h. The learner app uses very low bandwidth. It works even at a very low bandwidth of 128 kbps to 512 kbps speed.
   i. The recorded sessions can be downloaded at very low size (~50MB per an hour long session). Hence, even the low-end smartphones will not get overloaded.

Note: In comparison to this app platform, alternative platforms such as ZOOM, Google Meet, Microsoft Teams etc require at least 2 MBPS-8MBPS data speed for watching a LIVE class which is almost impossible to get in rural areas and even in urban areas to get such high speed in mobile data is extremely difficult. Thus, it is very suitable for even the rural users.

Creating Wi-fi Hotspots at Village Panchayat Office, Schools: Students who do not have mobile data access can use these wi-fi hotspots to download recorded lessons and other learning materials to access these offline.

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Teacher Student

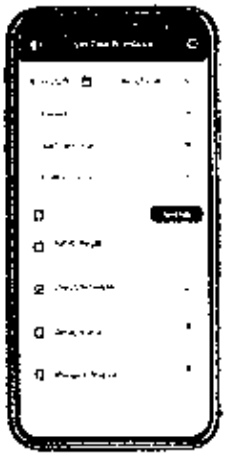




LIVE Class Attendance

Videos





Important Note:

a) The platform is robust and uses cloud based technologies. Hence these are scalable to any number of Students.
b) Both synchronous (LIVE sessions) and asynchronous (recorded sessions & uploaded resources) teaching-learning enabled.
c) Parallel sessions (as many number of teachers will be taking classes simultaneously) are possible. Also, all students can connect to a single expert teacher by mapping all Students into higher level study circle.
d) During the session, teacher has the control of camera and mic of every Student. They can enable and disable these controls anytime. Hence, the session itself will be noise-less and free of any chaos and will be simpler to manage.

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d) Manpower for the project:

1. Manpower for project management: Project Manager
2. Studio Manpower — 2 Nos (One Studio Engineer + One Cameraman)
3. Field Operations Manpower

Profect Management Manpower

Designation	Description
Project Manager	• The Project Manager heads the entire Project and is responsible for successfully implementing the Project according to the Project Plan. Manages the risk, quality, and progress of the project to organisational standards, and ensures the project is completed on time. • Project Manager is the execution head and the single point of contact for the entire project. • Project Manager is required to regularly communicate with key stakeholders to ensure project outcomes are met.

Centralized Manpower Roles

Designation	Description
Studio Engineer	• Responsible for the Operation of the Studio by supervising and directing other studio staff. • Coordinate with Project Manager on program schedule. • Make sure that programmes are broadcast on time and to the highest level of quality. • Servicing and testing equipment. • Minimising loss of service in case any equipment fails by quickly identifying and implementing alternative methods of service provision. • Interpreting and implementing instructions and requests from Program manager on need basis for additional sessions.
Camera Man	• Assemble, prepare, and set up equipment prior to LIVE Delivery of sessions, which may include tripods, monitors, lighting, cables and leads and headphones. • Practise the camera moves required for any pre-arranged shots for special sessions. • Find solutions to technical or other practical problems. • Repair and maintain equipment.

Field Level Manpower

Designation	Description
Nodal Officer	• Nodal Officer will be on the field and handles any incidents and service requests to help make the Virtual Education system meet SLA availability requirements. • Field Nodal Officer shall also train school teachers to use the Virtual Classroom setup.

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FOLLOWING EXISTING RESOURCES & INFRASTRUCTURE IN THE STATE WILL BE INTEGRATED IN THE PROPOSED PROJECT

e) E-Content - Math, Science, English for Class 6 -10, designed for LIVE Delivery on VC Platform (Assamese) along with Question Bank for Analytics and Assessment

Why traditional chalk-n-talk lessons without digital content fall short to help students retain the concepts learnt?

In the traditional chalk and talk teaching, tools used by a class teacher are session notes, blackboard writing, showing some physical models, conducting some laboratory experiments and so on. The impact of this approach is dependent on every individual teacher.

Some of the shortcomings in traditional mode only classrooms:

- Teachers are dependent on chalk and talk, mostly. Consumes lot of time in writing and drawing on the blackboard. Concepts taught with just text result in low level retention.
- Most of the theoretical concepts taught in classroom sound alien to students. It is not easy to convey how those take place in real-life scenarios without visual aids.
- Simulating some mathematical models is difficult in classrooms. Also some concepts need more visualization than others. Eg: Digestive System, Solar System.
- There may be a lack of facilities like lab equipment for conducting certain experiments.
- At a time, teacher can ask a question to a single student - hence learning of other students cannot be gauged on the same question in the real-time.
- Overall, it is difficult to maintain the ongoing attention of students.
- At the end of the class, teacher will not be sure on whether what s/he taught would be retained by the students.

How e-content with animations designed depicting real-life examples helps in teaching-learning in the virtual classroom:

Teaching:

- Teachers assigned for studio teaching get readily available curriculum-mapped teaching aid, hence they need not spend many hours to create content
- Get access to standardized content created by multiple academic experts including school teachers worked in Government Schools, Private schools, and Tribal Schools
- Content embeds highly motivational assessment system through MCQ Questions at regular intervals, feedback surveys, pre-test, post-test questions

Learning:

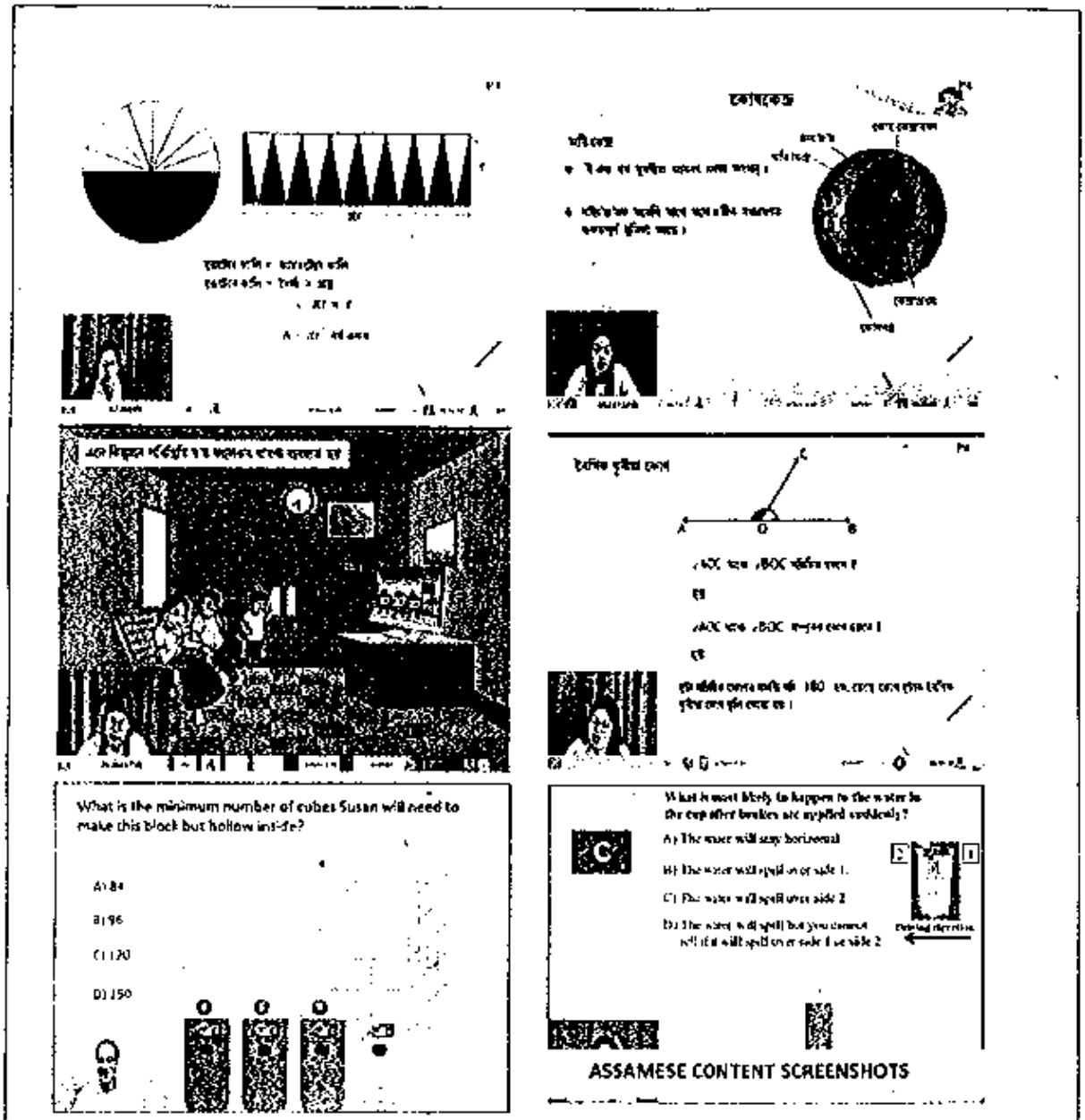
- Students understand that what they learn is not alien to them, but is related to their lives.
- Students see, feel, think, and do while learning rather than just getting ready for examinations.
- Students develop reasoning powers, critical thinking, imaginative, and creative skills.

Classroom:

- Class performance trackable through lessons embedded with interactive elements

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USEFULNESS OF ANIMATIONS BASED E-CONTENT FOR STUDIO BASED VIRTUAL TEACHING

Sl No	Parameters	Feature Availability	Description
1	Is the content curriculum mapped to the syllabus? Is the content suitable for concept building?	Yes	E-content is mapped to curriculum developed for concept building. Appropriate number of sessions are dedicated to concept building and on hard topics which are fundamental to subject understanding. E-content is prepared to make the underlying concepts clear by ample comparable real-life examples and allegories. This enkindles curiosity in children's minds. This helps in understanding, in recalling, and in retention of concepts. An inductive method of teaching is followed - where students are led from specific examples to general reasoning. Currently, e-content is available in Assamese. Content will be developed in English, Hindi, Bodo, and Bengali.
2	Is it non-voiced based to function as teaching aid?	Yes	It has step-by-step visual representation of concepts, to which the teacher in the studio gives voice. This allows for personalization of presentation. Also, future modification of the contents is possible. The recording of the content delivery is available in studio and classroom. This delivered content will have voice, video and animation everything in one file.
3	Is it suitable for a heterogeneous group of students?	Yes	Students belong to different intellectual capacities, attention spans, different learning abilities and subject interests. The content is created considering these factors and has engaging elements to retain attention of a heterogeneous group.
4	Is the content error free? Does it follow a process?	Yes	The content is designed by multiple experts. A multiple step development and intensive review stages are employed to make sure that animations and teacher guiding notes help in error-free content. The pre-defined, step by step format assures ease of session delivery, standardized delivery, and allows for creative personalization from assigned delivery expert based on their subject knowledge and experience.

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5	Whether multiple teaching approaches are used to teach concepts?	Yes	Every session has visually rich multimedia content in different formats (animations (2D/3D), images) and a variety of approaches are embedded (tips, short-cuts, multiple choice questions, exercises, puzzles, notes, etc) to help students interact and hold their attention for a longer duration.
6	Whether students can interact with the content?	Yes	The content makes teaching conversational. It involves students, asks questions and prompts their answers continuously. Content for each session has multiple choice questions after every concept is explained. Each lesson has integrated questions at intervals. Students answer using student evaluation tools. This student input generates valuable analytics for future improvements in teaching methods from studio as well as in classrooms.
7	Whether the content is enabled with micro assessment and student learning analysis?	Yes	Learning analysis of individual students is possible through this content. At regular intervals/nodes, teacher asks a multiple choice question. Students can answer these using a handy student assessment tools. In every classroom, real-time analytics gets projected. Every student's responses get recorded. These reports will be useful in identifying hard spots and conducting remedial teaching. Remedial sessions will be conducted based on this data.
8	Does it promote all-round Development?	Yes	Apart from subject knowledge, moral education and moral imagination factors are embedded in the content.
9	Is the content low-sized?	Yes	Animations are developed in vector format, which are low-sized. Quality of the animations even while projected on large screens/television remains unchanged and does not pixelate. Storage space for the output broadcast file is low. The file size is almost 1/5th of the regular video content files available in the market.
10	Is recorded video of the session available?	Yes	LIVE content when recorded takes the form of video with teacher audio & video, animations, and teacher notes - integrated into a single synchronized video file. This file will be available at studio also at the classroom after delivery of session.
11	Whether master content can be localized?	Yes	Scripts can be translated into local language/dialect. Characters are developed in vector animations, so can be modified for cultural and geographical appropriation.
12	Can the content be used on multiple platform?	Yes	E-Content can be delivered on Virtual Classroom platform (via Studio sessions), in physical classrooms by teachers through Tele-Education Platform app to project on the screen and LIVE delivery to school students, and once recorded these can be used for self-learning.

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13	**Multi-level verified Content Development Process**	Yes	**Multiple subject matter experts and content strategists including text book authors, academic industry specialists, regular school teachers from various geographies (tribal/rural/urban) develop content rooted on appropriate pedagogy. Many creative view points and knowledge get imbued in the ideation, script development, animation development, and content review stages.** **It follows a carefully planned process. This eliminates errors and ensures effective management of teacher and student time also other resources.**
14	**Expected impact on the performance**	Yes	**Content is designed to improve learning levels of students by improving their subject understanding, aptitude, and interest to pursue more knowledge.**
15	**Other features – Clear outline: introduction and summarization**	Yes	**Summarizing the concept taught in the whole session, with intro outline and outro summary**

f) Online Project Monitoring System Features:

A Project Monitoring Dashboard with access at school/district/division/state levels and other apps to manage all the processes and people involved in the program is available. The OPMS system provides interactive map of state/each district showing where the Virtual Classrooms are running. The school locations shall be indicated by markers by using latitude and longitude of the school on the map (GIS mapping).

- **Studio and Class Run Status**: When class is running, system automatically updates the status in real-time and this data gets available online for viewing. If the status is not available, then status of class not run will be shown for that Classroom.
- **Dashboard-Summary**: A summarized class run status report of any given day will be available in the form of a Dashboard. This report shall be detailed and will include the reason for why class is not run (in such cases, if any).

Some of the important data points on the dashboard are as follows:

- Information regarding subject wise delivery of LIVE classes from the Studio.
- Real-time information about the number of VCs connected or not.
- Total number of students benefitted class wise.
- No. of queries raised, status of queries.
- Various types of reports school/ block wise/ Tehsil / District / State level

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Integrated Complaint Management: Complaint Management System for all associated hardware, Software, and services will be linked to OPMS. The system shall make a provision to manage complaints from Virtual Classrooms and complaints shall be tracked from initiation to closure using the system. The complaints shall be updated and looked into in the real-time for quick resolution of issues. Intuitive interfaces are provided for different user-roles for easy access and management.

Integrated MIS - Asset Management system: To simplify tracking multiple locations, conditions, and maintenance requirements for assets of the project, we will provide a comprehensive Asset Management System linked to the OPMS. It manages the status of hardware installation, performance, and maintenance.

5. Implementation schedule

Sl.No	Event	Timeline
1	Approval of Proposal by MDoNER	T_1
2	Preparation of Tender Document	T_1 + 15 Days
3	Vendor Finalization after tendering (T_3)	T_2 + 45 Days
4	Preparation & Submission of Training Manuals and plan (T_4)	T_3 + 15 Days
5	Supply of Hardware & Software (T_5)	T_4 + 90 Days
6	Installation, Commissioning, Integration with existing Infrastructure (T_6)	T_5 + 60 Days
7	Testing and LIVE implementation (T_7)	T_6 + 15 Days

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6. Commercial Proposal

Analytics Powered Virtual Classroom Solution for 543 Schools					
Sl.No	Component	Description	Qty	Price	Value
1	Infrastructure at schools	Includes HD Short throw Projector, laptop, Interactive application, Satellite Communication system, 4.1 Speaker, Student Evaluation Kit with 50 Transmission Devices per school and receiver , Full HD camera, Microphone, Podium, UPS with Solar Panel , Wi-Fi router and accessories. (Five Years warranty)	543	6,09,250	33,08,22,750
2	Broadcasting Studio	HD Camera Setup with HD Switcher, Audio System, Microphones, Talkback, Professional Display, LED Lighting, Sound Proofing, Acoustics, Air Conditioning and Recording facility (Five Years warranty)	1	61,78,000	61,78,000
3	Operations per annum	Manpower and Project Operations & Management	1 Lot	20,00,000	20,00,000
				Grand total	33,90,00,750

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Annexure A

31st meeting of IMC/NESIDS Committee scheduled for 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Arunachal Pradesh**

Name of Project: Construction of Town Double Lane Road at Pokrlang SDO Hq Langrh and Phassang Circle Hq. and adjoining Villages under NESIDS.

Project Description/Summary (not exceeding 200 words): The objective of this road project is to provide all weather connectivity to Tourist Circuit NO.5 under Kurung Kumey district and address road connectivity shortfall in the region. It has been proposed by the State Government that once this project will be completed it will benefit 1400 population of the district and also help in horticultural development of the area.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2000.00 lakh
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Connectivity
1.4	**Project Linkages with Promotion of Tourism (not exceeding 100 words):** The project is expected to harness the tourism potential of the beautiful locations of Kurung Kumey district like pokring SDO Hq., Langrh, Phassang & Nyobia Circle Hq.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Ministry. Non-duplicity certificate has been submitted by State Government.
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities**	The post completion repair and maintenance of the road shall be done by the PWD under 3054 R&B Maintenance Head
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	**Cost (Rs.)**
1	Site Development (3360 cum)	466368
2	Formation Cutting (Double Lane) (3.27 km)	50345430.12
3	Formation Cutting (Single Lane) (9.52 km)	55950953.52
4	Preparation of Sub-grade (13.73 km)	16392205.81
5	WBM I (7.73 km)	17701908.71
6	WBM II (2.46 km)	4163749.26

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7	WBM III (2.46 km)		4225912.796
8	Black Topping (2.46 km)		8367001.20
9	CC Drain (1.6 km)		2586564.80
10	Kutch Drain (12.93 km)		2721118.50
11	R/Wall & B/Wall (738 mtr)		16236000.00
12	CD works: RCC slab culverts (18)		25200000.00
	Total		**195990211.52**
	1% Contingencies		1959902.12
	1% for Cess		1959902.12
	Grand Total		199910015.76
	Say Rs.2000.00 lakh		
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	**Nil**	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	**Nil**	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**	01.10.2021	
1.9	**Original**	Yes	
1.10	**Revised (if any)**	**Nil**	
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	Non-duplicity certificate has been submitted by SG	
3	**Normative allocation of SG and related details**	Rs.156.72 crore	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (If any)**
i.	IFD, MDoNER	06.10.2021	Comments awaited
ii.	Technical Wing, MDoNER	06.10.2021	06.10.2021
iii.	NITI Aayog	06.10.2021	Comments awaited
iv.	Ministry of Housing & Urban Affairs	06.10.2021	12.10.2021
v.	Department of Rural Development	06.10.2021	Comments awaited
vi.	Ministry of Road Transport and Highways	06.10.2021	27.10.2021
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	
	(b) Abstract of cost/Broad break up of costs	Yes	
	(c) Approval of CS	The Priority List of projects for NESIDS 2021-22 have been received from Planning Department, Government of Arunachal Pradesh	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)** **Technical Wing & MoRTH:** Technical observations on the specification of the project proposal submitted by State Government. Detailed comments are annexed.		
7	**Important observations/comments of Prog. Division**		

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	Keeping in view that the proposed project is to provide all weather connectivity to Tourist Circuit under Kurung Kumey district and address road connectivity shortfall in the region and the project is covered under NESIDS guidelines, Programme Division recommends the project proposal for placing before IMC/NESIDS Committee for consideration for selection under NESIDS.		
			(Dated Signature & Name of
			Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of the line Ministry/IFD/Technical Wing, MDoNER	Comments in brief	Response of SG/proposal submitting agency to the comments	Response of programme Division
1	2	3	4	5
i.	IFD, MDoNER			
ii.	Technical Wing, MDoNER	(a) No specifications i.e. thickness of different layers of road pavement have been mentioned (b) The MSA & CBR value is not mentioned © The provision of layes of WBM-I, WBM-II and WBM-III in road pavements have been taken but as per IRC code, GSB & WMM has to be provided (d) The rcc culvert widths have not beed deducted in the lenght of the road while preparation of estimate (e) The provision @1.00% on account of contingency has been taken.	Response of SG awaited.	SG may clarify the same in
iii.	NITI Aayog			
iv.	Ministry of Housing & Urban Affairs	HFA Mission Directorate is implementing Pradhan Mantir Awas Yojana-Urban (PMAY-U) for providing all weather pucca houses to eligible households by year 2022 and the said project does not fall under the scope of PMAY-U. The project proposal could not be considered under NERUDP	N/A	N/A
v.	Department of Rural Development			
vi.	Ministry of Road Transport and Highways	Technical observations on the specification of the project proposal. Detailed comments are annexed.	Response of SG awaited.	SG may clarify the same in the meeting and accordingly consider the observations of Technical Wing at DPR preparation stage.

(Dated Signature & Name of Under Secretary concerned)

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No. NESIDS-11014(11)/1/2021-O/o US (NLCPR)
Government of India
Ministry of Development of North Eastern Region
****

East Block-10,
Level-4, R.K. Puram
New Delhi - 110066
Dated 06.10.2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Arunachal Pradesh under NESIDS for F.Y. 2021-22.

The undersigned is directed to refer to subject mentioned above and to request to kindly examine and intimate whether the proposed project proposal *viz.* "**C/o Town double lane road at Pokriang SDO Hq. Langrh and Phassang circle Hq. and adjoining villages' in Arunachal Pradesh at an estimated cost of Rs.20.00 crore,** submitted by Government of Arunachal Pradesh is coverable under any scheme of your Ministry/Department, and/or if your Ministry/Department could fund this project. If not, kindly render your views/comments on the project proposal to this Ministry at the earliest but not later than within 7 days of issue of this O.M. Copy of concept note is enclosed.

(A. K. Pandey) 06.10.2021
Under Secretary to the Govt. of India
E-mail: akhilesh.pandey13@nic.in

Encl. As stated above.

To

i. Secretary, Ministry of Road Transport & Highways, Transport Bhawan, Sansad Marg,New Delhi,110001 (*secy-road@nic.in*)
ii. Secretary, Ministry of Housing & Urban Affairs, Nirman Bhawan, C - Wing, Dr. Maulana Azad Road,New Delhi-110011 (*secyurban@nic.in*)
iii. Secretary, Department of Rural Development, Ministry of Rural Development, Krishi Bhawan, Dr. Rajendra Prasad Road,New Delhi-110001 (*secyrd@nic.in*)
iv. Chief Executive Officer (CEO), Niti Aayog, Sansad Marg, Sandad Marg Area, New Delhi (*ceo-niti@gov.in*).

Copy to:

i. Deputy Secretary (IFD), MDoNER for scrutiny/comments.

ii. Superintending Engineer, Technical Wing, MDoNER for scrutiny/comments.

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GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF FINANCE, PLANNING & INVESTMENT
PLANNING & INVESTMENT DIVISION
BLOCK NO. 1, 4th FLOOR
A.P. SECRETARIAT::ITANAGAR

Dated, Itanagar, 29th September, 2021.

To

Shri S. D. Meena
Deputy Secretary,
Ministry Of Development of NE Region,
East Block-10 (Level-IV),
R. K. Puram,
New Delhi-110066

Sub: **Forwarding of Concept paper of project proposal included in Priority List for NESIDS 2021-22**

Sir,

In continuation to this office letter of even number dated 31st August, 2021, I am directed to forward herewith a Concept Paper received from implementing agency against project proposal - **C/o Town double lane road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages** at an estimated cost of Rs. 20.00 crore.

The concept papers of remaining projects are being submitted shortly.

Yours faithfully,

Encl: - As stated above.

Signed by Punyendu Mishra
Date: 30-09-2021 14:21:46
Reason: Approved
(Punyendu Mishra)
Director (Project Coordination)

Copy to:

1. PS to Commissioner (PWD), Govt. of Arunachal Pradesh, Itanagar.
2. PS to Commissioner (P&I), Govt. of Arunachal Pradesh, Itanagar.
3. PA to Secretary (P&I), Govt. of Arunachal Pradesh, Itanagar.
4. The Chief Engineer, PWD (CZ-A/SID&P), Govt. of Arunachal Pradesh, Itanagar for information.
5. Office copy.

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GOVERNMENT OF ARUNACHAL PRADESH
PUBLIC WORKS DEPARTMENT

CONCEPT PAPER

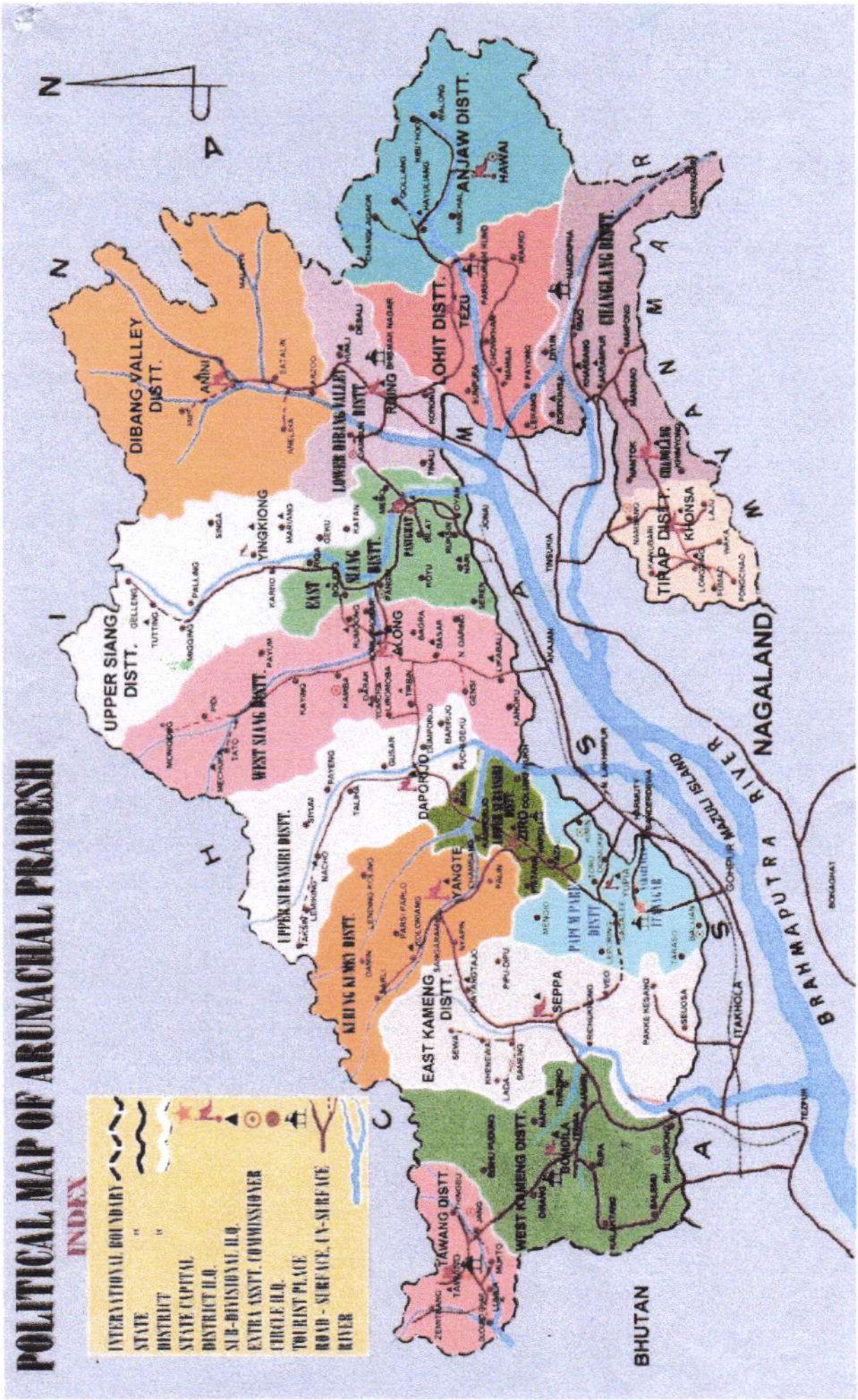
Name of Work : C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages..

Estimated Cost :Rs. 2000.00 Lakhs

Head of Account : NESIDS

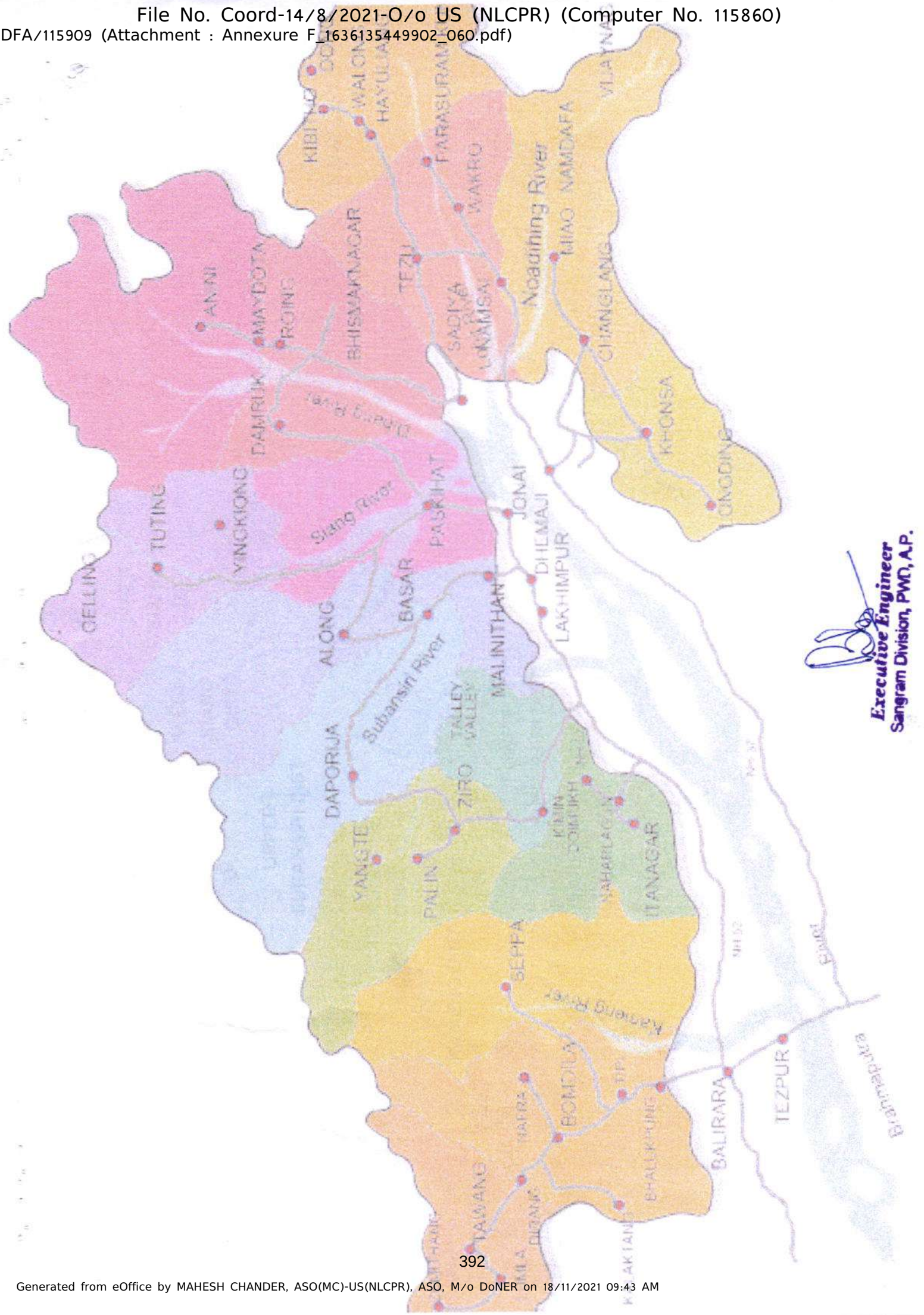
OFFICE OF THE EXECUTIVE ENGINEER
SANGRAM DIVISION, PWD,AP.
SANGRAM.

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Sangram Division, PWD, A.P.

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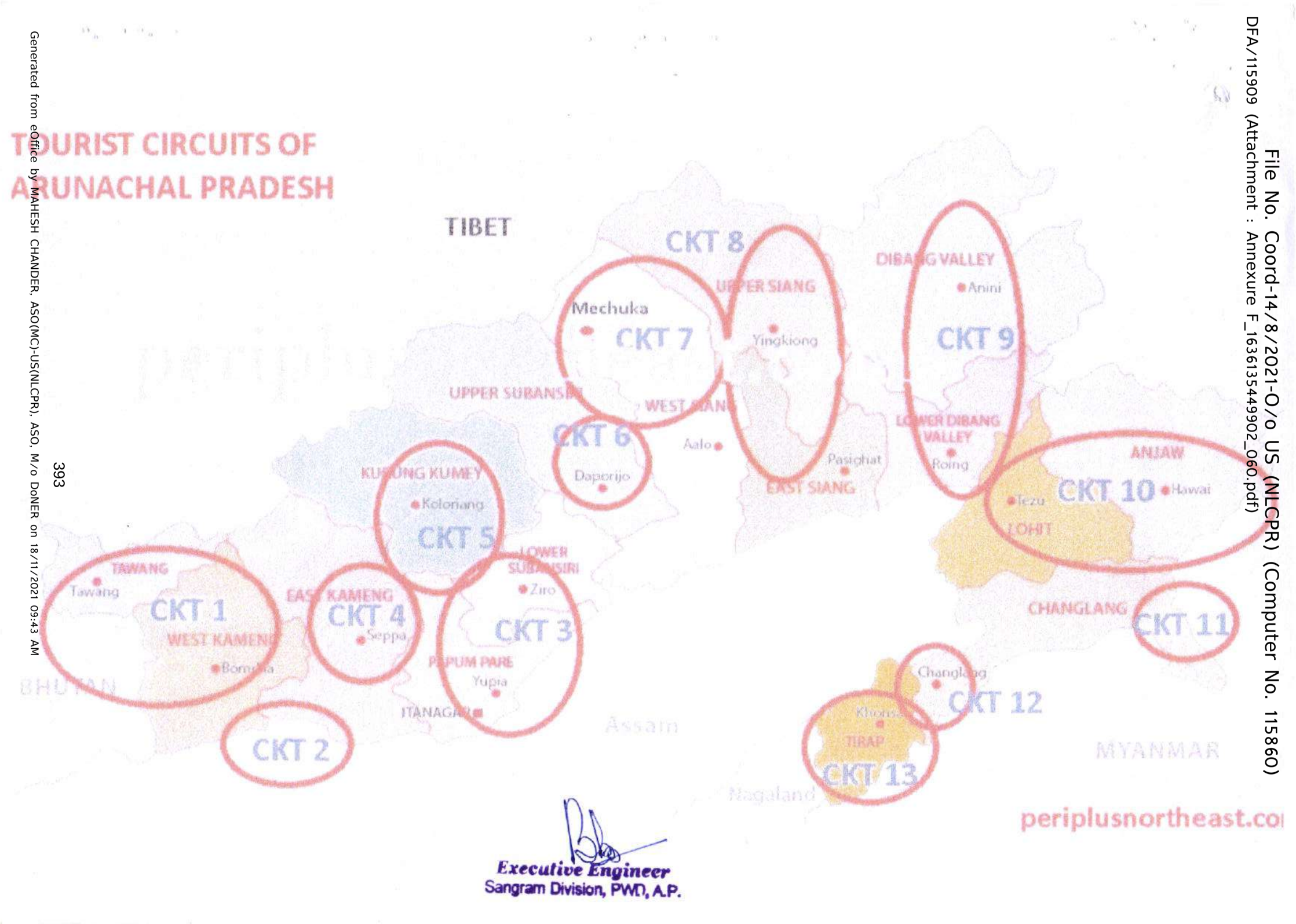
Executive Engineer
Sangram Division, PWD, A.P.

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File No. Coord-14/8/2021-O/o US (NLCPR) (Computer No. 115860)
DFA/115909 (Attachment : Annexure F_16361544990 2_060.pdf)

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TOURIST CIRCUITS OF ARUNACHAL PRADESH



Executive Engineer
Sangram Division, PWD, A.P.

NON DUPLICITY CERTIFICATE

This is to certify that the proposed work: **C/o Town Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.,Under Kurung Kumey District, Arunachal Pradesh.** Amounting **to Rs. 2000.00 Lakhs (Rupees Twenty Crore)** only, is a new work and the said work has not been proposed/taken up under any other schemes such as Centrally Sponsored schemes, State Plan etc. and it is only proposed under this scheme(NESIDS).

Executive Engineer
Sangram - Division PWD,AP.
Sangram

Executive Engineer
Sangram Division PWD; A.P
Sangram

Superintending Engineer
Yachuli Civil Circle, PWD,AP.
Yachuli

Superintending Engineer
Yachuli Civil Circle, PWD, AP.
Dated Yachuli the.....

Chief Engineer
Central Zone-A,PWD,AP
Itanagar

Chief Engineer
Central Zone-A, PWD, AP.
Itanagar.

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Scrutiny of Project Proposal/Concept Paper under year-2021-22

(a)	Name of the Project	**C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.**
(b)	Proposed Location	**Kurung Kumey**
(c)	Prposed Amount(as per concept paper provided to you)	**Rs. 2000.00 Lakhs**
(d)	Viability/Pripority of the project as per Department's requirement	Yes, the project is viable.
(e)	Whether the proposed amount is genuine as per technical standard. If so, please indicate the technically correct amount for the project.	Yes
(f)	Number of people likely to be benifited from the project	**14000**
(g)	Non-Duplicity Certificate	The prposed project is a new scheme which has not been undertaken from any other source of funding. Non-Duplicity certificate to this effect is enclosed with the Concept Paper.
(h)	Remarks/Any other Comments	The proposed project is very important as it invisage to cater the road connectivity within the circle HQ of Nyobia, Sangram and Phassang. which is unconnected by any approach/link roads in Kurung Kumey district of Arunachal Pradesh.

Executive Engineer
Sangram- Division PWD, AP
Sangram

Executive Engineer
Sangram Division PWD: A.P
Sangram

Superintending Engineer
Yachuli Civil Circle, Naharl.PWD,AP.
Yachuli

Superintending Engineer
Yachuli Civil Circle, PWD, AP.
Dated Yachuli the...../...../.....

Chief Engineer
Central Zone-A, PWD,AP
Itanagar

Chief Engineer
Central Zone-A, PWD, AP.
Itanagar.

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CONCEPT PAPER FOR THE PROJECT PROPOSAL

1.	Name of project and its location	:	C/o Town double Lane Road at Pokriang SDO Hqtr.Langrh and Phassang Circle and adjoining village.
2.	Estimated cost (` in lakh) along with line estimate.	:	The completion cost of the project is estimated at `**2000.00 Lakhs** (Annexure-I attached).
3.	Anticipated time frame of completion of the project.	:	1 (One) year from the date of sanction and placement of fund.
4.	Year wise physical and financial phasing.	:	**Year** / **Financial** / **Physical** 2021-22 / `2000.00 / 50%
5.	Problems to be addressed through the project at local/state level giving the nature and magnitude of problems.	:	Government of Arunachal Pradesh has drawn up various Tourist Circuit in Arunachal Pradesh. One such Circuit is Circuit No.5 which covers Kimin-Potin-Palin-Nyapin-Sangram-Koloriang. Nyapin,Sangram & Koloriang under Kurung Kumey district are Virgin area with lot of unexplored tourism potentiality like trekking,white water rafting,eco-tourism in the pristine rural area,cultural tourism,paragliding and sky diving.To harness these tourism potentiality in the beautifully located pristine areas of kurung kumey district like pokring SDO Head Quarter,Langrh,Phassang & Nyobia Circle Head Quarter,all weather road communication are poorly connected and rural areas in and around these location are mostly unconnected. To address these road connectivity shortfall,this road project has been envisaged under NESIDS.
6.	Development objectives of the proposal.	:	**The objectives of the proposal are :** The Objective of this road project is to provide all weather connectivity to these pristine virgin administrative headquarter and rural village nearby.
7.	Benefits likely to accrue quantified in terms of populations and other parameters.	:	Once Completed this road project will benefits 14000 populations of the district and it will greatly boost up agricultural and horticultural development of the area

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8.	On going initiatives taken by the State Government and manner in which duplication will be avoided and synergy created through the proposed project.	:	There is no ongoing project in these areas and duplicate does not arise.
9.	Economic parameters justifying the projects for funding and socio-economic analysis in case of social infrastructure project.	:	This is a tourism objective project. No socio-economic analysis has been made.
10.	Status of administrative and statutory clearances from State/Central Government.	:	The project is proposedwithin the community land free of any encumbrances.Hence,no statutory clearance is required
11.	Readiness for implement-tation of the project.	:	The PWD Department with requisite man power is ready to implementation of the project on sanction.
12.	Post-completion sustainability including operation and maintenance of assets.	:	The Post completion repair and Maintenance of these roads shall be done by the PWD under 3054 R&B Maintenance Head..

Executive Engineer
Sangram Division PWD,AP
Sangram

Executive Engineer
Sangram Division PWD: A.P
Sangram

Superintending Engineer
Yachuli Civil Circle PWD,AP
Yachuli

Superintending Engineer
Yachuli Circle, PWD, AP
Dated Yachuli the...../...../....

Chief Engineer
Central Zone-A,PWD,AP
Itanagar

Chief Engineer
Central Zone-A, PWD, AP.
Itanagar.

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General Abstract-LINE ESTIMATE

State : AP
Branch: B & R

Division : Sangram
Sub-Division : Sangram

Name of Works:C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.

Sl.No.	Sub Head & Item of Works	Quantity	Unit	Rate (Rs.)	Amount	Remarks
1	2	3	4	5	6	7
1	SH:- Site Development	3360	Cum	138.80	466368	
2	SH: Formation Cutting (Double Lane)	3.27	km	15396156.00	50345430.12	
3	SH: Formation Cutting (Single Lane)	9.52	km	5877201.00	55950953.52	
4	SH:Preparation of Sub-grade	13.73	Km	1193897.00	16392205.81	
5	SH:WBM-I	7.73	Km	2290027.00	17701908.71	
6	SH-WBM-II	2.46	Km	1692581.00	4163749.26	
7	SH;- WBM-III	2.46	Km	1717850.73	4225912.796	
8	SH:-Black Topping	2.46	Km	3401220.00	8367001.2	
9	SH:-CC Drain	1.6	Km	1616603.00	2586564.8	
10	SH:- Kutcha Drain	12.93	Km	210450.00	2721118.5	
11	SH:- R/Wall & B/Wall	738	Mtr	22000.00	16236000	
12	SH:-CD Works					
	RCC slab Culvert	18	Nos	1400000.00	25200000	

Sub Total Rs **19 59 90 211.52**

Add 1% Contingencies 19 59 902.12

Add 1% CESS 19 59 902.12

Grand Total Rs ₹ 19,99,10,015.75

Say Rs ***₹ 2,000.00*** **Lakhs**

(Rupees Twenty Crore) Only/-

Executive Engineer
Sangram Division PWD, A.P
Sangram

Executive Engineer
Sangram Division PWD: A.P
Sangram

Chief Engineer
Central Zone-A,PWD,AP.
Itanagar

Chief Engineer
Central Zone-A, PWD, AP
Itanagar.

Superintending Engineer
Yachuli Civil Circle PWD, AP
Yachuli

Superintending Engineer
Yachuli Civil Circle PWD, A.P
Dated Yachuli the.....

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Road inventory

Name of Work: C/o Town Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.

Sl. No	Name of Road	Total Road Length (In KM.)	F/C (per km.)		Sub-grade (In km.)	WBM-I (In km.)	WBM-II (In km.)	WBM-III (In km.)	BC (In km.)	CC Drain (In km.)	Kutcha Drain (In Km.)	R/B Wall (In Mtr.)	CD Works (In No.)
			Single Lane	Double Lane									
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	C/o Double Lane Road at Nyobia Township(3.27 Km) Ph-I.	3.27		3.27	3.27	3.27					3.27	103	5
2	C/o road from langrh Circle HQ to Patin(8.00Km) Ph-I.	8.00	8.00		8.00	2.00					8.00	150	3
3	C/o Extension of road from BRTF road to SDO Hq to Laying.	0.32	0.32		0.46	0.46	0.46	0.46	0.46		0.46	80	3
4	C/o Approach road to Pokriang SDO Hq sangram,Kurung Kumey (Ph-II)	2			2	2	2	2	2	1.6		325	4
5	C/o Approach Road from PMGSY Road to New Helipad at Lungsa Via Circuit House and Site development,under Phassang Circle in Kurung Kumey Dist A.P.	1.2	1.2								1.2	80	3
	Total=	**14.79**	**9.52**	**3.27**	**13.73**	**7.73**	**2.46**	**2.46**	**2.46**	**1.6**	**12.93**	**738**	**18**

Executive Engineer
Sangram Division, PWD, A.P
Sangram

Executive Engineer
Sangram Division PWD: A.P
Sangram

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Annex-i

LINE ESTIMATE

State : AP
Branch: B & R

Division : Sangram
Sub-Division : Sangram

Name of Works:C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.

Sl.No.	Sub Head & Item of Works	Quantity	Unit	Rate (Rs. in lakh)	Amount	Remarks
1	2	3	4	5	6	7
1	**SH: C/o Double Lane Road at Nyobia Township(3.27 Km) Ph-I.**					
	a) **Sh:Formation Cutting**	3.27	Km	1 53 96 156.00	50345430.12	APSR'21
	b) **Sh:Cross Drainage**					
	a) RCC Slab Culvert 1.00Mtre	2.00	Nos	976847.41	1953694.82	...Do....
	a) RCC Slab Culvert 2.00Mtre	3.00	Nos	1052091.00	3156273.00	...Do....
	c) **Sh:Protection Work**					
	a) Breast Wall	103.00	Mtr.	24164.9	2488984.70	...Do....
	d) **Sh:Pavement**					
	a)Preparation of Sub-grade	3.270	Km	40 513.00	132477.51	APSR'21
	b)(SH:WBM-1)	3.270	Km	2754679.00	9007800.33	...Do....
	e) (Sh:Kutcha Drain)	3.270	Km	210450.00	688171.50	...Do....
				Sub-Total Rs.(A)	**₹ 6,77,72,832**	
2	**SH: C/o road from langrh Circle HQ to Patin(8.00Km) Ph-I.**					
	a) (Sh:Formation Cutting)	8.00	Km	5877201.00	47017608.00	APSR'21
	b) **Sh:Cross Drainage**					...Do....
	a) RCC Slab Culvert 1.00Mtre	1.00	Nos	970847.41	970847.41	...Do....
	a) RCC Slab Culvert 2.00Mtre	2.00	Nos	1058209.10	2116418.20	...Do....
	c) **Sh:Protection Work**					...Do....
	a) R/Breast Wall	150.00	mtres	23164.00	3474600.00	...Do....
	d) **Sh:Pavement**					...Do....
	a)Preparation of Sub-grade	8.00	Km	20256.00	162048.00	...Do....
	e) b)(SH:WBM-1)	2.00	Km	1377340.00	2754680.00	...Do....
	f) **(Sh:Kutcha Drain)**	8.00	Km	210450.00	1683600.00	...Do....
				Sub-Total Rs.(B)	**₹ 5,81,79,802**	
3	**SH: C/o Extension of road from BRTF road to SDO Hq to Laying.**					
	a) **Sh:Formation Cutting**	0.46	Km	5877201.00	2703512.46	APSR'21
	b) **Sh:Cross Drainage**					...Do....
	a) RCC Slab Culvert 1.00 Mtr	1.00	Nos	970647.41	970647.41	...Do....
	b) RCC Slab Culvert 2.00 Mtr	1.00	Nos	1058209.10	1058209.10	...Do....

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d) RCC Slab Culvert 6.00 Mtr	1.00	Nos	5291045	5291045.00	...Do....
c) **Sh:Protection Work**					...Do....
a) Breast Wall	80.000	mtr.	23164.00	1853120.00	...Do....
d) **Sh:Pavement**					...Do....
a)Preparation of Sub-grade	0.460	Km	20256.00	9317.76	...Do....
b)(SH:WBM-I)	0.460	Km	1377340.00	633576.40	...Do....
b)(SH:WBM-II)	0.460	Km	1377341.00	633576.86	...Do....
b)(SH:WBM-III)	0.460	Km	1377342.00	633577.32	...Do....
c)Black-Topping	0.460	Km	3401220.00	1564561.20	...Do....
e) (Sh:Kutcha Drain)	0.460	Km	210450.00	96807.00	...Do....
				Sub-Total Rs.	**₹ 1,54,47,950.51**

Executive Engineer
Sangram Division, PWD, A.P
Sangram

Executive Engineer
Sangram Division PWD; A.P
Sangram

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Annex-ii

LINE ESTIMATE

State : AP
Branch: B & R

Division : Sangram
Sub-Division : Sangram

Name of Works: C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.

Sl.No.	Sub Head & Item of Works	Quantity	Unit	Rate (Rs. in lakh)	Amount	Remarks
1	2	3	4	5	6	7
	SH: C/o Approach road to Pokriang SDO Hq sangram,Kurung Kumey (Ph-II)					
a)	Sh:Preparation of Sub-grade	2	km	1193897	23 87 794.00	APSR'21
b)	Sh:WBM-I	2	km	2290027	45 80 054.00	...Do....
c)	Sh:WBM-II	2	km	1692581	33 85 162.00	...Do....
d)	Sh:WBM-III	2	km	1717850.73	34 35 701.46	...Do....
e)	Black-Topping	2	km	3401220	68 02 440.00	...Do....
f)	Sh: CC Drain	1.6	Km	1616603	25 86 564.80	
g)	**Sh:Protection Work**					...Do....
	a) R/Breast Wall 3.00 mtre	260	Mtr.	45000	1 17 00 000.00	...Do....
h)	**Sh:Cross Drainage**					...Do....
	a) RCC Slab Culvert 1.00Mtre	3	Nos	1058209.10	31 74 627.30	...Do....
	b) RCC Box Culvert 2x2	1	Nos	1635490.2	16 35 490.20	...Do....
				Sub Total Rs.	**₹ 3,96,87,833.76**	

Executive Engineer
Sangram Division, P.W.D; A.P.

Executive Engineer
Sangram Division P.W.D; A.P
Sangram

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Annex-iii

LINE ESTIMATE

State : AP
Branch: B & R

Division : Sangram
Sub-Division : Sangram

Name of Works:C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages.

Sl.No.	Sub Head & Item of Works	Quantity	Unit	Rate (Rs.)	Amount	Remarks
1	2	3	4	5	6	7
	SH:C/o Approach Road from PMGSY Road to New Helipad at Lungsa Via Circuit House and Site development,under Phassang Circle in Kurung Kumey Dist A.P.					
	a) Sh:Site Development	3360	Cum	138.8	466368.00	APSR'21
	b) Sh:Formation Cutting)	1.20	Km	5664502.75	6797403.30	...Do....
	c) **Sh:Cross Drainage**					...Do....
	a) RCC Slab Culvert-2m	3	Nos	1125101.00	33 75 303.00	...Do....
	d) **Sh:Protection Work**					...Do....
	a) R/Wall	80	Mtre	46515.84	37 21 267.20	...Do....
	e) **Sh:Kutcha Drain**	1.20	Km	251000.00	3 01 200.00	...Do....
				Sub Total Rs.	**₹ 1,46,61,542**	

Executive Engineer
Sangram Division, PWD, AP.
Sangram

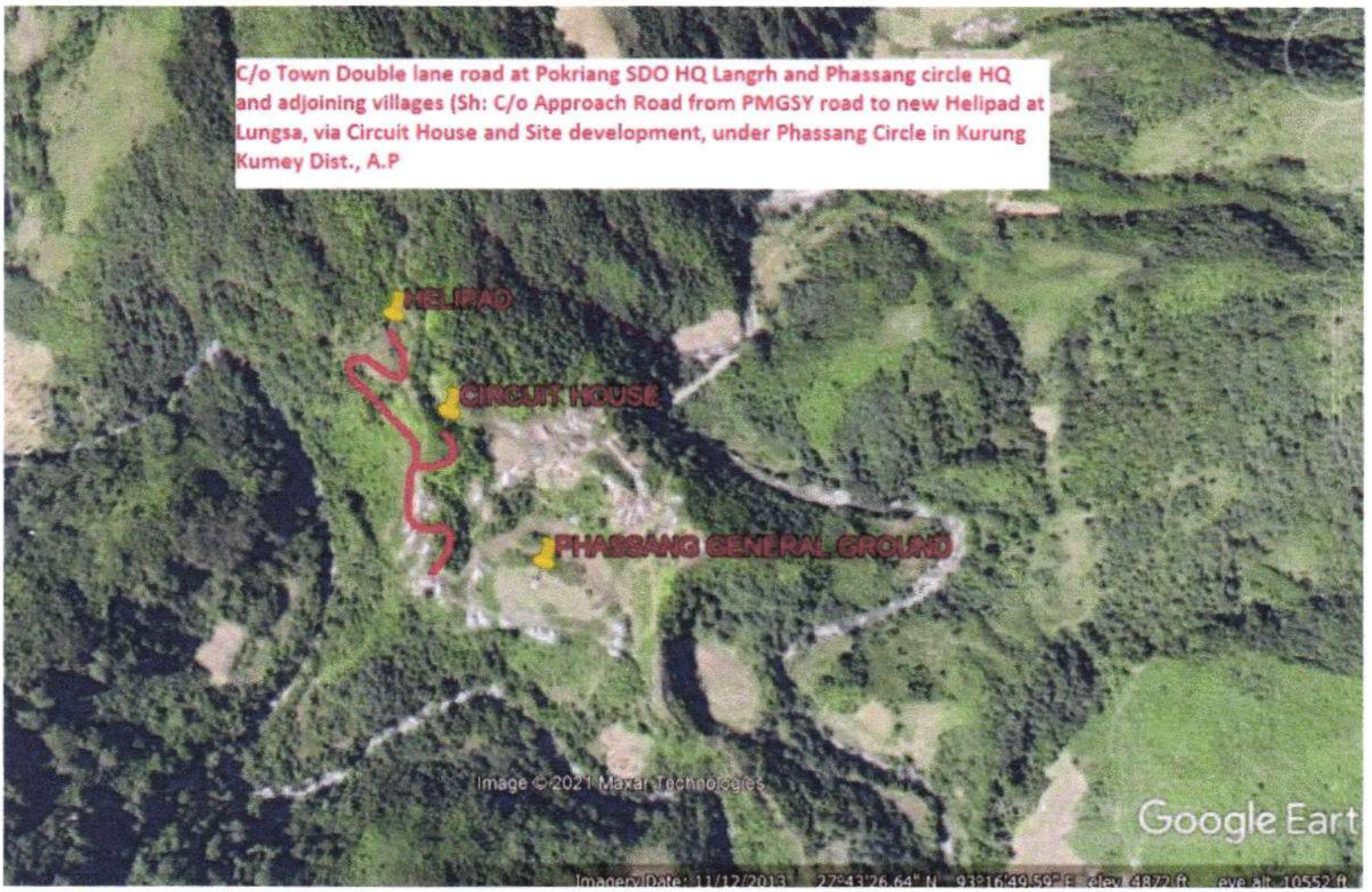
Executive Engineer
Sangram Division PWD: A.P
Sangram

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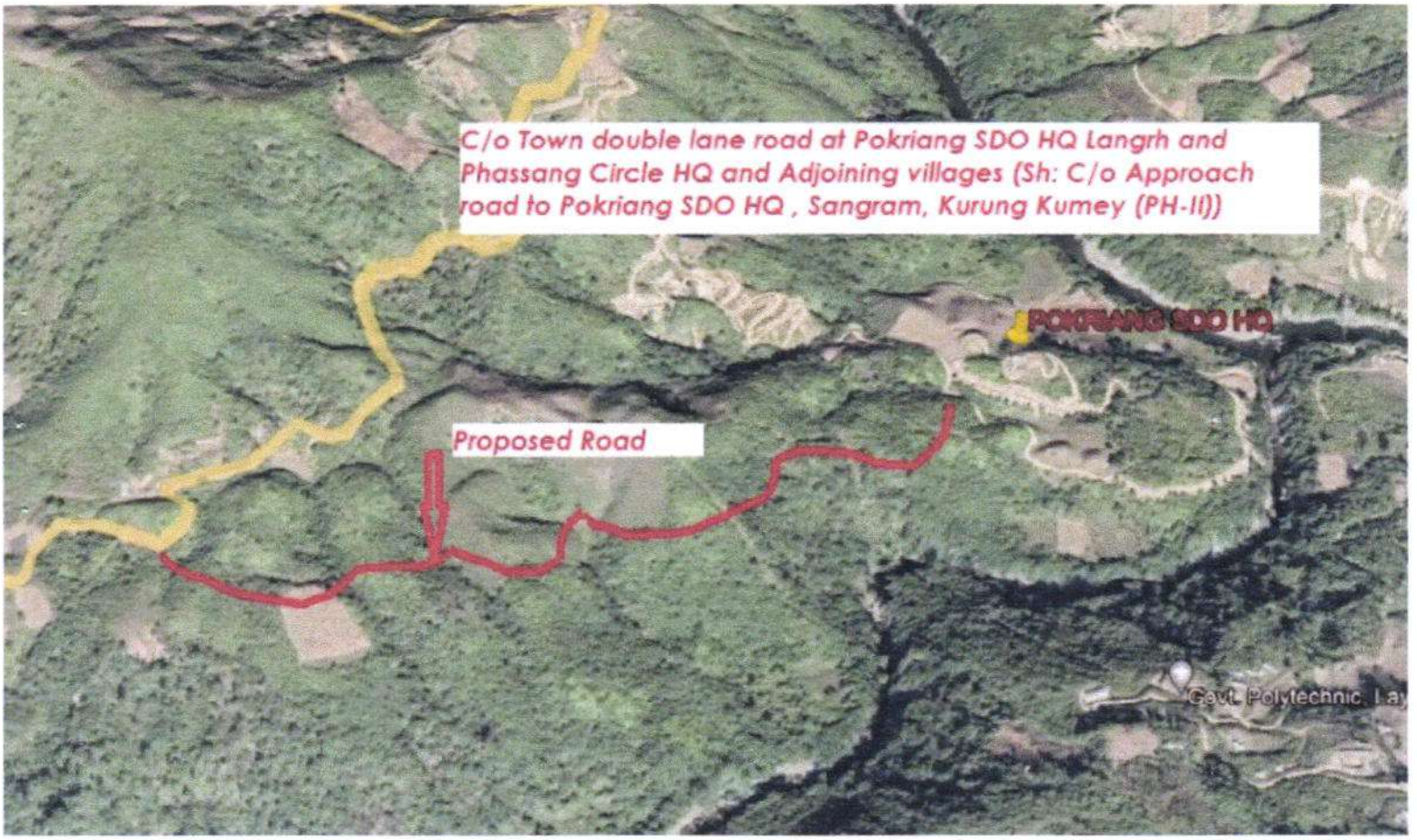
Executive Engineer
Sangram Division, PWD, A.P.

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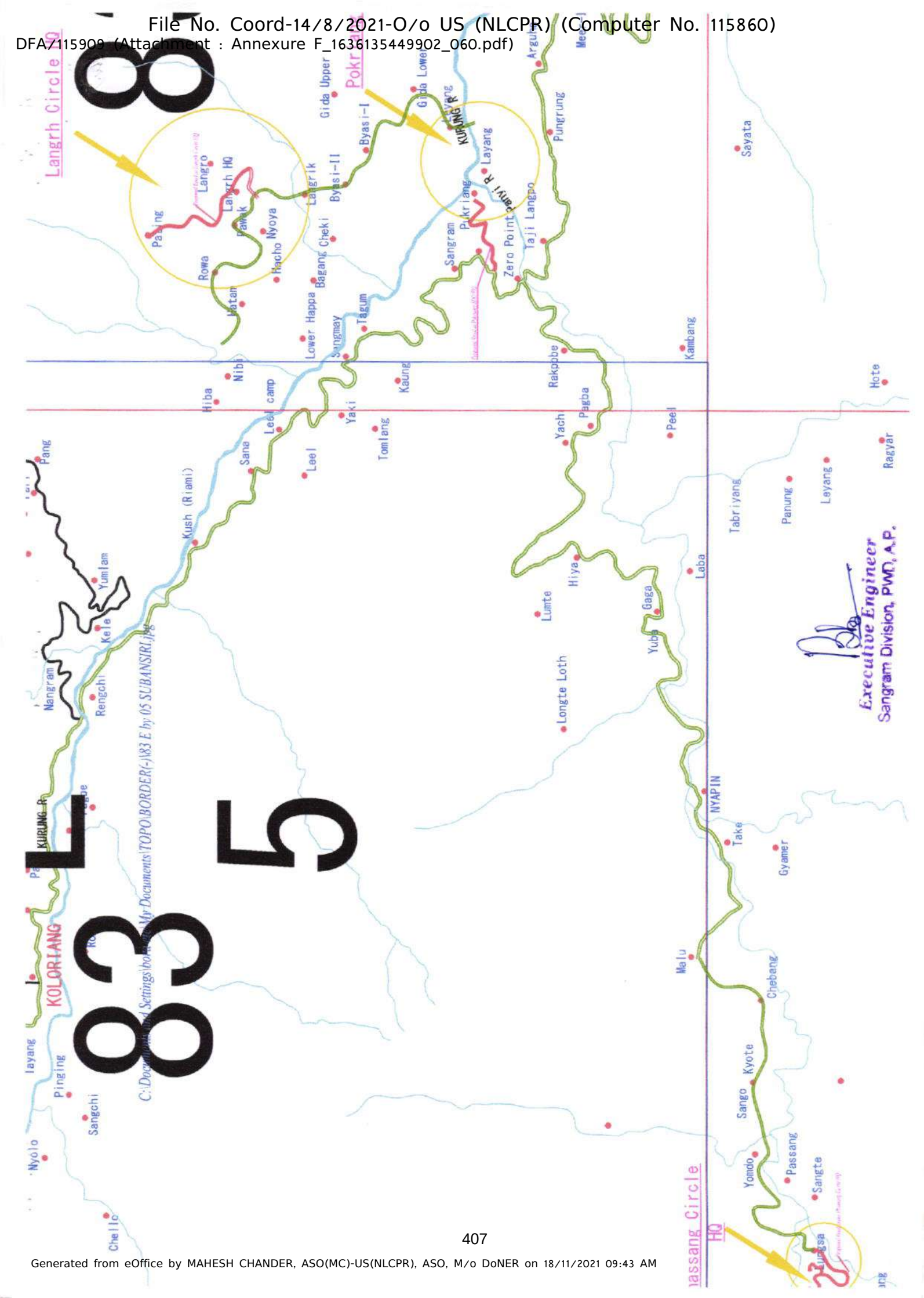
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1. Tezpur-Bhalukpong-Bomdila-Tawang
2. Tezpur-Seijosa(Pakhui)-Bhalukpong-Tipi-Tezpur
3. Itanagar-Ziro-Daporijo-Aalo-Pasighat
4. Doimukh-Sagalee-Pakke Kesang-Seppa
5. Ziro-Palin-Nyapin-Sangram-Koloriang
6. Daporijo-Taliha-Siyum-Nacho
7. Aalo-Mechuka
8. Pasighat-Jengging-Yingkiong-Tuting
9. Tinsukia-Tezu-Hayuliang
10. Dibrugarh-Roing-Mayudia-Anini
11. Margherita-Miao-Namdapha

ACCESS

While the Lohit, Tirap and Dibang valleys can be accessed from Dibrugarh (Kolkata-Dibrugarh), it is best to head for Bomdila-Tawang from the Tezpur side and Itanagar-Ziro-Aalo-Pasighat from the Lilabari (North Lakhimpur) side. A visit to the state can be divided into four distinct parts: the Bomdila-Sela-Tawang region, Itanagar-Ziro-Aalo-Pasighat, Roing-Anini and Namdapha-Tezu.

TEMPERATURE

In summer it varies between 25C and 35C and in winter it ranges from 1C to 15C.

BEST TIME TO VISIT

From September to May

ENTRY FORMALITIES

Recommended Tourist Circuits (https://theholidayscout.com/arunachal-pradesh/recommended-tourist-circuits.html)

Buddhist Pilgrimage (https://theholidayscout.com/arunachal-pradesh/buddhist-pilgrimage.html)

Wildlife (https://theholidayscout.com/arunachal-pradesh/wildlife.html)

Fairs and Festivals (https://theholidayscout.com/arunachal-pradesh/fairs-and-festivals.html)

Tours (https://theholidayscout.com/arunachal-pradesh/tours.html)

Executive Engineer
Sangram Division, PWD, A.P.

N-11011/148/2017-HFA-1/ FTS:9020067

Government of India
Ministry of Housing & Urban Affairs
HFA Mission Directorate
[HFA-I Division]
*****

Nirman Bhawan, New Delhi
Dated the 12th October, 2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Arunachal Pradesh under NESIDS-regarding

The undersigned is directed to refer to NER Division's O.M. No K-14011/27/2013-UD.III (Part-1) dated 11.10.2021 enclosing therewith a copy of the Ministry of Development of North Eastern Region O.M. NESIDS-11014(11)/1/2021 dated 06.10.2021 wherein it has been requested to examine and intimate whether project proposal submitted by Government of Arunachal Pradesh *viz "c/o Town double lane road at Pokriang SDO Hq. Langrh and Phassang circle Hq. and adjoining Villages'* is coverable under any scheme of the Ministry.

2. In this regard, it is stated that HFA Mission Directorate is implementing Pradhan Mantri Awas Yojana – Urban (PMAY-U) since 25.06.2015 to assist States/Union Territories for providing all weather pucca houses to eligible urban households by year 2022. The proposal submitted by State Government of Arunachal Pradesh does not fall under the scope of PMAY-U.

(Jagdish Prasad)
Under Secretary (HFA-I)
Tel: 011-23063029

To

Under Secretary (NLCPR Division)
Ministry of Development of North Eastern Region
New Delhi.

Copy to: Under Secretary (NER Division), Ministry of Housing & Urban Affairs New Delhi.

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K-14011/27/2013-UD III(Part-1)
Government of India
Ministry of Housing & Urban Affairs
(NER Section)

Nirman Bhawan, New Delhi
Dated 11th October, 2021

OFFICE MEMORANDUM

Sub: Project proposals submitted by Government of Arunachal Pradesh under NESIDS.

The undersigned is directed to enclose herewith a copy of the OM No. NESIDS-11014(11)/1/2021-O/o US (NLCPR) dated 06.10.2021 along with its enclosure received from the Ministry of DoNER on the aforesaid subject and to say that all the Missions/Schemes of this Ministry may please examine the project proposal submitted by the Government of Arunachal Pradesh on the basis of their scheme guidelines and furnish their comments to the Ministry of DoNER directly under intimation to this Section.

2. This issues with the approval of Competent Authority.

Encl: As above

(Y. S. Yadav)
Under Secretary (MC&NER)
Tele: 23062472

To

All Missions/Schemes of Ministry of Housing & Urban Affairs
(AMRUT/SCM/SBM/DAY-NULM/PMAY-U/UT)

Copy to: SO(IT Cell) for uploading on e-office site.

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No. NESIDS-11014(11)/1/2021-O/o US (NLCPR)
Government of India
Ministry of Development of North Eastern Region
****

East Block-10,
Level-4, R.K. Puram
New Delhi - 110066
Dated 06.10.2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Arunachal Pradesh under NESIDS for F.Y. 2021-22.

The undersigned is directed to refer to subject mentioned above and to request to kindly examine and intimate whether the proposed project proposal *viz.* **"C/o Town double lane road at Pokriang SDO Hq. Langrh and Phassang circle Hq. and adjoining villages' in Arunachal Pradesh at an estimated cost of Rs.20.00 crore,** submitted by Government of Arunachal Pradesh is coverable under any scheme of your Ministry/Department, and/or if your Ministry/Department could fund this project. If not, kindly render your views/comments on the project proposal to this Ministry at the earliest but not later than within 7 days of issue of this O.M. Copy of concept note is enclosed.

(A. K. Pandey) 06.10.2021
Under Secretary to the Govt. of India
E-mail: akhilesh.pandey13@nic.in

Encl. As stated above.

To

i. Secretary, Ministry of Road Transport & Highways, Transport Bhawan, Sansad Marg,New Delhi,110001 (*secy-road@nic.in*)
ii. Secretary, Ministry of Housing & Urban Affairs, Nirman Bhawan, C - Wing, Dr. Maulana Azad Road,New Delhi-110011 (*secyurban@nic.in*)
iii. Secretary, Department of Rural Development, Ministry of Rural Development, Krishi Bhawan, Dr. Rajendra Prasad Road,New Delhi-110001 (*secyrd@nic.in*)
iv. Chief Executive Officer (CEO), Niti Aayog, Sansad Marg, Sandad Marg Area, New Delhi (*ceo-niti@gov.in*).

Copy to:

i. Deputy Secretary (IFD), MDoNER for scrutiny/comments.

ii. Superintending Engineer, Technical Wing, MDoNER for scrutiny/comments.

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GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF FINANCE, PLANNING & INVESTMENT
PLANNING & INVESTMENT DIVISION
BLOCK NO. 1, 4th FLOOR
A.P. SECRETARIAT::ITANAGAR

Dated, Itanagar, 29th September, 2021.

To

Shri S. D. Meena
Deputy Secretary,
Ministry Of Development of NE Region,
East Block-10 (Level-IV),
R. K. Puram,
New Delhi-110066

Sub: **Forwarding of Concept paper of project proposal included in Priority List for NESIDS 2021-22**

Sir,

In continuation to this office letter of even number dated 31st August, 2021, I am directed to forward herewith a Concept Paper received from implementing agency against project proposal - **C/o Town double lane road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages** at an estimated cost of Rs. 20.00 crore.

The concept papers of remaining projects are being submitted shortly.

Yours faithfully,

Encl: - As stated above.

Signed by Punyendu Mishra
Date: 30-09-2021 14:21:46
Reason: Approved
(Punyendu Mishra)
Director (Project Coordination)

Copy to:
1. PS to Commissioner (PWD), Govt. of Arunachal Pradesh, Itanagar.
2. PS to Commissioner (P&I), Govt. of Arunachal Pradesh, Itanagar.
3. PA to Secretary (P&I), Govt. of Arunachal Pradesh, Itanagar.
4. The Chief Engineer, PWD (CZ-A/SID&P), Govt. of Arunachal Pradesh, Itanagar for information.
5. Office copy.

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GOVERNMENT OF ARUNACHAL PRADESH
PUBLIC WORKS DEPARTMENT



CONCEPT PAPER

Name of Work : C/oTown Double Lane Road at Pokriang SDO Hq Langrh and Phassang circle Hq and adjoining villages..

Estimated Cost :Rs. 2000.00 Lakhs

Head of Account : NESIDS

OFFICE OF THE EXECUTIVE ENGINEER
SANGRAM DIVISION, PWD,AP.
SANGRAM.

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region
.....

Janpath Bhawan, Middle "B" Wing,
6th Floor, Janpath, New Delhi.
Dated: 06.10.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Arunachal Pradesh under North East Special Infrastructure Development Scheme (NESIDS).

Please refer to your Office Memorandum No. NESIDS-11014(11)/1/2021-O/o US (NLCPR) dated 06.10.2021 vide which Project Proposal of the following project has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of Town double lane road at Pokriang SDO Hq. Langrh and Phassang Circle Hq. & adjoining villages in Arunachal Pradesh.	20.00	(a) No specifications i.e thickness of different layers of Road Pavement have been mentioned. (b) The MSA & CBR value is not mentioned. (c) The provision of layers of WBM-I, WBM-II and WBM-III in Road Pavements have been taken but as per IRC code, GSB & WMM has to be provided. (d) The RCC culvert widths have not been deducted in the length of the road while prepration of estimate. (e) The provision @1.00% on account of contingency has been taken. Program division may like to see.

This issued with the approval of Superintending Engineer (TW).

8/10/2021
(Parveen Kumar)
Executive Engineer (TW)

To

Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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K-14011/27/2013-UD-III (Part-1)
Government of India
Ministry of Housing & Urban Affairs
(NERUDP Section)

Nirman Bhawan, New Delhi
Dated the 11th October, 2021

OFFICE MEMORANDUM

Sub: Project proposals submitted by Government of Arunachal Pradesh under NESIDS for F.Y. 2021-22.

The undersigned is directed to refer to OM No. NESIDS-11014(11)/1/2021-O/o US (NLCPR) dated 06.10.2021 received from the Ministry of DoNER on the aforesaid subject and to say that the NERUDP Section is dealing with the 10% Lumpsum Scheme and NERUDP Scheme. The 10% Lumpsum Scheme was ended on 31.03.2021 and the NERUDP Scheme is extended upto 31.03.2022 to complete the ongoing projects only. Therefore, it is not feasible to consider the project proposals submitted by the Government of Arunachal Pradesh under both these schemes.

2. So far as considering the above project proposals of the Government of Arunachal Pradesh in any other schemes of this Ministry, a copy of the letter dated 06.10.2021 received from Ministry of DoNER along with the Concept Paper of the project is forwarded to all the Missions/Scheme with a request to examine the same and furnish their reply to the Ministry of DoNER directly.

3. This issues with the approval of Competent Authority.

Yadav

(Y. S. Yadav)
Under Secretary to the Govt. of India
Tele: 2306 2472

Ministry of DoNER,
(Kind Attention: A. K. Pandey, Under Secretary)
Level-IV, East Block 10,
R. K. Puram
New Delhi -110066.

Sh. Mahesh, ASO
13/X

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DFA/115909 (Attachment : Annexure F_1636135449902_060.pdf)

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DFA/115909 (Attachment : Annexure F_1636135449902_060.pdf)

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DFA/115909 (Attachment : Annexure F_1636135449902_060.pdf)

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Government of India
Ministry of Road Transport & Highways
1 Transport Bhawan, Parliament Street, New Delhi - 110001

Dated: October, 2021

To,

The Under Secretary,
[Kind Attention: Shri A.K. Pandey]
Ministry of Development of North Eastern Region (DoNER),
East Block-10,
Level-4, RK Puram
New Delhi – 110 066
Email: akhilesh.pandey13@nic.in

Sub:-Project proposal submitted by Government of Arunachal Pradesh under NESIDS for FY 2021-22 – Comments of MoRTH - reg.

Ref: OM no.NESIDS-11014(11)/1/2021-O/o US (NLCPR) dated 06.10.2021 received from Ministry of Development of North Eastern Region (DoNER).

Sir,

Please refer to your OM dated 06.10.2021 cited at reference submitting project proposal **"C/o Town double lane road at Pokriang SDO Hq. Langrh and Phassang circle Hq. and adjoining village in the state of Arunachal Pradesh at an estimate cost of Rs.20.00 crores"** with a request to give views/comments on the same.

2. The concept proposal has been examined and following comments have been made:

i. The project length mentioned as 14.79 Km [9.52 (single lane) + 3.27 (double lane)] however, the improvement with Black top (with BC) is proposed in mere length of 2.46 km only.
ii. An amount of Rs.10.63 crores (out of Rs.19.59 crores) has been proposed for Formation cutting in a length of 12.79 Kms which appears to be very high, specially for Sub estimate-1 (Rs.5.03 cr for formation cutting out of total 6.77 cr, which is 75% of total sub estimate) and sub estimate 2 (Rs.4.70 cr for formation cutting out of total 5.81 cr, which is 81% of total sub estimate), while other pavement crust and bituminous layer has not been considered in the estimate. This huge amount for formation cutting may not be considered without detailed calculation along with drawings.
iii. The improvement with Black Top over WBM-I layer for length of 5.27 kms has not been considered.
iv. The length of road from "C/o extension of road from BRTF road to SDO Hq to Laying" has been mentioned (at Sr.3 of sub estimate) as 0.32 km. However, the estimate proposed in a length of 0.46 kms.
v. The thickness of the crust composition and traffic details of proposed improvement have not been mentioned.
vi. The amount for pre-construction activities (Land Acquisition & Utility shifting), if any, has not been mentioned.

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vii.DPR for proper appreciation of the project has not been furnished.

These issues is with the approval of competent Authority in Ministry.

Yours faithfully,
(Nakul Prakash
Verma)
Executive Engineer (Zone-V)
For DG (RD) & Special Secretary

Digitally Signed by Nakul
Prakash Verma
Date: 27-10-2021 12:41:03
Reason: Approved

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Annexure B

31st meeting of IMC/NESIDS Committee scheduled for 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Arunachal Pradesh**

Name of Project: Construction of road from Kodum CO Hq to Bam Tri-junction 16.5 km under West Siang District under NESIDS.

Project Description/Summary (not exceeding 200 words): The proposed road is a improvement work of existing road network. The project aims to provide a better and shorter alternate inter district connectivity between Aalo the district Hq of West Siang Districa and Basar the district Hq of Leparado District. Out of 16.50 km, widening and sub base layer for 6.50 km and block topping of 1.50 km has been compited through SIDF 2017-18. The remaining 10 km is a PMGSY road with average formation width of 5.00 m and carriage width of 3.00 m. The proposed project is for upgradation and geometric improvement of 10.00 km road from Nyorak - Rakte to Bam Trijuction (PMGSY road) and BT of 15.00 km road from Kodum CO Hq. to Bam-Trijunction.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2000.00 lakh
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____ (Primary/Secondary Sectors of Education/Health - mention as applicable)	Connectivity
1.4	**Project Linkages with Promotion of Tourism (not exceeding 100 words):** The project is expected to to become an economic corridor connecting many commercial hub and tourism hotspots.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, It is a new project. The project is not proposed in any other Ministry. Non-duplicity certificate has been submitted by State Government.
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities**	After completion of the project, the asset created shall be maintained by keeping necessary fund provision under maintenance head as in practice in Arunachal Pradesh. Hence, this projet shall be self sustained after its completion in future.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	**Cost (Rs. In lakh)**
1	**Earth work**	
1.1	Formation Cutting/widening (10 km)	330
2	**Pavement**	
2.1	GSB Grade-(150.00 mm thick) [10 km]	300
2.2	WBM II (10 km)	130
2.3	WBM III (15 km)	225

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2.4	BC (3.75m width, 40.00 mm thick) [15 km]		450.00
3	**Cross Drainage**		
3.1	Slab Culvert-1.00m span (30 nos.)		156.00
3.2	Slab Culvert-1.50m span (7 nos.)		39.90
3.3	Slab Culvert-2.00m span (6 nos.)		37.20
3.4	Slab Culvert-4.00m span (1 nos.)		18.00
4	**Bridges**		
4.1	RCC Bridge-10 m Span 1 no. (10 m)		130
5	**Protection work**		
5.1	Retaining Wall/Breast Wall (Ht.-3.00 m to 5.00 m) (250 m)		100.00
6	**Road side drain**		
6.1	CC Drain (1km)		32.00
7	**Miscellaneous**		
7.1	Traffic sign board & road marking		13.20
	Total		**1961.30**
	Add 1% contingencies		19.61
	Add 1% Quality Control		19.61
	Grand Total		**2000.52**
	Say Rs.2000.00 lakh		
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	**Nil**	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	**Nil**	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**	12.10.2021	
1.9	**Original**	Yes	
1.10	**Revised (if any)**	Nil	
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	Non-duplicity certificate has been submitted by SG	
3	**Normative allocation of SG and related details**	Rs.156.72 crore	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
i.	IFD, MDoNER	13.10.2021	Comments awaited
ii.	Technical Wing, MDoNER	13.10.2021	14.10.2021
iii.	NITI Aayog	13.10.2021	Comments awaited
iv.	Department of Rural Development	13.10.2021	Comments awaited
v.	Ministry of Road Transport and Highways	13.10.2021	27.10.2021
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	
	(b) Abstract of cost/Broad break up of costs	Yes	
	(c) Approval of CS	The Priority List of projects for NESIDS 2021-22 have been received from Planning Department, Government of Arunachal Pradesh	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	

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6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)** **Technical Wing & MoRTH:** Technical observations on the specification of the project proposal submitted by State Government. Detailed comments are annexed.		
7	**Important observations/comments of Prog. Division**		
	The proposed project proposal is covered under NESIDS guidelines, hence Programme Division recommends the proposal for placing before IMC/NESIDS Committee for consideration for selection under NESIDS.		
			(Dated Signature & Name of
			Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of the line Ministry/IFD/Technical Wing, MDoNER	Comments in brief	Response of SG/proposal submitting agency to the comments	Response of programme Division
1	2	3	4	5
i.	IFD, MDoNER			
ii.	Technical Wing, MDoNER	(a) The composition of road pavement considered in the concept note is not as per IRC. The provision of layers of GSB (150mm), WBM-II (75 mm), WBM-III (75 mm) and Bituminous Concrete (40 mm) has been taken but as per IRC code, layers of GSB, WBM, BM & BC is provided. State Govt may be asked to submit the basis of considering the composition of road pavements. (b) The MSA & CBR value is not mentioned (c) In Typical Cross Section, the width of BC is taken as 3.75 m whereas width of GSB and WBM is taken as 5.50m. State Govt. may be asked to clarify (d) It is not clear whether the weightage of the layers of existing road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify. (e) The provision @ 1.00% on account of contingency has been	Response of SG awaited.	SG may clarify the same in the meeting and accordingly consider the observations of Technical Wing at DPR preparation stage.
iii.	NITI Aayog			
iv.	Department of Rural Development			
v.	Ministry of Road Transport and Highways	Technical observations on the specification of the project proposal. Detailed comments are annexed.	Response of SG awaited.	SG may clarify the same in the meeting and accordingly consider the observations of Technical Wing at DPR preparation stage.

(Dated Signature & Name of Under Secretary concerned)

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Annexure C

31st meeting of IMC/NESIDS Committee scheduled for 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Arunachal Pradesh**

Name of Project: Construction of road from Marung Gika to Panior Bridge Point via Sarchgai, Mate, Kusuk and Pan-21.00 km (SH: Widening, CD Work, Protection Work, WBM, Carpeting and CC Drain) in Papum Pare District under NESIDS.

Project Description/Summary (not exceeding 200 words): The proposed road starting from "Marung Gika and terminates at Panior Bridge point via Sarch Gai, Mate, Kusuk & Pan-21.00 Km", will connect EAC Hq. Sakiang which is presently a fair weather road. Teh formation formation cutting of raod stretch from marung Gika to Sarch Gai 2.00 Km & Pan to Panior Bridge point - 4.00 km was constructed during 2011-12 & 2016-17 under the scheme SPA/ (state plan) respectively. Due to scarcity of fund , other items of work like cross drainage protection work, pavements & CC drain could not be takne up till date. Further, the road stretch from Sarch Gai to pan-15.00 km was also constructed up to the WBM-I only under NLCPR. The proposed road will connect very important villages like Marung gika, Sarchgai, Mate, Kusuk under Silsango Circle & Pan, Tacha under EAC Hq. Sakiang.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2000.00 lakh
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Connectivity
1.4	**Project Linkages with Promotion of Tourism (not exceeding 100 words):** The proposed road is to connect EAC Hq. Sakiang from Sagalee ADC Hq. with all weather road for a total length of 21.00 km and will promote agro-tourism and eco-tourism in Papum Pare District as the area is known for huge Agriculture & Horticulture potential. The proposed project falls under Itangar-Ziro-Daporijo-Aalo-=Pasighat tourist circuit.	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, It is a new project. Non-duplicity certificate has been submitted by State Government.
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	The project will be operated and maintained by PWD Govt. of A.P. The maintenance cost of the road after its completion will be borne by the State Government.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	**Cost (Rs. in lakh)**
1	**Earth work**	

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1.1	Widening (3 km)		30
1.2	Re-allgnment (1.50 km)		53
2	**Cross Drainage**		
2.1	Slab Culvert-1.00m span [11 nos.]		83.00
2.2	Slab Culvert-2.00m span [12 nos.]		132.00
2.3	Slab Culvert-4.00m span [1 nos.]		20.00
2.4	Slab Culvert-6.00m span [1 nos.]		22.00
3	**Protection work**		
3.1	RCC R/Wall [Ht.-4.00 m] (500 m)		300.00
3.2	RCC R/Wall [Ht.-3.00 m] (300 m)		150.00
4	**Pavement**		
4.1	Preparation of (Sub-grade) [5.955 km]		18.00
4.2	GSB-I [5.955 km]		83.00
4.3	WBM-II [21 km]		231.00
4.4	WBM-III [21 km]		210.00
4.5	Carpeting [21 km]		525.00
5	**CC Drain (4.75 km)**		**143.00**
	Total		**2000.00**
	Say Rs.2000.00 lakh		
1.7A	**Out of above, SG's Contribution in the Project Cost, if any**	Nil	
1.7B	**Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any**	Nil	
1.8	**Date of receipt of proposal/concept note from State Government (SG)**	12.10.2021	
1.9	**Original**	Yes	
1.10	**Revised (if any)**	Nil	
2	**Is the project in question supported/coverable under any other scheme of Central or State Government**	Non-duplicity certificate has been submitted by SG	
3	**Normative allocation of SG and related details**	Rs.156.72 crore	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
i.	IFD, MDoNER	13.10.2021	Comments awaited
ii.	Technical Wing, MDoNER	13.10.2021	14.10.2021
iii.	NITI Aayog	13.10.2021	Comments awaited
iv.	Department of Rural Development	13.10.2021	Comments awaited
v.	Ministry of Road Transport and Highways	13.10.2021	27.10.2021
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	
	(b) Abstract of cost/Broad break up of costs	Yes	
	(c) Approval of CS	The Priority List of projects for NESIDS 2021-22 have been received from Planning Department, Government of Arunachal Pradesh	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	

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6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)** **Technical Wing & MoRTH:** Technical observations on the specification of the project proposal submitted by State Government. Detailed comments are annexed.		
7	**Important observations/comments of Prog. Division**		
	The proposed project proposal is covered under NESIDS guidelines, hence Programme Division recommends the proposal for placing before IMC/NESIDS Committee for consideration for selection under NESIDS.		
			(Dated Signature & Name of
			Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of the line Ministry/IFD/Technical Wing, MDoNER	Comments in brief	Response of SG/proposal submitting agency to the comments	Response of programme Division
1	2	3	4	5
i.	IFD, MDoNER			
ii.	Technical Wing, MDoNER	(a) No specifications i.e. thickness and width of different layers of Road Pavement have been mentioned. (b) The composition of road pavement considered in the concept noteis not as per IRC. The provision of layers of GSB-I, WBM-II and Carpeting has been taken but as per IRC code, layers of GSB, WBM, BM & BC is provided. State Govt. may be asked to submit the basis of considering the composition of road pavements. (c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of existing road have been considered or not while preparing cost estimate. State Govt. may be aksed to clarify.	Response of SG awaited.	SG may clarify the same in the meeting and accordingly consider the observations of Technical Wing at DPR preparation stage.
iii.	NITI Aayog			
iv.	Department of Rural Development			
v.	Ministry of Road Transport and Highways	Technical observations on the specification of the project proposal. Detailed comments are annexed.	Response of SG awaited.	SG may clarify the same in the meeting and accordingly consider the observations of Technical Wing at DPR preparation stage.

(Dated Signature & Name of Under Secretary concerned)

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No. NESIDS-11014(11)/1/2021-O/o US (NLCPR)
Government of India
Ministry of Development of North Eastern Region
****

East Block-10,
Level-4, R.K. Puram
New Delhi - 110066
Dated 13.10.2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Arunachal Pradesh under NESIDS for F.Y. 2021-22.

The undersigned is directed to refer to subject mentioned above and to request you to kindly examine and intimate whether the following project proposals submitted by Government of Arunachal Pradesh is coverable under any scheme of your Ministry/Department, and/or if your Ministry/Department could fund this project. If not, kindly render your views/comments on the project proposals to this Ministry at the earliest but not later than within 7 days of issue of this O.M. Copy of concept note is enclosed:-

i. **C/o road from Kodum CO HQ to Bam Tri-junction 16.5 Km under West Siang district-Estimated cost Rs.20.00 crore**

ii. **C/o road from Marung Gika to Panior Bridge Point via Sarchgai, mate, Kusuk, and Pan-21 Km (SH: Widening, CD Work, Protection work, WBM, Carpeting and CC Drain) in Papum Pare district-Estimated Cost of Rs.20.00 crore**

(A. K. Pandey) 13.10.2021
Under Secretary to the Govt. of India
E-mail: akhilesh.pandey13@nic.in

Encl. As stated above.

To

i. Secretary, Ministry of Road Transport & Highways, Transport Bhawan, Sansad Marg,New Delhi,110001 (*secy-road@nic.in*)
ii. Secretary, Department of Rural Development, Ministry of Rural Development, Krishi Bhawan, Dr. Rajendra Prasad Road,New Delhi-110001 (*secyrd@nic.in*)
iii. Chief Executive Officer (CEO), Niti Aayog, Sansad Marg, Sandad Marg Area, New Delhi (*ceo-niti@gov.in*).

Copy to:

i. Deputy Secretary (IFD), MDoNER for scrutiny/comments.

ii. Superintending Engineer, Technical Wing, MDoNER for scrutiny/comments.

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GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF FINANCE, PLANNING & INVESTMENT
PLANNING & INVESTMENT DIVISION
BLOCK NO. 1, 4th FLOOR
A.P. SECRETARIAT::ITANAGAR

Dated, Itanagar, 8th October, 2021.

To

Shri S. D. Meena
Deputy Secretary,
Ministry Of Development of NE Region,
East Block-10 (Level-IV),
R. K. Puram,
New Delhi-110066

Sub: **Forwarding of Concept papers of project proposals included in Priority List for NESIDS 2021-22**

Sir,

In continuation to this office letter of even number dated 31st August, 2021, I am directed to forward herewith a Concept Papers for the following project prioritized for funding under NESIDS during 2021-22.

1. C/o Road from Kodum CO HQ to Bam Tri-junction 16.5 Km under West Siang district – Estimated cost Rs. 20.00 crore.

2. C/o Road from Marung Gika to Panior Bridge Point via Sarchgai, Mate, Kusuk, and Pan – 21 km (SH: Widening, CD Work, Protection work, WBM, Carpeting and CC Drain) in Papum Pare district - Estimated cost of Rs. 20.00 crore.

This is for your kind information and further necessary action please.

Yours faithfully,

Encl: - As stated above.

Signed by Punyendu Mishra
Date: 12-10-2021 12:27:19
Reason: Approved

(Punyendu Mishra)
Director (Project Coordination)

Copy to:

1. PS to Commissioner (PWD), Govt. of Arunachal Pradesh, Itanagar.
2. PS to Commissioner (P&I), Govt. of Arunachal Pradesh, Itanagar.
3. PA to Secretary (P&I), Govt. of Arunachal Pradesh, Itanagar.
4. The Chief Engineer, PWD (CZ-B/WZ/SID&P), Govt. of Arunachal Pradesh, Itanagar for information.
5. Office copy.

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GOVERNMENT OF ARUNACHAL PRADESH
SECRETARIAT PWD (WORKS) BRANCH
ITANAGAR.

No. SPWD/W-522/2021 /1068 Dated Itanagar the 8th October, 2021

To

The Secretary Planning,
Govt. of Arunachal Pradesh
Itanagar.

Sub:- Submission of Concept Paper under NESIDS 2021-22.

Sir,

I am directed to forward herewith a 1(One) No. of Concept Paper (in triplicate) under NESIDS Scheme in respect of Aalo Division under CE (CZ-B) PWD, Pasighat as mentioned below-:

Sl No.	Name of Work	Division	Sanction Amount
1.	Construction of Road from KODUM CO Hqt to Bam Tri-junction 16.50 km under West Siang District.	Aalo	Rs.2000.00 lac

Yours Faithfully,

08.10.2021

(Pesi Jilen)
Under Secretary, PWD
Govt. of Arunachal Pradesh
Itanagar.

Enclo;- As stated above

Dir. PC

JD(PC) - R+M

SE/IC

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GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE CHIEF ENGINEER::: WESTERN ZONE
PWD::: AP::: ITANAGAR::: 791 111

No. CEAP(WZ)/WC-19(NESIDS)/2021-22/829 Dated the Itanagar 30/Sept'2021

To,

The Director (Project Coordination)
Department of Finance, Planning & Investment Division
Govt. of Arunachal Pradesh
Itanagar.

Sub:- **Submission of concept paper under NESIDS 2021-22.**

Ref:- PLNG-25032/1/2021 NLCPR/NESIDS/SIDF-FPID Dated 03/09/2021

Sir,

In inviting reference to above, I am directed to submit Concept Paper under the project mentioned below for consideration under NESIDS during current financial year 2021-22 please.

Sl. No.	Name of Project	Estimate Cost (In Rs. Crore)	Remarks
1.	C/o Road from Marung Gika to Panior Bridge Point via Sarchgai, Mate, Kusuk and Pan - 21.00 Km (SH: Widening, CD work Protection Work, WBM, Carpeting and CC Drain) under NESIDS in Papum Pare District	20.00	NESIDS

Enclo:- As stated above.

Yours faithfully,

Surveyor of Works-III
For Chief Engineer (WZ)
PWD, AP, Itanagar.

Copy to:-
1. The Commissioner (PWD), PWD, AP, Itanagar for kind information.
2. The Chief Engineer, (SID&P), PWD, AP, Itanagar for kind information along with a copy of above.
3. The Superintending Engineer, Sagalee Circle PWD, AP, for information
4. The Executive Engineer, Sagalee Division PWD, AP Sagalee for information

Planning Dept. Dy. No. 9396 Dtd. 30-9-21

JD(PC) 1/10 ASO (NLP) PUT UP. 6/10

Surveyor of Works-III
For Chief Engineer (WZ)
PWD, AP, Itanagar.

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GOVERNMENT OF ARUNACHAL PRADESH
PUBLIC WORKS DEPARTMENT

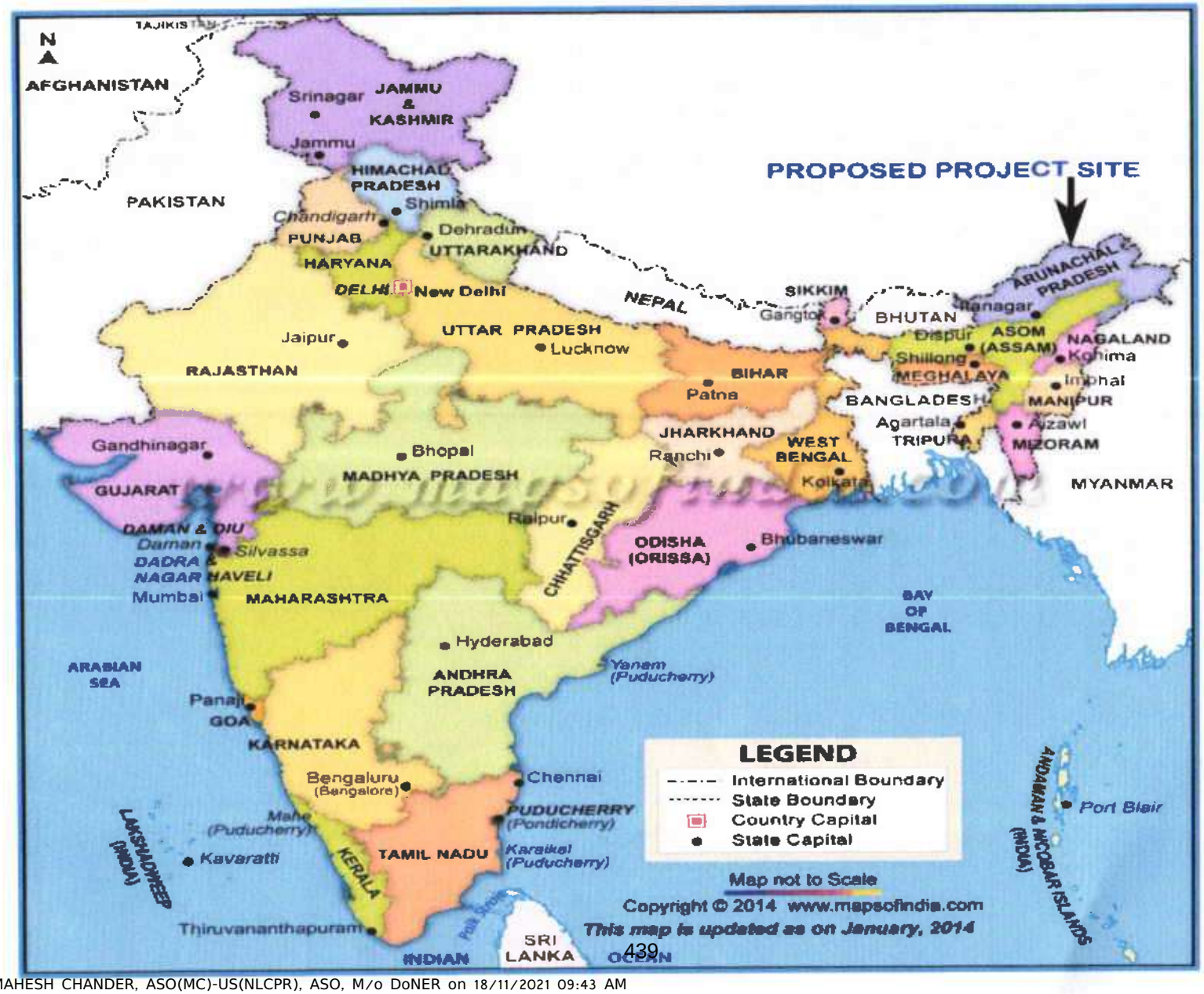
OFFICE OF THE CHIEF ENGINEER
CENTRAL ZONE-B, PWD, A.P, PASIGHAT

CONCEPT PAPER

Name of Work	:	Construction of road from Kodum CO Hqr to Bam Tri-junction 16.50 Km under West Siang District.
Estimated Cost	:	**₹. 2000.00 Lakhs.**
Head of Account	:	**NESIDS (2021-2022)**

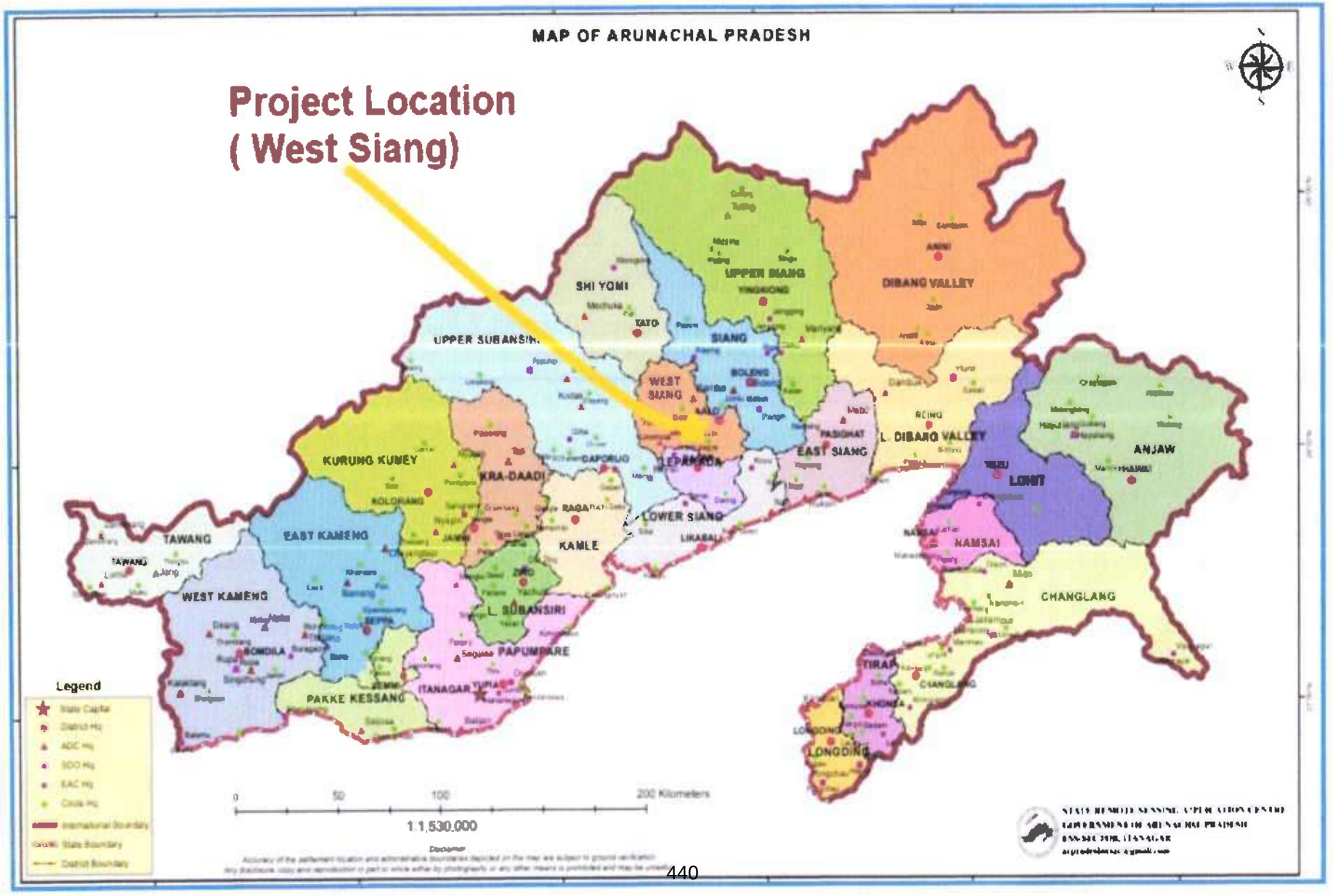
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PROPOSED PROJECT SITE LOCATION

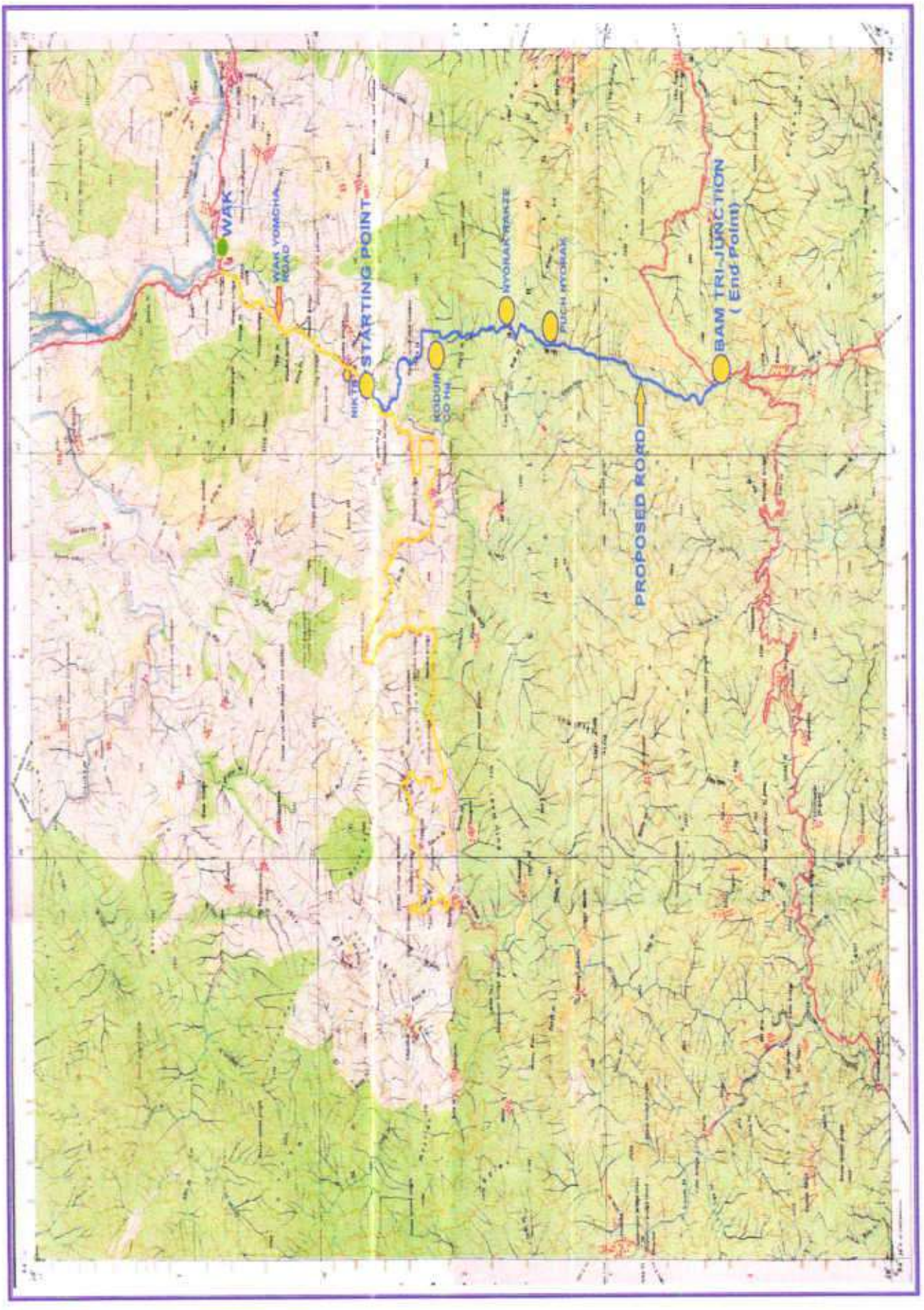


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PROJECT LOCATION IN ARUNACHAL PRADESH (Map of A.P)

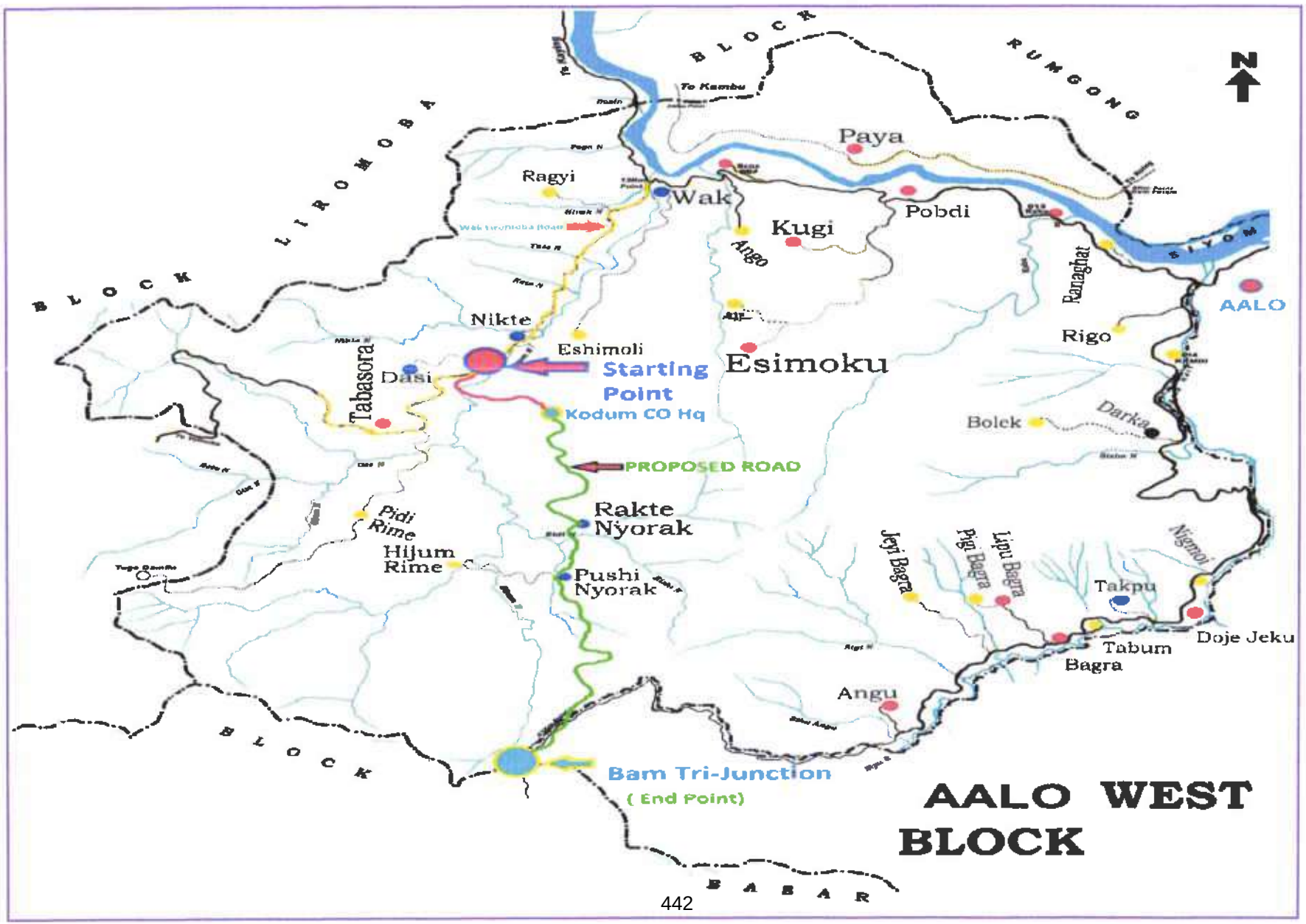


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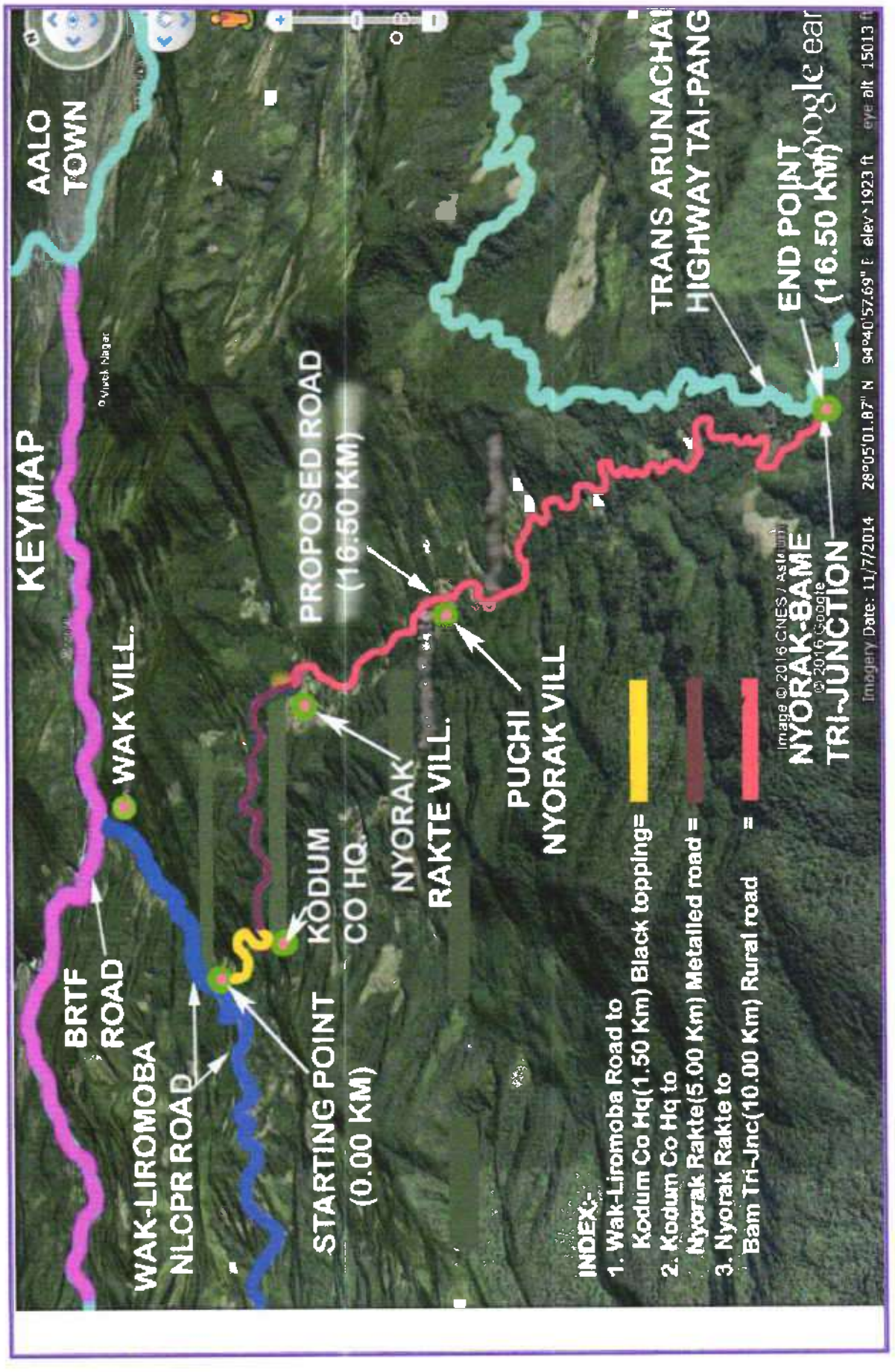
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AALO WEST BLOCK MAP



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KEY MAP



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GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE EXECUTIVE ENGINEER:: AALO PW DIVISION
AALO A.P.

NON – DUPLICITY CERTIFICATE

This is to certify that the work **"Construction of road from Kodum CO Hqr to Bam Tri-junction 16.50 Km under West Siang District"** is not yet sanctioned and there is no parallel work or project being taken up by State Government department or NGO through state budgetary grant or centrally aided project as on date.

Executive Engineer
Aalo Division, PWD. A.P.

(Er. Dugjum Lona)
Executive Engineer,
Aalo:: PWD,Division, A.P.Aalo

(Er. Duggum Ete)
Chief Engineer
Central Zone-B, PWD, Pasighat,A.P.

Chief Engineer
Central Zone-B,
PWD, A.P, Pasighat

Countersign by:-

Commissioner (PWD),
Govt. A.P. Itanagar.

Commissioner (PWD)
Govt of Arunachal Pradesh
Itanagar

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CERTIFICATE REGARDING MANDATORY DEDUCTION OF GST, ROYALTY ETC AND DEPOSITING IN STATE EXCHEQUER THROUGH TREASURY CHALLAN THEROF.

This is to certify that I being the DDO of Aalo Division, P.W.D, A.P, Aalo shall deduct the admissible amount of GST, TDS, Royalty, Income Tax etc. from the billing amount after Approval/Sanction of the estimate/scheme **"Construction of road from Kodum CO Hqr to Bam Tri-junction 16.50 Km under West Siang District"** and shall deposit in Government Revenue Head through Treasury Challan in time. Copy of the Treasury Challan shall be furnished to respective Department/Offices including Finance Department.

Place: Aalo

Date: 15/09/2021

Executive Engineer
Aalo Division, PWD. A.P.

Signature of the Executing Office/DDO
Name- Er. Dugjum Lona.
Designation: Executive Engineer.
Aalo PW Division,A.P.

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GOVERNMENT OF ARUNACHAL PRADESH
PUBLIC WORKS DEPARTMENT
ITANAGAR, ARUNACHAL PRADESH.

CERTIFICATE OF UNDERTAKING

This is to certify that the state government will undertake proper maintenance and repair (M &R) of the project after it is developed under this scheme.

Place : Aalo

Date :15/09/2021

Executive Engineer
Aalo Division, PWD, A.P.

(Er. Dugjum Lona)
Executive Engineer
Aalo P.W Division, A.P

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GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE EXECUTIVE ENGINEER:: AALO PW DIVISION
AALO A.P.

CERTIFICATE

This is to certify that the various levels and side slope angles for computation of earth work in formation/widening has been verified by me at the site. It is also to certify that there shall be no variation in cost of the project on this account.

Place : Aalo

Date : 15/09/2021

Executive Engineer
Aalo Division, PWD. A.P.

(Er. Dugjum Lona)
Executive Engineer
Aalo P.W Division, A.P,

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GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE EXECUTIVE ENGINEER::AALO PW DIVISION
AALO,A.P

ENCUMBRANCE FREE CERTIFICATE

This is to certify that the work "**Construction of road from Kodum CO Hqrs to Bam Tri-junction 16.50 Km under West Siang**"(5054 R&B- NESIDS), being an improvement of existing road, requires no forest clearance and is free from any encumbrance.

Place: Aalo
Date: 15/09/2021

(Er. Dugjum Lona)
Executive Engineer
Aalo: PWD Division, Aalo A.P.

Chief Engineer
Central Zone-B,
PWD Pasighat (A.P.)

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GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE EXECUTIVE ENGINEER::AALO PW DIVISION
AALO,A.P

Availability of Quarry

This is to certify that a government notified quarry is available within 20 Km from the site of the work "**Construction of road from Kodum CO Hqrs to Bam Tri-junction 16.50 Km under West Siang**"(5054 R&B- NESIDS).

Place: Aalo
Date: 15 /09/2021

(Er. Dugjum Lona)
Executive Engineer
Aalo: PWD Division, Aalo A.P.

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DEPARTMENT OF PLANNING & INVESTMENT
GOVERNMENT OF ARUNACHAL PRADESH
BLOCK NO. 1, CIVIL SECRETARIAT
ITANAGAR

GEOTAGGED REPORT

No.: NEISIDS/Public Works Departments/81827

Date of Geo-tagging: 2021-09-19 08:52:03

Project Details

Department Name: Public Works Departments	
Project Name: Construction of road from Kodum CO Hqr to Bam Tri- junction 16.50 Km under West Siang District	
Allocation Order No.: Memo No. PD/NESIDS/01/2021-22 Dated- 31-08-2021	
Funding Agency: NEISIDS	**Type:** Road

Geo Tagging Information

District Name	Circle Name	Geo Coordinates	
Leparada	Basar	**Latitude:** 28.050842	**Longitude:** 94.677032

Project Description

VISIT - 1 : 2021-09-18 16:05:34

Description
New project






Field Executive Details

Name: doba phadu	**Mobile No.:** 8731814608
Email ID: dobapadu07@gmail.com	

**** This Report is electronically generated and no signature is required.*

Report Generation Date: Mon, Sep 20, 2021 10:46 AM

CONCEPT PAPER.

1. **Name of the Project** : Construction of road from Kodum CO Hqr to Bam Tri-junction 16.50 Km under West Siang District

2. **Estimated cost (₹. in Lakhs)** : **₹. 2000.00 lakhs** i/c Centages. The line estimate has been worked out based on APSR 2021 for R & B.

3. **Location of project** : **Latitude** Starting Point : 28°11'46''N
End Point : 28°02'03''N

Longitude Starting Point : 94°44'00''E
End Point : 94°44'42''E

Topo sheet reference: **82 L/12**

4. **Anticipated date of Completion of the project** : The project is anticipated to be completed within two years subject to timely sanction and fund provision.

5. **Phasing of fund** :

Year	Financial (in Crore)	
2021-22	8.00	(40%)
2022-23	12.00	(60%)

6. **Target date of completion** : **31st March 2023** subject to timely sanction and fund provision.

7. **Design & Scope** : The proposed road shall be of Major District Road (MDR) standard with 10.00 m road width, G.S.B- 5.50 m width & 150.00 mm thick, WBM-II-5.50 m width ,WBM-III-5.50 m width, & carpeting-40.00 mm thick and 3.75 width suitable for class-A & 70R loading. All specifications in construction works shall be conforming to IRC codes, MORTH & CPWD standard. The main scopes considered are widening, GSB, WBM, BC, bridges, CD structures and side drains.

8. **Background of the project** : The all-round development of the state depends largely on its road infrastructure. With this objective, the state government is planning to undertake major development in the road sector. The vision has been well highlighted in the Arunachal Pradesh state road (Regulation & Development) Act, 2015. The top priority has been given to the inter district connectivity and inter-connectivity of administrative centers. The state government vide its notification No. SPWD/W-573/NH/2009-10/391, Dated 02/08/2019 has notified the list of 2083 roads under ODR category to be developed on priority basis. The proposed road has been notified in Sl. No 1341. Apart from providing better connectivity to Kodum-Nikte CO Hq, the project also aims to provide a better and shorter alternate inter district connectivity between Aalo the distict Hq of West Siang District and Basar the district

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Hq.of Leparada District. Out of 16.50 Km, widening and sub base layer for 6.50 km and black topping of 1.50 Km has been completed through SIDF'2017-18. The remaining 10.00 Km is a PMGSY road with average formation with of 5.00 m and carriage width of 3.00 m. The up-gradation and geometric improvement of 10.00 Km road from Nyorak-Rakte to Bam Trijunction (PMGSY road) and BT of 15.00 Km road from Kodum CO Hq to Bam- Trijunction has been proposed in this concept.

9. Project Objectives : This road provide connectivity to four remote villages i.e. Puch Nyorak, Rakte Nyorak, Berom Rime & Pidi Rime and once completed, this road will shorten the length between West Siang District Hq (Aalo) and Lepa Rada District Hq (Basar) by 9.00 Km.

Further, on successful implementation, the project will reduce the length between State Captital (Itanagar)/Assam and 10 (ten) administrative centers- Yomcha, Liromoba, Darak & Kamba of West Siang District, Kaying & Payum of West Siang District and Tato, Monigong, Pidi & Mechukha of Shi Yomi District by 36.00 Km. It will also shorten the length of military bases at Kaying, Menchuka & Monigong with Assam by 36.00 Km.

Due to paucity of fund, up-gradation of this road to required standard and desired geometrics could not be taken up. The present road condition with 2.50 cm thick BT surface course, WBM base course and average formation width of 5.00 m doesn't seem to cater the need of fast growing traffic. As per present traffic intensity the existing carriage width and its pavement thickness is quite inadequate. Therefore, widening and strengthening of this road is essential. Furthermore, non- maintenance of road since its construction, this all weather rural road now became fair weather road which is not fit for traffic movement during monsoon period. Hence improvement of this road is a need of the hour.

10. Target Beneficiaries : The project shall direct benefit to the people of four districts- West Siang, Lepa Rada, Siang & Shi Yomi District and five Assembly Constituency with a projected combined population of 112,274 (2011 Census)

The project aims to uplift the overall development of the weaker section.

11. Project Beneficiaries : The project shall be implemented by state PWD department as the project implementation through public-private partnership and involvement of NGOs in the projects has not been experimented in the state on large scale.

12. Legal Framework : The project shall be implemented by inviting tender within the legal framework of CPWD & MoRTH guidelines.

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13.	**Environment impact Assessment**	: The proposed road is a improvement work of existing road network, hence the issue of land acquisition, forest clearance, rehabilitation & resettlement and diversion of forestland does not arise. The project is unlikely to have any adverse impact on environment.
14.	**Ongoing initiative**	: There are no other similar ongoing initiatives taken up by the Government or other Non-Governmental Organizations in this sector. Hence, duplication of the Project does not arise.
15.	**Technology Issue**	: The project shall be implemented as per MoRTH specifications and IRC codes.

16. **Management Arrangement**

1. Project Implementation and monitoring arrangement	: The project shall be implemented through tender.
2. Nodal Officer	: Chief Engineer, Central Zone-B, APPWD, Pasighat.
3. Implementation team	: APPWD, Aalo Division, West Siang
4. Implementation Schedule	: 2 (two years)
5. Status of readiness of project	
(a) Forest Clearance	: Not required.
(b) Acquisition of land	: Not required.
(c) Any Other Clearance	: 3rd Party Monitoring

17. **Means of Finance and Project Budget**

1. Means of Finance	: NESIDS
2. Project Budget/Estimated Cost	: Rs. 2000.00 lakhs

3. Phasing of fund

Year	Financial (in Crore)	
2021-22	8.00	(40%)
2022-23	12.00	(60%)

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18.	**Time frame**	: Proposed zero date for commencement : 01/02/2021
19.	**Risk Analysis**	: No major risk is anticipated in project implementation.
20.	**Success Criteria**	: The project once sanctioned shall be implemented successfully with all targeted development objectives.
21.	**Financial and economic analysis**	: The project once completed will shorten the existing distance between State capital Itanagar and 10 administrative centers Yomcha, Liromoba, Darak & Kamba of West Siang District, Kaying & Payum of Siang District and Tato, Monigong, Pidi & Mechukha of Shi Yomi District by 36.00 Km. It will also shorten the length of military bases at Kaying, Menchuka & Monigong with Assam by 36.00 Km. The road is expected to provide direct connectivity to four remote villages -Puch Nyorak, Nyorak Rakte, Berom Rime & Pidi Rime and many other link routes are also connected through this road. It will be of great beneficial to users in saving their time and recourses in long run. In future this road can become an economic corridor connecting many commercial hub and tourism hotspots. The project shall be helpful in uplifting economical and social status of people by supporting economic growth and self employment generation, inter circle marketing & trading and will also boost in the improvement of economic activity with neighboring state, most importantly this route will serve as an alternate route to Aalo – Basar during the peak hour of construction for Trans Arunachal Highway, exclusively for Indian Defense movement to border areas.
22.	**Post completion sustainability including operation and maintenance of assets**	: After completion of the project, the asset created shall be maintained by keeping necessary fund provision under maintenance head as in practice in Arunachal Pradesh. Hence, this project shall be self-sustained after its completion in future.
23.	**Status of Administrative and Statutory Clearance from State / Central Government**	: The project is a improvement of existing road network. So administrative and statutory clearance is not required.

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24. **Readiness for Implementation of Project** : As land is available and the preliminary needful surveys have been done, the works shall be started within a time period of 3 month from the date of sanction.

25. **Rates** : The rates adopted in the Line Estimate are as per the latest Schedule of rates i.e APSR' 2021 for road and bridges.

26. **Cost** : The total cost of work has been worked out to be Rs. **20.00 Crores [Rupees Twenty Crore]** only i/c 1 % Contingencies, 1% quality control.

27. **Method** : Departmentally/Contract

28. **T & P** : No special T & P is proposed in this estimate.

Executive Engineer
Aalo Division, PWD. A.P.

Executive Engineer
PW Division, Aalo, A.P.

Superintending Engineer
Aalo Civil Circle, PWD, Aalo,A.P.

Surveyor of Works
Central Zone-B, PWD, Pasighat, A.P.

Superintending Surveyor of Works
Central Zone-B, PWD, Pasighat, A.P.

Chief Engineer
Central Zone-B, PWD, Pasighat, A.P.

Chief Engineer
Central Zone-B,
PWD, A.P. Pasighat

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LINE ESTIMATE (Cost Abstract)

Circle : Aalo — Division : Aalo

Branch : R & B — Sub - Division : II

Name of Work :- Construction of road from Kodum CO Hqr to Bam Tri-junction 16.50 Km under West Siang District.

Sl.No	Items	Qty	Unit	Rate (In Lakh)	Amount (in lakh)	Remarks
1	**Earth work**					
1.1	Formation Cutting/Widening	10.00	Km	33.00	330.00	
2	**Pavement**					
2.1	GSB Grade- (150.00 mm thick)	10.00	Km	30.00	300.00	
2.2	WBM-II	10.00	Km	13.00	130.00	
2.3	WBM-III	15.00	Km	15.00	225.00	
2.4	BC (3.75 m Width, 40.00 mm thick)	15.00	Km	30.00	450.00	
3	**Cross Drainage**					
3.1	Slab Culvert- 1.00 m span	30.00	Nos	5.20	156.00	
3.2	Slab Culvert- 1.50 m span	7.00	Nos	5.70	39.90	
3.3	Slab Culvert- 2.00 m span	6.00	Nos	6.20	37.20	
3.4	Slab Culvert- 4.0 M span	1.00	Nos	18.00	18.00	
4	**Bridges**					
4.1	RCC Bridge -10 m Span 1 No	10.00	m	13.00	130.00	
5	**Protection work**					
5.1	Retaining Wall/Breast Wall (Ht.- 3.00 m to 5.00 m)	250.00	m	0.40	100.00	
6	**Road side drain**					
6.1	CC Drain	1.00	Km	32.00	32.00	
7	**Miscellaneous**					
7.1	Traffic Sign Board & Road marking	16.50	Km	0.80	13.20	

Total ₹.	**1961.30**	
Add 1% Contingencies	19.61	
Add 1% Quality Control	19.61	
Grand Total ₹.	**2000.52**	
Say ₹.	**2000.00**	**Lacs**
	20.00	**Crores**

Executive Engineer
Aalo Division, PWD. A.P.

Executive Engineer,
PW Division, Aalo

Superintending Engineer,
Aalo Civil Circle :: PWD,A.P.Aalo

Surveyor of Works,
Central Zone-B, P.W.D, Pasighat

Superintending Surveyor of Works,
Central Zone-B,P.W.D, Pasighat

Chief Engineer,
Central Zone-B,P.W.D, Pasighat

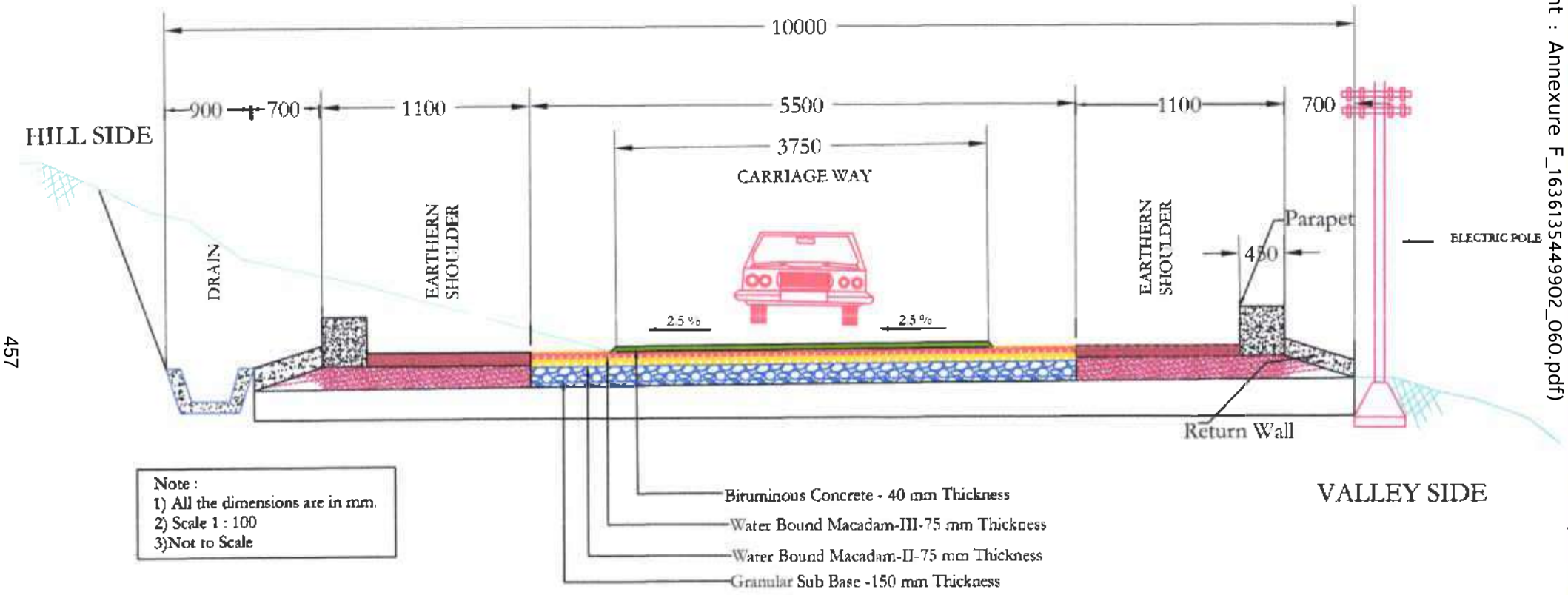
Chief Engineer
Central Zone-B,
PWD, A.P, Pasighat

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TYPICAL CROSS SECTION OF PAVEMENT



Note :
1) All the dimensions are in mm.
2) Scale 1 : 100
3)Not to Scale

Junior Engineer,
Sub-Division-II, PWD, A.P, Aalo

Assistant Engineer
Sub-Division-II, PWD, A.P, Aalo

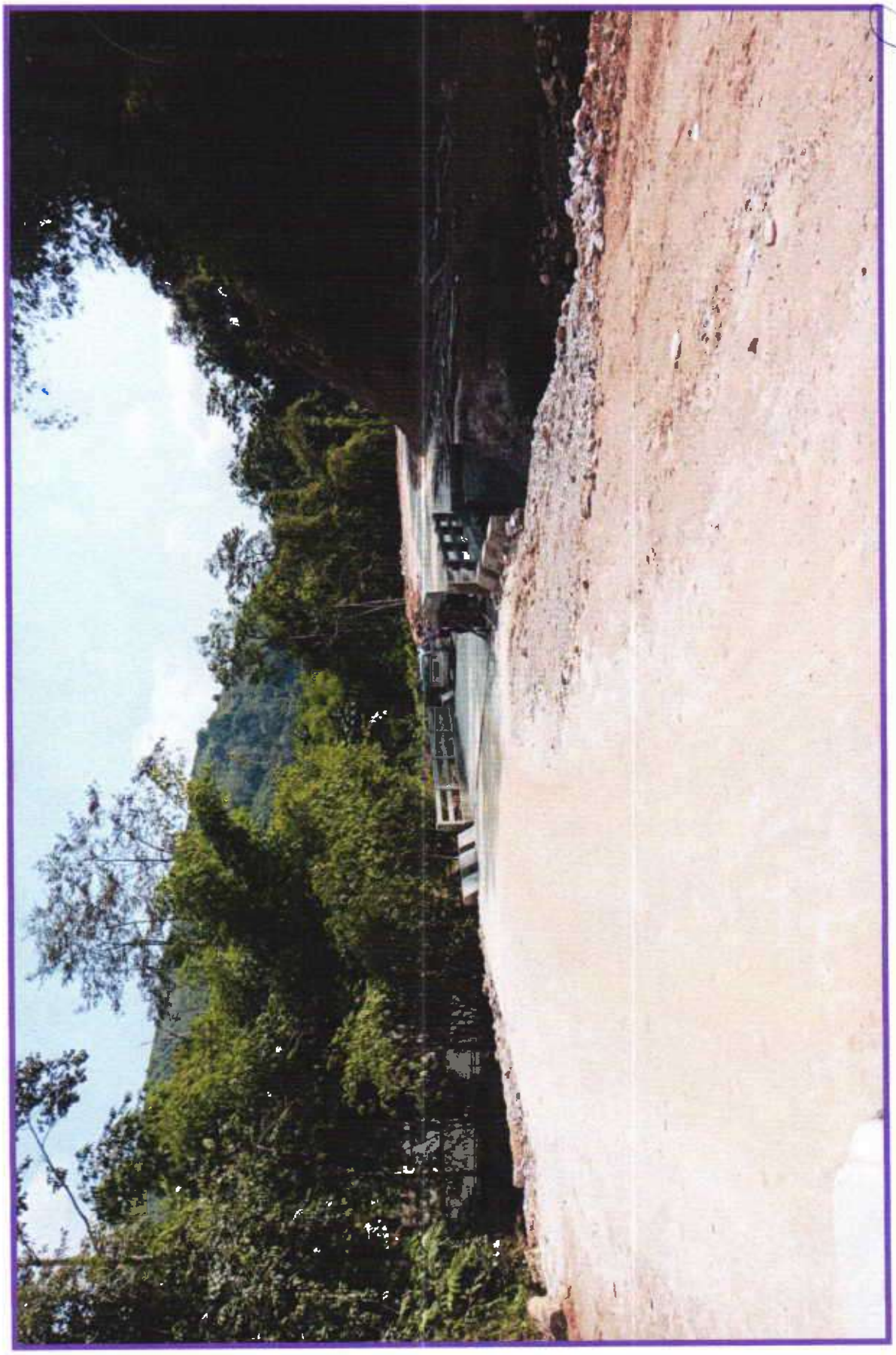
Executive Engineer
Aalo Division, PWD, A.P.
Executive Engineer
Aalo Division, PWD, A.P, Aalo

Executive Engineer
Aalo Division, PWD, A.P.



Present Status of road from Chainage 0.00 Km to1.50 Km completed upto BT

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Present Status of road from Chainage 1.50 Km to 6.50 Km completed upto WBM-II

Executive Engineer
Aalo Division, PWD, A.P.

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Present Status of road from Chainage 6.50 Km to16.50 Km PMGSY standard

Executive Engineer
Aalo Division, PWD, A.P.

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GOVERNMENT OF ARUNACHAL PRADESH
PUBLIC WORKS DEPARTMENT

CONCEPT PAPER

Name of Work	***:***	***C/o Road from Marung Gika to Panior Bridge Point via Sarchgai, Mate, Kusuk and Pan - 21.00 Km (SH: Widening, CD Work, Protection Work, WBM, Carpeting and CC Drain) under NESIDS in Papum Pare District.***
Estimated Cost Put to Tender:		***Rs. 20.00 Crore***
Head of Account	***:***	***NESIDS***

OFFICE OF THE EXECUTIVE ENGINEER
SAGALEE DIVISION,
PWD::AP::SAGALEE

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NON-DUPLICITY CERTIFICATE

This is to certify that the project **"C/o Road from Marung Gika to Panior Bridge Point via Sarchgai, Mate, Kusuk and Pan - 21.00 Km (SH: Widening, CD Work, Protection Work, WBM, Carpeting and CC Drain), under NESIDS** of Sagalee Division, in Papum Pare District, is not sanctioned/taken-up/proposed to be taken-up for funding under any other sources of the central or State Government or NEC or under any other programmes and plans.

Dated- **08/09/2021**

Place: **Sagalee**

Executive Engineer
Sagalee Division
PWD, AP, Sagalee
Executive Engineer
Sagalee Division
PWD, AP, Sagalee

Superintending Engineer
Sagalee Circle, PWD
AP, Camp-Naharlagun
Superintending Engineer
Sagalee Civil Circle
PWD, AP, Camp-Naharlagun

Chief Engineer
Western Zone
PWD, AP, Itanagar
Chief Engineer
Western Zone, PWD, A.P.
Itanagar

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ANNEXURE-A

PROJECT PROPOSAL-PROJECT APPRAISAL CHECKLIST, UNDER NESIDS, DURING 2021-22.

1.	Name of Project	:-	**C/o Road from Marung Gika to Panior Bridge Point via Sarch Gai, Mate, Kusuk & Pan -21.00 Km. (SH: Widening, CD Work, Protection Work, WBM, Carpeting & CC Drain) under NESIDS in Papum Pare District.**
2.	Proposed Location	:-	**Marung Gika** (Starting Point) **Latitude :- 27 26' 24.69" –N** **Longitude :- 93 36' 22.43" -E** **Panior Bridge Point** (End Point) **Latitude :- 27 28' 47.90"–N** **Longitude :- 93 32' 36.83" -E**
3.	Proposed amount (as per the concept paper)	:-	**Rs. 20.00 Crore.**
4.	Viability/priority of project as per the department's requirement.	:-	**Yes, the project is viable and the prioritized project of the department as the road will provide all weather connectivity to the farthest administrative HQ of the Papum Pare District.**
5.	Whether the proposed amount is genuine as per technical standards? If not, please indicate the technically correct amount for the project.	:-	**Yes**
6.	Number of the people likely to be benefited from the project.	:-	**15,000 (Fifteen thousand)**
7.	Non- duplicity	:	**Enclosed**
8.	Remarks / any other comments	:	**To provide all weather road connectivity to EAC HQ Sakiang from ADC HQ. Sagalee and to promote the tourism potential of the area.**

Executive Engineer
Sagalee Division
PWD, AP, Sagalee

Executive Engineer
Sagalee Division
PWD, AP, Sagalee

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CONCEPT PAPER FOR THE PROJECT PROPOSAL UNDER NESIDS, DURING 2021-22.

1.	Name of project and its location.	:	**C/o Road from Marung Gika to Panior Bridge Point via Sarch Gai, Mate, Kusuk & Pan -21.00 Km.** (SH: Widening, CD Work, Protection Work, WBM, Carpeting & CC Drain) **under NESIDS** in Papum Pare District, Arunachal Pradesh.
2.	Estimated cost (₹ in lakh) alongwith line estimate.	:	The completion cost of the project is estimated at **Rs. 20.00 Crore** vide Annexure-I.
3.	Anticipated time frame of completion of the project.	:	2 (Two) years.
4.	Year wise physical and financial phasing.	:	Year / Financial / Physical 2021-22: ₹ 12.00 Crore / 60% 2022-23: ₹ 8.00 Crore / 40% **Total** / **20.00 Crore** / **100%**
5.	Problems to be addressed through the project at local/state level giving the nature and magnitude of problems.	:	Sakiang is one of the oldest EAC HQ of Papum Pare District situated 165.00 Km away from District Head quarter Yupia. At present, Sakiang is one of the most important place in Papumpare District on the tourism development potential which falls under Sagalee ADC HQ. This proposed road is to connect EAC HQ. Sakiang from Sagalee ADC HQ. with all weather road for a total length of 21.00 Km. **This Proposed road starting from "Marung Gika and terminates at Panior Bridge point via Sarch Gai, Mate, Kusuk & Pan-21.00 Km",** will connect EAC HQ. Sakiang which is presently a Fair weather road. The Formation cutting of road stretch from Marung Gika to Sarch Gai 2.00 Km & Pan to Panior Bridge point- 4.00 Km was constructed during 2011-12 & 2016-17 under the scheme SPA/(state plan) respectively. Due to scarcity of fund, other items of work like Cross drainage, protection work, pavements & CC drain could not be taken up till date. Further, the Road stretch from Sarch Gai to Pan -15 .00 Km was also constructed up to the WBM-I only under NLCPR. Therefore, people of Silsango and Mengio area are facing lots of difficulties especially in rainy season due to non- existence of all-weather road. Thus, construction of road from Marung Gika to Panior bridge point with all proposed sub heads work is urgently required to provide all weather connectivity to the Sakiang EAC HQ. **Beside this, the Project will promote agro-tourism and eco-tourism in Papum Pare District as the area is known for huge Agriculture & Horticulture potential.**

			Papum Pare district also has a huge potential of home stays due to its proximity to Itanagar owing to rise of domestic & foreign tourists, due to its rich flora and fauna. **Farmers are also producing large quantity of large cardamom and orange but due to connectivity problem they are unable to bring them to the market. This project will provide them market linkage to the farmers.** **This project falls under Itanagar-Ziro- Daporijo-Aalo- Pasighat tourist circuit.** Hence, this **proposal is initiated** vide letter No. PLNG-25032/1/2021NLCPR/NESIDS/SIDF-FPID Dtd.-03/09/2021 of Director (Project Coordination), Finance, Planning and Investment Department, Govt. of Arunachal Pradesh, Itanagar, **under NESIDS** 2021-22. This proposed road will connect very important villages like Marung gika, Sarchgai, Mate, Kusuk under Silsango Circle & Pan, Tacha under EAC (HQ) Sakiang. Not only this but so many other nearest villages like Nargang, Maching , Domisiram, Jajing tapo & Bong etc, will also be benefited from this road.
6.	Development objectives of the proposals.	:	**The objectives of the proposal are :** ❑ To provide all weather connectivity to the un-connected villages and Administrative centres of Sakiang, Mengio CD Block. ❑ To prevent large scale migration of rural populous to the urban towns. ❑ To promote Agricultural, Horticultural, Forestry and Dairy farming for socio-economic upliftment of the local people. ❑ To enhance the quality of life in Education, health and tourism sectors in the area.
7.	Benefits likely to accrue quantified in terms of populations and other parameters.	:	A population of about 15000 Nos. of Sakiang C.D. Block (Mengio) will be benefited directly by this project. The whole population of the Papum Pare District numbering 250000 including Capital Complex will be benefited indirectly by this project. There will be tremendous boost in Agriculture, Horticulture, forestry, Dairy farming, education, health and Tourism sectors of the region and promoting Trade & Commerce with neighbouring State of Assam.
8.	On going initiatives taken by the State Government and manner in which duplication will be avoided and synergy created through the proposed project.	:	No initiations could be taken up by the State government on account of acute resource constraints.
9.	Economic parameters justifying the projects for funding and socio-economic analysis in case of social infrastructure projects.	:	As narrated in Para 6, funding for the project is quite justifiable and socio-economic analysis may not be necessary.

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10	Status of administrative and statutory clearances from State/Central Government.	:	No forest and environmental clearance is required, since the proposal is for improvement of existing road and the project road passes through community land.
11	Readiness for implementation of the projects.	:	Project ready for implementation on receipt of sanction and fund.
12	Post-completion sustainability including operation and maintenance of assets.	:	The project will be operated and maintained by P.W.D. Govt. of A.P. The maintenance cost of the road after its completion will be borne by the State Govt.

Executive Engineer
Sagalee Division
PWD, AP, Sagalee

Executive Engineer
Sagalee Division
PWD, AP, Sagalee

Superintending Engineer
Sagalee Circle, PWD
AP, Camp-Itanagar

Superintending Engineer
Sagalee Civil Circle
PWD, AP, Camp-Naharlagun

Chief Engineer
Western Zone
PWD: AP: Itanagar

Chief Engineer
Western Zone, PWD, A.P.
Itanagar

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GENERAL ABSTRACT OF COST - (LINE ESTIMATE)
(CPWD Code Para 330-332)

Name of work:- C/o Road from Marung Gika to Panior Bridge Point via Sarchgai, Mate, Kusuk & Pan -21.00Km, (SH: Widening, CD Work, Protection Work, WBM, Carpeting & CC Drain) under NESIDS in Papum Pare District.

State : **Arunachal Pradesh**
Branch: **B & R**

Division:- **Sagalee**
Sub Division:- **Mengio**

Item No.	Sub-heads & items of work	Quantity	Rate (in Lakh)	Per	Amount (in Lakh)	Remarks
1.00	**EARTH WORK**					
i)	(Widening)	3.00	10.00	Km	30.00	**Rate based on APSR 2021 (R & B)**
ii)	Re-alignment	1.50	35.00	Km	53.00	
2	**CROSS DRAINAGE**					
i)	Slab culvert 1.00m span.	11	7.50	Each	83.00	
ii)	Slab culvert 2.00m span.	12	11.00	Each	132.00	
iii)	Slab culvert 4.00m span.	1	20.00	Each	20.00	
iv)	Slab culvert 6.00m span.	1	22.00	Each	22.00	
3	**PROTECTION WORK**					
i)	RCC R/Wall (4.00M Ht)	500.00	0.60	Mtr.	300.00	
ii)	RCC B/Wall (3.00M Ht)	300.00	0.50	Mtr.	150.00	
4	**PAVEMENTS**					
i)	SH: Preparation of (Sub-grade)	5.955	3.00	Km	18.00	
ii)	SH: GSB-I	5.955	14.00	Km	83.00	
iii)	SH: WBM-II	21.000	11.00	Km	231.00	
iv)	SH: WBM-III	21.000	10.00	Km	210.00	
v)	SH: Carpeting	21.000	25.00	Km	525.00	
5	**SH: CC Drain**	4.75	30.00	Km	143.00	
			TOTAL		**2000.00**	
				Say	**20.00**	**Crore**

Executive Engineer
Sagalee Division
PWD::AP::Sagalee

Superintending Engineer
Sagalee Circle
PWD::AP::Camp-Naharlagun

Chief Engineer
Western Zone
PWD::AP::Itanagar

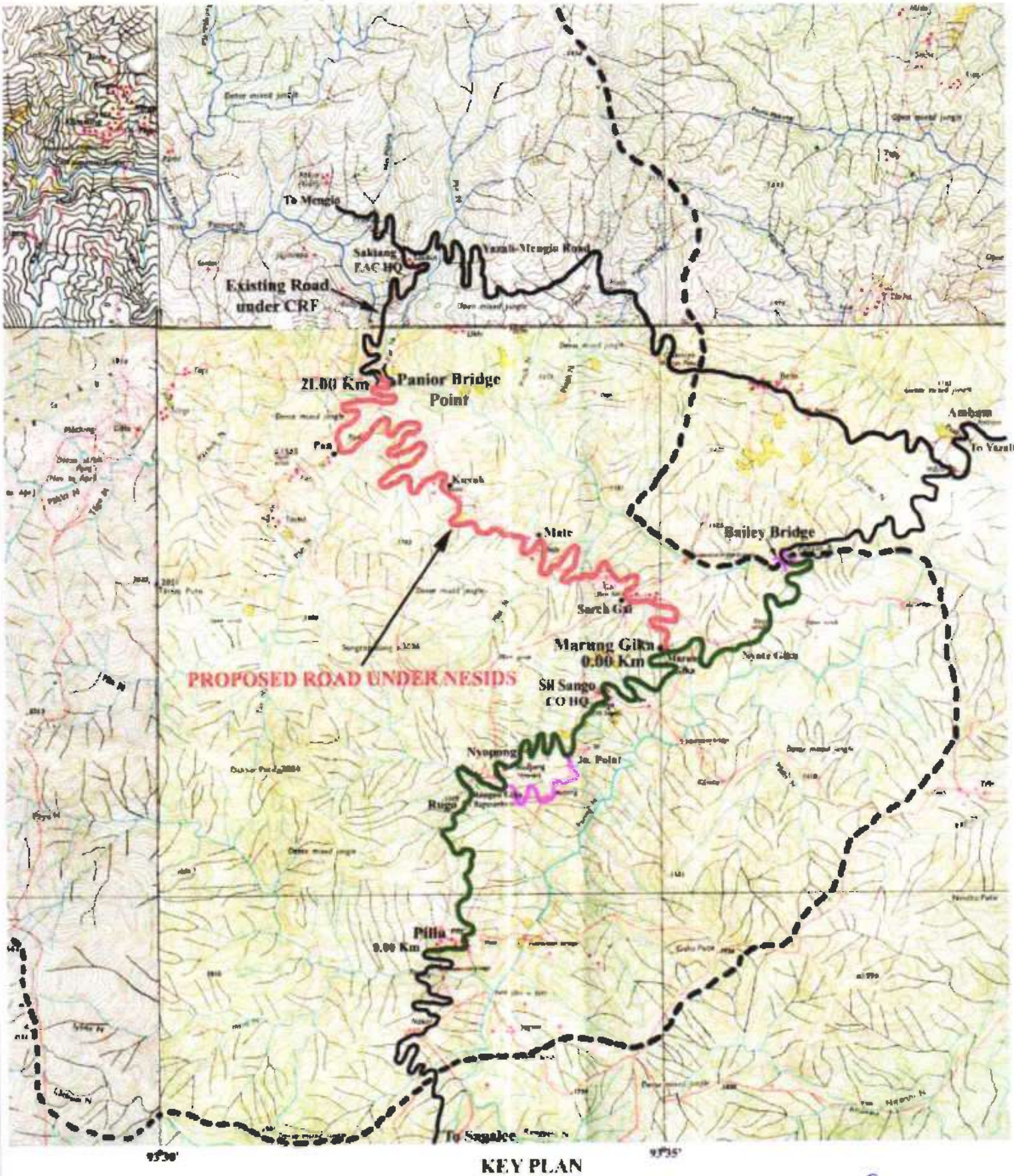
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Name of Work : Construction of Road from Marung Gika to Panior Bridge Point via Sarch Gai, Mate, Kusuk & Pan (21.00 Km) (SH: WBM, Cross Drainage, R/wall, B/wall, CC drain & Carpetting).



KEY PLAN

LEGEND

1. **EXISTING ROAD**
2. **PROPOSED ROAD UNDER NESIDS**
3. **PROPOSED ROAD UNDER PMGSY**
4. **ROAD UNDER STATE PLAN**

Sd/-
(ER. A.K. MISHRA)
JUNIOR ENGINEER
MENGIO SUB DIVISION
PWD AP MENGIO

Sd/-
(ER. BENGIA TAGGU)
ASSISTANT ENGINEER
MENGIO SUB DIVISION
PWD AP MENGIO

(ER. NARAM TAKAR)
EXECUTIVE ENGINEER
SAGALEE DIVISION, PWD,
AP SAGALEE.

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region
.....

Janpath Bhawan, Middle"B" Wing,
6th Floor, Janpath, New Delhi.
Dated: 14.10.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Arunachal Pradesh under North East Special Infrastructure Development Scheme (NESIDS) F.Y.2021-22.

Please refer to your Office Memorandum No. NESIDS-11014(11)/1/2021-O/o US (NLCPR) dated 13.10.2021 vide which Project Proposal of the following projects have been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of Road from Kodum CO HQ to Bam Tri-Junction 16.5 Km under West Siang district.	20.00	(a) The composition of Road Pavement considered in the Concept note is not as per IRC. The provision of layers of GSB (150mm), WBM-II (75mm), WBM-III (75mm) and BItumuminous Concrete (40mm) has been taken but as per IRC code, layers of GSB, WMM, BM & BC is provided. State Govt. may be asked to submit the basis of considering the composition of Road Pavements. (b) The MSA & CBR value is not mentioned. (c) In Typical Cross Section, the width of BC is taken as 3.75 m whereas width of GSB and WBM is taken as 5.50m. State Govt. may be asked to clarify. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify. (e) The provision @1.00% on account of contingency has been taken. Program division may like to see. (f) The provision @1.00% on account of Quality Control has been taken. The provision of Quality Control @ 1% is to be considered only when 3rd Party Quality Assurance has been deployed at the work.
2.	Construction of road form Marung Gika to Panior Bridge Point via Sarchgai, mate, Kusuk, and Pan-21 Km (SH: Widening, CD Work, Protection work, WBM, Carpeting and CC Drain) in Papum Pare district.	20.00	(a) No specifications i.e thickness and width of different layers of Road Pavement have been mentioned. (b) The composition of Road Pavement considered in the Concept note is not as per IRC. The provision of layers of GSB-I, WBM-II, WBM-III and Carpeting has been taken but as per IRC code, layers of GSB, WMM, BM & BC is provided. State Govt. may be asked to submit the basis of considering the composition of Road Pavements.

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			(c) The MSA & CBR value is not mentioned. (d) It is not clear whether the weightage of the layers of exisiting road have been considered or not while preparing cost estimate. State Govt. may be asked to clarify.

This issued with the approval of Superintending Engineer (TW).

14/10/2021

(Parveen Kumar)
Executive Engineer (TW)

To

Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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DFA/115909 (Attachment : Annexure F_1636135449902_060.pdf)

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Government of India
Ministry of Road Transport & Highways
1 Transport Bhawan, Parliament Street, New Delhi - 110001

Dated: October, 2021

To,

The Under Secretary,
[Kind Attention: Shri A.K. Pandey]
Ministry of Development of North Eastern Region (DoNER),
East Block-10,
Level-4, RK Puram
New Delhi – 110 066
Email: akhilesh.pandey13@nic.in

Sub:-Project proposals -2 nos submitted by Government of Arunachal Pradesh under NESIDS for FY 2021-22 –Reply from MoRTH - reg.

Ref: OM no.NESIDS-11014(11)/1/2021-O/o US (NLCPR) dated 13.10.2021 received from Ministry of Development of North Eastern Region (DoNER).

Sir,

Please refer to your OM dated 13.10.2021 cited at reference submitting project proposals **"C/o road from Kodum CO HQ to Bam Tri-junction 16.5 km under West Siang district in the state of Arunachal Pradesh at an estimate cost of Rs.20.00 crores"** and **"C/o road from Marung Gika to Panior Bridge point via Sarchgai, mate, Kusuk, and Pan-21 Km (SH: Widening, CD work, protection work, WBM, carpeting and CC Drain) in Papum Pare district in the state of Arunachal Pradesh at an estimate cost of Rs.20.00 crores"** with a request to give views/comments on the same.

2. The concept proposal has been examined and following comments have been made:

Kodum CO HQ to Bam Tri-junction - 16.50 Kms - 20.00 crores

i. The project length mentioned as 16.50 Km, however, the improvement with Black top (with Bituminous concrete) is proposed in length of 15 km only (leaving 1.5 kms).
ii. An amount of Rs.3.30 crores (out of Rs.19.61 crores) has been proposed for Formation cutting in a length of 10 Kms without detail calculations, which is 17% of the total estimate cost, appears slightly on a higher side. Hence, the amount for formation cutting may be considered on the basis of detailed calculation along with drawings.
iii. Considering the proposed improvements and length of the proposal, the cost of the proposal appears to be justified (except formation cutting for Rs.3.30 crores). However, comments/views on the geometric improvements cannot be made without Plan & profile (P&P) of the project stretch.
iv. Project will beexecuted as per MoRTH specification and IRC codes/manuals as mentioned in the submitted concept paper. However, the comments/views on the concept paper cannot be made without

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detailed project report and P&P.

Marung Gika to Panior Bridge - 21.00 Kms - 20.00 crores

i. The thickness of the crust composition has not been mentioned in the submitted estimate.
ii. Considering the said stretch as state highways, the geometry of the stretch as seen from the submitted map is poor. Although, 1.5 km realignment has been proposed in the proposed estimate however, the same may not be sufficient to improve the geometry as per MoRTH guidelines, IRC codes & manuals. Accordingly, the comments on the geometry of the stretch cannot be made without DPR and Plan & profile of the proposed work.
iii. Considering the proposed improvements and length of the proposal, the cost of the proposal appears to be justified.
iv. The amount for pre-construction activities (Land Acquisition & Utility shifting), if any, has not been mentioned.

These issues is with the approval of competent Authority in Ministry.

Yours faithfully,
(Nakul Prakash
Verma)
Executive Engineer (Zone-V)
For DG (RD) & Special Secretary

Digitally Signed by Nakul Prakash Verma
Date: 27-10-2021 12:44:37
Reason: Approved

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ANNEXURE - T

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Manipur**

Name of Project: Construction of road connectivity, water and power facilities at Dzuko valley, Senapati District, Manipur.

Project Description/Summary (not exceeding 200 words): The Dzukou Valley is located at the border of the Indian states of Manipur and Nagaland. The valley is famous for its wide range of flower in every season. There is no proper approach road, public utility services. The project after implementation can fulfil the dreams of many Manipuri's and will add another feeder to Manipur Tourism.

	Stage 1: Retention/Selection of the Project					
1	**General Information**					
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2933.00 lakh				
1.2	**Whether lying in backward areas**	Not available				
1.3	**Sector:** (Physical infrastructure relating to _____(Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Tourism infrastructure				
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): Yes					
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Ministry.				
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	On completion of the assets, management would be entrusted to local Committee on PPP mode.				
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	Breakup of Major Components of the projects as per Concept Note (**figure in lakhs**)				
	Project Component & Estimate cost	**Qty.**	**Rate**	Unit	**Amount**	

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a	Construction of Road	15	8675000	Km	13.012
b	Construction of Steps with Steel railling	0.5	3167000	Km	0.158
c	Pucca culvert	8	150000	Nos.	0.12
d	Construction of Drain	3	9772000	km	2.932
e	Retaining wall	0.5	90945000	km	4.547
f	Vehicle parking				
	4 wheeler - 2 nos.	200	3167	Nos.	0.063
	2 wheeler - 2 nos.	100	3167	Nos.	0.032
g	Construction of Helipad	1	15000000	Nos.	1.5
h	Drinking water facility point	5	198600	Nos.	0.099
i	Solar Street lamps	100	98000	Nos.	0.98
j	Rain Shelter	8	25000	Nos.	0.02
k	Wooden bridge 120 feet	2	1200000	Nos.	0.24
				Total	23.703
	Add 12% GST				2.844
	Add 1% Labour Cess				0.237
	Add 0.25% VAT Charges				0.059
	Contingecy 2%				0.474
	Add agency charges 6.5%				1.541
	Add 2% Consultancy				0.474
	Grand Total				2933

1.7A	Out of above, SG's Contribution in the Project Cost, if any	Nil
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	Nil
1.8	Date of receipt of proposal/concept note from State Government (SG)	29.04.2021
1.9	Original	
1.10	Revised (if any)	
2	Is the project in question supported/coverable under any other scheme of Central or State Government	No
3	Normative allocation of SG and related details	Rs.119.76 Normative allocation. Available Balance Rs.66.17 cr.
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for	

	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)

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	IFD, MDoNER	17.05.2021	No comments received till date
	Technical Wing, MDoNER	17.05.2021	No comments received till date
	Ministry of Power	17.05.2021	17.07.2021
	Ministry of Housing & Urban Development	17.05.2021	No comments received till date
	Ministry of Jal Shakti	17.05.2021	No comments received till date
	Ministry of R&HW	17.05.2021	No comments received till date
	Ministry of Housing & Urban Affairs	17.05.2021	No comments received till date
	Ministry of RD	17.05.2021	No comments received till date
	Niti Aayog	17.05.2021	No comments received till date
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**		
7	**Important observations/comments of Prog. Division**		
	The project is aimed to provide infrastructures, public utility services, and connectivity from Maram to Dzukou valley and to promote one of the best tourism destinations and all to develop tourist hotspot. After completion of the project, the people of Manipur will be greatly benefited giving thrust to the tourism industry. After due scrutiny, the PD recommends the proposal for consideration in the IMC.		

27/10/21
(Dated Signature & Name of Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No	Name of line Ministry/IFD/ Technical Wing	Commens in brief	resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.07.2021 is as under:- (i) the project proposals sites/areas are currently electrified or not. In case, the grid connectivity is is available at the project area, it would be better to install the grid fed street ligh in place of solar lamps, which may not a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult. (ii) In case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/rellgious sites from the nearest grid. It would also boost the tourism at these places. (iii) Further, considering the geographic location of the state and the hudge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specification of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. neet to be ascertain before taking up the projects. (iv) It is also noted that the basis of cost estimates taken in the proposals have not been indicated.	Yet to be received	
2	Ministry of Housing & Urban Developmen t			
3	Ministry of Jal Shakti			
4	Ministry of R&HW			
5	Ministry of RD			
6	Niti Aayog			
7	IFD, MDoNER			

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8	TW, MDoNER	Observation of TW, MDoNER is as under:- (a) In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit rate and mount (b) No specification of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned for which the road is designed. Apart from above common points, further for project at Sl.No.1, the provisions of Contigency @ 2% , Agency Charges @ 6.50% and Consultancy @ 2% has been taken.	Reply awaited	

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"CONCEPT NOTE"

Sl. No.	ITEMS	Detailed Information
A.	General Information About	The Project
I	Name of the project	Construction of road connectivity, water and power facilities at Ozuko Valley, Senapati District, Manipur.
Ii	Location of the project	Senapati, Manipur
Iii	Estimated cost of the project	Rs. 29.33 crore
Iv	Introduction	The Dzukou Valley is a valley located at the border of the Indian states of Manipur and Nagaland which is 25"33'28.13" North Latitude, 94"04'51.63" East Longitude and 2558 m Altitude above MSL. It can be reached in five hours of trek from Mt. Isii of Senapati district of Manipur. This valley is well known for its natural beauty, seasonal flowers and the overall flora and fauna. The valley is famous for its wide range of flower in every season. But the most famous one is the dzukou lily. Dzukou derives its meaning from the Angami/Mao word which translates to "Cold Water" referring to the ice cold stream that flows through the valley. Mao is a border town of Manipur bordering with Nagaland. In Mao the word Dzukou mean like dream because of its mystic charm and beauty. Mao legend said that when lovers go to Dzukou the night also turns like day and moonlit shines as of the sun. The rare Dzukou Lily is found only in this valley. A state border between Manipur and Nagaland runs through the heart of Dzukou Valley, marked at some points by a narrow stream. Whichever route you choose to reach the valley, it will first involve a morning steep climb, followed by a gentle descent into the valley, and walking through both states once you're actually in the valley.
V	Objectives of the Project	The project is aimed to provide infrastructures, public utility services, connectivity from Maram to Dzukou Valley and to promote one of the best tourism destinations and also to develop a tourist hot spot filled with flora and fauna.
Vi	Present Status	Presently, there is no proper internal road connectivity, power supply system's etc.

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vii	Project Component & Estimate cost	Qty	Rate	Unit	Amount (in crore)	Remarks
	a) Construction of Road	15	8675000	Km	13.012	
	b) Construction of Steps with Steel railing	0.5	3167000	Km	0.158	
	c) Pucca culvert	8	150000	Nos.	0.12	
	d) Construction of Drain	3	9772000	Km	2.932	
	e) Retaining wall	0.5	90945000	Km	4.547	
	f) Vehicle parking					
	4 wheeler- 2 Nos.	200	3167	Nos.	0.063	
	2 wheeler – 2 Nos.	100	3167	Nos.	0.032	
	g) Construction of Helipad	1	15000000	Nos.	1.5	
	h) Drinking water facility points	5	198600	Nos.	0.099	
	i) Solar street lamps	100	98000	Nos.	0.98	
	j) Rain shelter	8	25000	Nos.	0.02	
	k) Wooden bridge 120 feet	2	1200000	Nos.	0.24	
	TOTAL				**23.703**	
	ADD 12% GST				2.844	
	ADD 1% LABOUR CESS				0.237	
	ADD 0.25% VAT CHARGES				0.059	
	CONTINGECY 2%				0.474	
	ADD AGENCY CHARGES 6.5%				1.541	
	ADD 2% CONSULTANCY				0.474	
	GRANDTOTAL				**29.33 Crore**	
viii	Physical target & benefit to be generated	With its gently undulating dwarf bamboo grasslands, peppered with wildflowers set against theatrically morphing clouds that descend upon the hills, Dzukou Valley's striking landscape, sandwiched between northern Manipur and southern Nagaland, has been attracting hikers from all over the world.The star attraction is the rare pink Dzukou Lily, an endemic variety found only here, and whose inflorescence adds a dash of colour to the otherwise emerald green valley for two months beginning June. Post lily season, Dzukou's less glamorous flowers begin to bloom, one after the other. Most hikers avoid the frosty winter here, when the mercury plummets below zero, waterbodies freeze and waterfalls turn into surreal-looking suspended glassy popsicles. But this is also				

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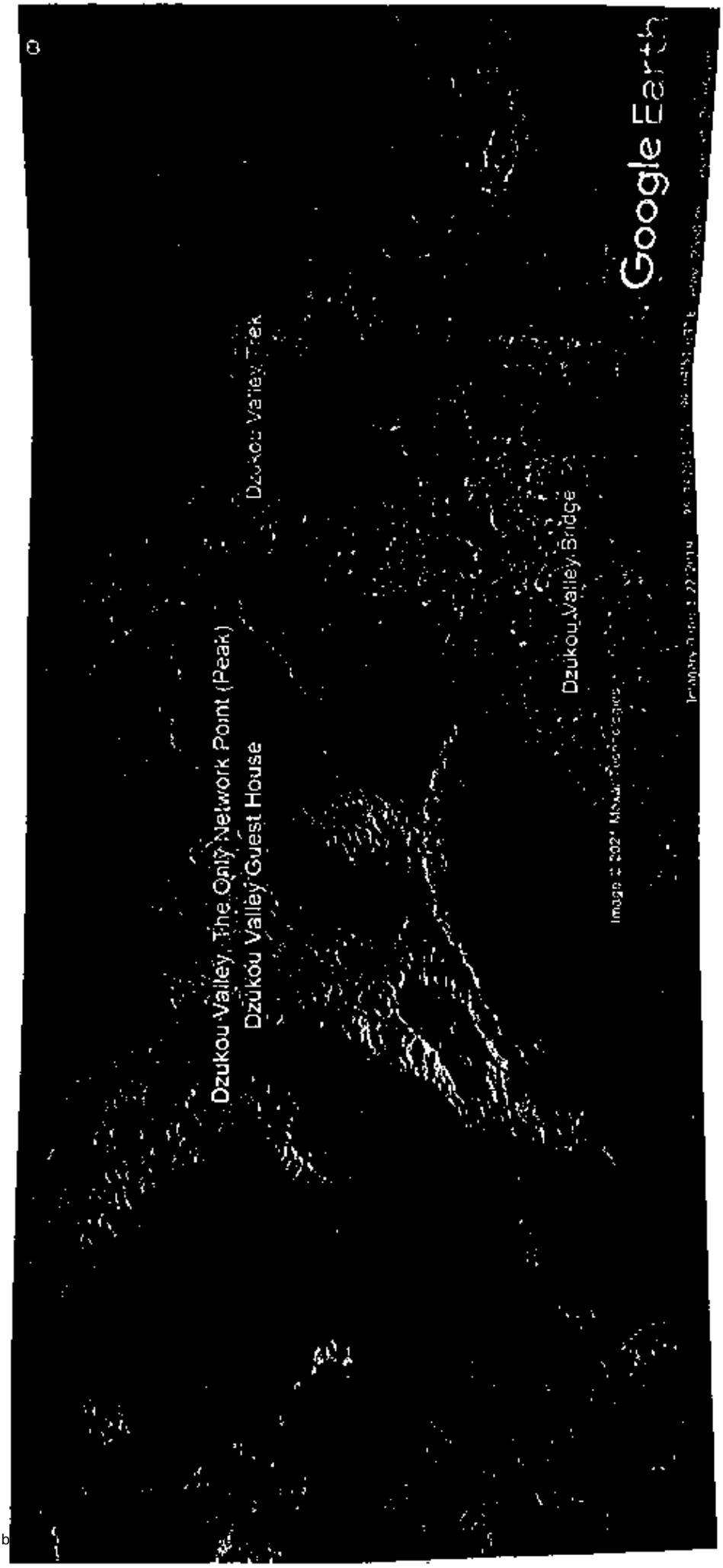
		what makes the 'low season' the most beautiful time of year. As they say in Scandinavia, there's no such thing as bad weather, only wrong clothing. Huge Employment opportunities will be generated and also local people will be able to earn adequate income and will bring in economic development of the surrounding communities in particular and the state in general.
Ix	Project duration	24 (twenty four) months
X	Phasing	Phase / Year / Physical / Financial 1st phase / 2021-22 / 40% / 2nd phase / 2022-23 / 60% /
xi	Method of implementation	By entrusting to an appropriate Engineering agency
xii	Status of land	Land is available without any compensation
xiii	Status of preparedness	The Department is ready for implementation.
xiii	Maintenance	On completion of the assets, management would be entrusted to local committee on PPP mode.
xiv	Justification for taking the project	The project will definitely boom adventure and eco-tourism as well as research and development activities. Availability of rare fauna will provide more opportunity to the research communities. Also, By implementing this project the nos. footfall will increase considerably and will provide local employment.
xv	Techno Economic viability	The Site and the Dzukou Lily is one of the important USP of the State. It is like a dream in one's life to reach a spot but required a professional guide as there is no proper approach road, public utility services. The Project after implementation can fulfill the dreams of many Manipuri's and will add another feeder to Manipur Tourism.
xvi	Funding	The proposal is presented to DoNER for funding under NESIDS.

Director (Tourism),
Manipur

COUNTERSIGNED

Commissioner (Tourism)
Govt. of Manipur.

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Google Earth
Dzukou Valley, The Only Network Point (Peak)
Dzukou Valley Guest House
Dzukou Valley Bridge

F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Manipur under NESIDS- Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2/2021- O/o US(NKS) dated: 17/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, CEA after examining the proposal has offered its following comments/suggestions (copy enclosed):

i. It is not clear from the project proposals whether these project sites /areas are currently electrified or not. In case, the grid connectivity is available at the project areas, it would be better to install the grid fed street lighting in place of installation of solar street lamps, which may not be a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult.
ii. Further, in case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places.
iii Further, considering the geographic location of the state and the huge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specifications of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. need to be ascertain before taking up the projects.
iv It is also noted that that the basis of cost estimates taken in the proposals have not been indicated.

2. With regards to funding of these projects under MoP Schemes, it is to mention that several Govt. of India funded schemes like North-Eastern Region Power System Improvement Project (NERPSIP), IPDS and DDUGJY are going-on in the State for strengthening the sub-transmission & Distribution System. However, at present, these schemes are almost under completion stage and there is no scope of revision of scope of already approved schemes.

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3. As the power sector scope of works in the above proposals only cover the installation of solar street lighting at the 6 sites and the estimated cost is only 3% of total cost, M/O DONER may consider to include the funding of solar street lighting under these projects as an immediate arrangement, if these projects are approved by M/O DONER.

4. This has the approval of Joint Secretary (H).

Encl: As above,

17/6

(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

.....

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 20.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 17.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl.No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road connectivity, water and power facilities at Dzuko Valley, Senapati District, Manipur	29.33	(a)In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b)No specifications of Road Pavement have been mentioned. (c)The MSA & CBR value is not mentioned for which the road is designed. (d) The formation width and carriageway width is not mentioned in Concept Notes. Apart from above common points, further for Project at Sl. No. 1, the provisions of Contingency @ 2%, Agency Charges @ 6.50% and Consultancy @ 2% has been taken. Programe Division may like to see. AND In Project at Sl. No. 5, there is a calculation mistake and total comes to Rs16.83 crores against Rs 20.01 crores. State Govt. may be asked to do the needful.
2.	Development of Infrastructure for Road Connectivity, Water Facilities, Power supply at Laiingthou Sanamahi Shanglen Complex at Wangoi, Imphal West district, Manipur	20.00	
3.	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru waterfall, Kangpokpi District, Manipur	20.36	
4.	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal District, Manipur	20.07	
5	Development of Infrastructures for road connectivity, power and water facilities at Vishnu Temple Complex, Bishnupur District, Manipur.	20.01	
6	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93	

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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ANNEXURE-U

31st meeting of IMC/NESIDS Committeescheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Manipur**

Name of Project: Development of Infrastructure for Road Connectivity, Water facilities, Power supply at Laininghou Sanamahi Shanglen Complex at Wangoi, Imphal West District.

Project Description/Summary (not exceeding 200 words): The Laininghou Sanamahi is religion one the oldest religions of South East Asia. It originated in Manipur and was mainly worship by Meteis, Kabuis and Zeliangong and few other communities who are inhabiting in Manipur, Assam, Tripura, Myanmar, Bangladesh, Australia, USA, UK and Canada etc. The approach road to the site is in bad shape and required improvement. The road is narrow and no black top. Moreover, there is no facilities for drinking water supply. Presently, the site is a tourist destinations for prayer to God Sanamahi. Every year more than 5000 devotees visit the site.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2000.35 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Tourism infrastructure
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): Yes	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Ministry.
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	On completion of the assets, management would be entrusted to local Committee.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	Breakup of Major Components of the projects as per Concept Note (**figure in lakhs**)

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	Project Component & Estimate cost	Qty.	Rate	Amount
a	Approach Road	70000 (double lane)	8675	607.25
b	Side Drain	7000.0	9772	684.04
c	Culvert	6 nos	4550000	273.00
d	Drinking water facility	4 nos	2986000	119.44
e	Solar lamp	60 nos	98000	58.80
f	Footpath arround the temple	2000 m	4176	83.52
g	Retaining wall around the pond	100 m	90945	90.96
h	parking	2000 Sq.m	4167	83.34
			Total	2000.35
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, If any		Nil	
1.8	Date of receipt of proposal/concept note from State Government (SG)		29.04.2021	
1.9	Original			
1.10	Revised (if any)			
2	Is the project in question supported/coverable under any other scheme of Central or State Government		No	
3	Normative allocation of SG and related details	Rs.119.76 Normative allocation. Available Balance Rs.66.17 cr.		
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:			

	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	IFD, MDoNER	17.05.2021	No comments received till date
	Technical Wing, MDoNER	17.05.2021	No comments received till date
	Ministry of Power	17.05.2021	17.07.2021
	Ministry of Housing & Urban Development	17.05.2021	No comments received till date
	Ministry of Jal Shakti	17.05.2021	No comments received till date

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	Ministry of R&HW	17.05.2021	No comments received till date
	Ministry of Housing & Urban Affairs	17.05.2021	No comments received till date
	Ministry of RD	17.05.2021	No comments received till date
	Niti Aayog	17.05.2021	No comments received till date
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**		
7	**Important observations/comments of Prog. Division**		
	The objective of the project to increase tourist footfalls at the site by way of improving the road connectivity & public utilities. Project will promote tourists flow of the sites and income generation of the youths and women empowerment. After due scrutiny, the PD recommends the proposal for consideration in the IMC.		

27/10/21
(Dated Signature & Name of
Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD/ Technical Wing	Commens in brief	resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.07.2021 is as under:- (i) the project proposals sites/areas are currently electrified or not. In case, the grid connectivity is is available at the project area, it would be better to install the grid fed street ligh in place of solar lamps, which may not a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult. (ii) In case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places. (iii) Further, considering the geographic location of the state and the hudge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specification of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. neet to be ascertain before taking up the projects. (iv) It is also noted that the basis of cost estimates taken in the proposals have not been indicated.	Yet to be received	
2	Ministry of Housing & Urban Developmen t			
3	Ministry of Jal Shakti			
4	Ministry of R&HW			
5	Ministry of RD			
	Niti Aayog			
	IFD, MDoNER			

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6	TW, MDoNER	Observation of TW, MDoNER is as under:- (a) In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit rate and mount (b) No specification of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned for which the road is designed. Apart from above common points, further for project at Sl.No.1, the provisions of Contigency @ 2% , Agency Charges @ 6.50% and Consultancy @ 2% has been taken.	Reply awaited	

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"CONCEPT NOTE"

Sl. No.	Items	Detailed Information
A	General Information About	The Project
I	Name of the project	Development of Infrastructure for Road Connectivity, Water facilities, Power supply at Laininghou Sanamahi Shanglen Complex at Wangoi, Imphal West District.
II	Location of the project	Wangoi, Imphal West District, Manipur.
III	Estimated cost of the project	**2000.35 lakh**
IV	Introduction	Laininghou Sanamahi is located at Wangoi (Latitude 24.67270N & Longitude 93.90114E). The Laininghou Sanamahi is religion one of the oldest religions of South East Asia. It originated in Manipur and was mainly worship by Meteis, Kabuis and Zeliangong and few other communities who are inhabiting in Manipur, Assam, Tripura, Myanmar, Bangladesh, Australia, USA, UK and Canada etc. Laininghou Sanamahi is also worship by the sub-clans to have been inhabiting in Manipur from earlier times like the communities. Sanamahism was practiced from 1445 BCE when Tangja Lilla Pakhangba (1445 BCE-1405 BCE) established the first Meetei Kingom. Mitei later come to be pronounced as Meetei or Meitei and various period. He is the creator and controller of universe. The Sanamahi religion nad the Meitei culture, customs and tradition are very closely related and inseparable. The revivalism or revolutionary cult Sanamahism is recognized by the Census record (2001) of the Government of India due to the praise worthy efforts. Sanamahi Shanglen located at Wangoi, Imphal West is worshipped by many devotees. However, the approach road to the site is in bad shape and required improvement. The road is narrow and no black top. Moreover, there is no facilities for drinking water facilities, Power supply. The ascetic beauty of the site such as a nature spring. Fountain, Pond, Vast green grass in mold need proper care by way of infrastructure development.
V	Objectives of the project	The project is aimed at promoting the connectivity, public utilities facilities for more inflow of tourists
VI	Present Status	Presently, the site is a tourist destinations for prayer to God Sanamahi. Every year more than 5000 devotees visited the site per year.

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VII	Project component & Estimated Cost	Qnty.	Rate	Unit	Amount	Remarks
a	Approach Road	7000 (double land)	8675		607.25	
b	Side Drain	7000	9772		684.04	
c	Culvert	6 nos	4550000		273.00	
d	Drinking water facilities	4 nos	2986000		119.44	
e	Solar lamp	60 nos	98000		58.80	
f	Footpath arroundthe temple	2000 m.	4176		83.52	
g	Retaining wall around the pond	100 m.	90945		90.96	
h	Parking	2000 Sq.m.	4167		83.34	
				Total :	**2000.35**	
VIII	Physical Target/Benefit					
IX	Project duration	**2 yrs.**				
X	Phasing	**Phase**	**Year**	**Physical**	**Financial**	
		1st	2021-22	40%		
		2nd	2022-2023	60%		
XI	Method of Implementation	By entrusting to an appropriate engineering agency decided by the Government.				
XII	Status of Land	Available				
XIII	Status of preparedness	By taking up this project there will be no damage to the environment as it will be planned in and eco-friendly manner. The department is ready to take up the project.				
XIV	Maintenance	On completion, the assets, management would be entrusted to local committee.				
XV	Justification for taking the project	The project aims to increase tourist footfalls at the project site by way of improving the road connectivity & public utilities. The project will provide better opportunities for generation of employment in the state.				
XVI	Techno-Economic viability	To promote tourists flow of the sites and Income generation of the youths and women empowerment.				
XVII	Funding	The proposals is presented to DoNER for funding under NESIDS.				

Director (Tourism),
Manipur

COUNTERSIGNED

Commissioner (Tourism),
Govt. of Manipur.

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F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Manipur under NESIDS- Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2/2021- O/o US(NKS) dated: 17/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, CEA after examining the proposal has offered its following comments/suggestions (copy enclosed):

i. It is not clear from the project proposals whether these project sites /areas are currently electrified or not. In case, the grid connectivity is available at the project areas, it would be better to install the grid fed street lighting in place of installation of solar street lamps, which may not be a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult.
ii. Further, in case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places.
iii Further, considering the geographic location of the state and the huge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specifications of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. need to be ascertain before taking up the projects.
iv. It is also noted that that the basis of cost estimates taken in the proposals have not been indicated.

2 With regards to funding of these projects under MoP Schemes, it is to mention that several Govt. of India funded schemes like North-Eastern Region Power System Improvement Project (NERPSIP), IPDS and DDUGJY are going-on in the State for strengthening the sub-transmission & Distribution System. However, at present, these schemes are almost under completion stage and there is no scope of revision of scope of already approved schemes.

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3. As the power sector scope of works in the above proposals only cover the installation of solar street lighting at the 6 sites and the estimated cost is only 3% of total cost, M/O DONER may consider to include the funding of solar street lighting under these projects as an immediate arrangement, if these projects are approved by M/O DONER.

4. This has the approval of Joint Secretary (H).

Encl: As above,

(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 20.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 17.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl.No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road connectivity, water and power facilities at Dzuko Valley, Senapati District, Manipur	29.33	(a)In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b)No specifications of Road Pavement have been mentioned. (c)The MSA & CBR value is not mentioned for which the road is designed. (d) The formation width and carriageway width is not mentioned in Concept Notes. Apart from above common points, further for Project at Sl. No. 1, the provisions of Contingency @ 2%, Agency Charges @ 6.50% and Consultancy @ 2% has been taken. Programe Division may like to see. AND In Project at Sl. No. 5, there is a calculation mistake and total comes to Rs16.83 crores against Rs 20.01 crores. State Govt. may be asked to do the needful.
2.	Development of Infrastructure for Road Connectivity, Water Facilities, Power supply at Laiingthou Sanamahi Shanglen Complex at Wangoi, Imphal West district, Manipur	20.00	
3.	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru waterfall, Kangpokpi District, Manipur	20.36	
4.	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal District, Manipur	20.07	
5	Development of Infrastructures for road connectivity, power and water facilities at Vishnu Temple Complex, Bishnupur District, Manipur.	20.01	
6	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93	

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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ANNEXURE-V

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Manipur**

Name of Project: Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru Water fall.

Project Description/Summary (not exceeding 200 words): The Sadu Chiru Fall is around 29 Km from Imphal and fall under the Kangpokpi District. This is the most popular waterfall in Manipur. Sadu Chiru Waterfall is at precise point where the hills roll down into the valley. The waterfall is 15m high and cam cascading down from thick tropical forest. Presently, there is no properly developed road, power supply, drinking water facilities.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2036.49 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Tourism infrastructure
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): Yes	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Ministry.

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1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	On completion of the assets, management would be entrusted to local Committee.		
1.7	Broad Breakup of Major Components of the project Cost as per concept note	Breakup of Major Components of the projects as per Concept Note (figure in lakhs)		
	Project Component & Estimate cost	Qty.	Rate	Amount
a	Approach Road	5500 m	8675	477.13
b	Side Drain	5500 m	9772	537.46
c	Pucca Culvert	3 each	4550000	136.50
d	Retaining wall	600 m	90945	545.67
e	Hill-up steps with railing	900 m	25500	229.50
f	Drinking water facility	2 each	2986000	59.72
g	Solar Street lamp	40 each	98000	39.20
h	Rain Shelter	4 each	600000	0.24
i	Parking (Four Wheeler)	300 Sq.m	3167	9.81
j	Pring (Two Wheeler)	40 Sq.m	3167	1.26
			Total	2036.49
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any		Nil	
1.8	Date of receipt of proposal/concept note from State Government (SG)		29.04.2021	
1.9	Original			
1.10	Revised (if any)			
2	Is the project in question supported/coverable under any other scheme of Central or State Government		No	
3	Normative allocation of SG and related details	Rs.119.76 Normative allocation. Available Balance Rs.66.17 cr.		
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates			

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	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	IFD, MDoNER	17.05.2021	No comments received till date
	Technical Wing, MDoNER	17.05.2021	No comments received till date
	Ministry of Power	17.05.2021	17.07.2021
	Ministry of Housing & Urban Development	17.05.2021	No comments received till date
	Ministry of Jal Shakti	17.05.2021	No comments received till date
	Ministry of RD	17.05.2021	No comments received till date
	Ministry of R&HW	17.05.2021	No comments received till date
	Niti Aayog	13.05.2021	No comments received till date
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**		
7	**Important observations/comments of Prog. Division**		
	The objective of the project is to increase tourist footfalls at the site by way of improving the road connectivity & public utilities. Project will promote tourists flow of the sites and income generation of the youths and women empowerment. After due scrutiny, the PD recommends the proposal for consideration in the IMC.		

27/10/21
(Dated Signature & Name of Under Secretary concerned)

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Annexure-3

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD/Technical Wing	Commens in brief	resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.07.2021 is as under:- (i) the project proposals sites/areas are currently electrified or not. In case, the grid connectivity is is available at the project area, it would be better to install the grid fed street ligh in place of solar lamps, which may not a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult. (Ii) In case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places. (iii) Further, considering the geographic location of the state and the hudge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specification of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. neet to be ascertain before taking up the projects. (iv) It is also noted that the basis of cost estimates taken in the proposals have not been indicated.	Yet to be received	
2	Ministry of Housing & Urban Development			
3	Ministry of Jal Shakti			
4	Ministry of R&HW			
5	Ministry of RD			
6	Niti Aayog			
7	IFD, MDoNER			

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8	TW, MDoNER	Observation of TW, MDoNER is as under:- (a) In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit rate and mount (b) No specification of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned for which the road is designed. Apart from above common points, further for project at Sl.No.1, the provisions of Contigency @ 2% , Agency Charges @ 6.50% and Consultancy @ 2% has been taken.	Reply awaited	

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"CONCEPT NOTE"

Sl. No.	Items	Detailed Information				
A	General Information About	The Project				
I	Name of the project	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru Waterfall.				
II	Location of the project	Sadu Chiru, Kangpokpi District, Manipur				
III	Estimated cost of the project	Rs.2036.49 lakh				
IV	Introduction	Sadu Chiru Fall is located at Latitude 24.74104N & Longitude 93.74640E. The waterfall popularly known as Leimaram Fall because of its closeness to Leimaram in the Bishnupur District of Manipur. But the certified name for the waterfall is Sadu Chiru. It is around 29Km from Imphal and fall under the Kangpokpi District. Sadu Chiru waterfall is no doubt the most popular waterfall in Manipur. In a state surrounded by mountains, one would expect lots of waterfalls like the ones in Meghalaya and Sikkim, but honestly there are not many waterfalls in Manipur. Manipur has poor and in some cases no road facilities to most remote parts of the state. Sadu Chiru Waterfall is at this precise point where the hills roll down into the valley. The waterfall is 15m high and cam cascading down from thick tropical forest. There are two more falls hidden beneath this green forest, but they are not open to public, perhaps of the precarious and steep landscapes. Though not dominant, the waterfall is beautiful.					
V	Objectives of the project	The project is aimed at promoting the connectivity, public utilities facilities for more inflow of tourists				
VI	Present Status	Presently, there is no properly developed road, power supply, drinking water facilities				
VII	Project component & Estimated Cost	Qnty.	Rate	Unit	Amount	Remarks
a	Approach Road	5500	8675	m	477.13	
b	Side Drain	5500	9772	m	537.46	
c	Pucca Culvert	3	4550000	each	136.50	
d	Retaining wall	600	90945	m	545.67	
e	Hill-up steps with railing	900	25500	m	229.50	
f	Drinking water facility	2	2986000	each	59.72	
g	Solar Street lamp	40	98000	each	39.20	
h	Rain Shelter	4	600000	each	0.24	
i	Parking (Four Wheeler)	300	3167	Sq. m	9.81	
j	Parking (Two Wheeler)	40	3167	Sq. m	1.26	
				Total	**2036.49**	

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VIII	Physical Target/Benefit	To improve the exiting road connectivity and basic infrastructure like water and lighting facilities at the site.
IX	Project duration	2 yrs.
X	Phasing	**Phase** / **Year** / **Physical** 1st / 2021-2022 / 40% 2nd / 2022-2023 / 60%
XI	Method of Implementation	By entrusting to an appropriate engineering agency decided by the Government.
XII	Status of Land	Land is available
XIII	Status of preparedness	By taking up this project there will be no negative impact on environment as it will be based on planned and eco- friendly manner. The department is ready to take up the project.
XIV	Maintenance	On completion, the assets, management would be entrusted to local committee/organization on revenue sharing basis.
XV	Justification for taking the project	Waterfalls project is most desirable in view of present context of Tourism Industry in Manipur. The area is bounded by natural settings and cultural value of the area. The present proposal is aimed at promoting tourists facilitation at the site.
XVI	Techno-Economic viability	To promote tourists flow of the sites and income generation to the locals by enhancing ancillaries of tourism activities..
XVII	Funding	The proposals is presented to DoNER for funding under NESIDS.

COUNTERSIGNED

Director (Tourism),
Manipur

Commissioner (Tourism)
Govt. of Manipur.

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F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Manipur under NESIDS- Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2/2021- O/o US(NKS) dated: 17/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, CEA after examining the proposal has offered its following comments/suggestions (copy enclosed):

i. It is not clear from the project proposals whether these project sites /areas are currently electrified or not. In case, the grid connectivity is available at the project areas, it would be better to install the grid fed street lighting in place of installation of solar street lamps, which may not be a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult.
ii. Further, in case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places.
iii. Further, considering the geographic location of the state and the huge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specifications of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. need to be ascertain before taking up the projects.
iv It is also noted that that the basis of cost estimates taken in the proposals have not been indicated.

2. With regards to funding of these projects under MoP Schemes, it is to mention that several Govt. of India funded schemes like North-Eastern Region Power System Improvement Project (NERPSIP), IPDS and DDUGJY are going-on in the State for strengthening the sub-transmission & Distribution System. However, at present, these schemes are almost under completion stage and there is no scope of revision of scope of already approved schemes.

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3. As the power sector scope of works in the above proposals only cover the installation of solar street lighting at the 6 sites and the estimated cost is only 3% of total cost, M/O DONER may consider to include the funding of solar street lighting under these projects as an immediate arrangement, if these projects are approved by M/O DONER.

4. This has the approval of Joint Secretary (H).

Encl: As above,

(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 20.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 17.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl.No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road connectivity, water and power facilities at Dzuko Valley, Senapati District, Manipur	29.33	(a)In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b)No specifications of Road Pavement have been mentioned. (c)The MSA & CBR value is not mentioned for which the road is designed. (d) The formation width and carriageway width is not mentioned in Concept Notes. Apart from above common points, further for Project at Sl. No. 1, the provisions of Contingency @ 2%, Agency Charges @ 6.50% and Consultancy @ 2% has been taken. Programe Division may like to see. AND In Project at Sl. No. 5, there is a calculation mistake and total comes to Rs16.83 crores against Rs 20.01 crores. State Govt. may be asked to do the needful.
2.	Development of Infrastructure for Road Connectivity, Water Facilities, Power supply at Laininglhou Sanamahi Shanglen Complex at Wangoi, Imphal West district, Manipur	20.00	
3.	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru waterfall, Kangpokpi District, Manipur	20.36	
4.	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal District, Manipur	20.07	
5	Development of Infrastructures for road connectivity, power and water facilities at Vishnu Temple Complex, Bishnupur District, Manipur.	20.01	
6	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93	

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US. M/o DoNER, R.K. Puram, New Delhi

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ANNEXURE-W

31st meeting of IMC/NESIDS Committee scheduled on29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Manipur**

Name of Project: Development of Infrastructure for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal district, Manipur.

Project Description/Summary (not exceeding 200 words): Gwarok Mahadev Temple is popular pilgrimage site in the Thoubal District, Manipur. The temple is venerated by all communities in the State round the year, pilgrims from far and near come to pay their obeisance to the Lord. At the time of religious Hindu festivals the temple is visited by the visitors in thousands.

	Stage 1: Retention/Selection of the Project			
1	**General Information**			
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2007.72 lakh		
1.2	**Whether lying in backward areas**	Not available		
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Tourism infrastructure		
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): Yes			
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Ministries/Deptt.		
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	On completion of the assets, management would be entrusted to local Committee/organization on revenue sharing basis.		
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	Breakup of Major Components of the projects as per Concept Note **(figure in lakhs)**		
	Project Component & Estimate cost	**Qty.**	**Rate**	**Amount**
a	**Approach Road**	6000 m	8675	520.50
b	**Side Drain**	5500 m	9772	537.46
c	**Pucca Culvert**	3 each	4550000	136.50
d	**Retaining wall**	600 m	90945	545.67

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e	Hill-up steps with railing	500 m	25500	127.50
f	Drinking water facility	3 each	2986000	89.58
g	Solar Street lamp	40 each	98000	39.20
h	Rain Shelter	4 each	600000	0.24
i	Parking (Four Wheeler)	300 Sq.m	3167	9.81
j	Pring (Two Wheeler)	40 Sq.m	3167	1.26
			Total	2007.72
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any		Nil	
1.8	Date of receipt of proposal/concept note from State Government (SG)		29.04.2021	
1.9	Original			
1.10	Revised (if any)			
2	Is the project in question supported/coverable under any other scheme of Central or State Government		No	
3	Normative allocation of SG and related details	Rs.119.76 Normative allocation. Available Balance Rs.66.17 cr.		
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:			

	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	IFD, MDoNER	17.05.2021	No comments received till date
	Technical Wing, MDoNER	17.05.2021	No comments received till date
	Ministry of Power	17.05.2021	17.07.2021
	Ministry of Housing & Urban Development	17.05.2021	No comments received till date
	Ministry of Jal Shakti	17.05.2021	No comments received till date
	Ministry of RD	17.05.2021	No comments received till date
	Ministry of R&HW	17.05.2021	No comments received till date
	Niti Aayog	17.05.2021	No comments received till date

5	Whether proposal has been accompanied with the following documents

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	(a) Concept Note	Yes. Concept paper is at p...../c
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c
	(c) Approval of CS	Yes.
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**	
7	**Important observations/comments of Prog. Division**	
	The objective of the project is to increase tourist footfalls at the site by way of improving the road connectivity & public utilities. After due scrutiny, the PD recommends the proposal for consideration in the IMC.	

27/10/21
(Dated Signature & Name of
Under Secretary concerned)

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD /Technical Wing	Commens in brief	resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.07.2021 is as under:- (i) the project proposals sites/areas are currently electrified or not. In case, the grid connectivity is is available at the project area, it would be better to install the grid fed street ligh in place of solar lamps, which may not a rellable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult. (ii) In case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places. (iii) Further, considering the geographic location of the state and the hudge vegetation cover, avallabillty of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specification of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. neet to be ascertain before taking up the projects. (iv) It is also noted that the basis of cost estimates taken in the proposals have not been indicated.	Yet to be received	
2	Ministry of Housing & Urban Developme nt			
3	Ministry of Jal Shakti			
4	Ministry of R&HW			
5	Ministry of RD			
6	Niti Aayog			
7	IFD, MDoNER			

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8	TW, MDoNE	Observation of TW, MDoNER is as under:- (a) In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit rate and mount (b) No specification of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned for which the road is designed. Apart from above common points, further for project at Sl.No.1, the provisions of Contigency @ 2% , Agency Charges @ 6.50% and Consultancy @ 2% has been taken.	Reply awaited	

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"CONCEPT NOTE"

Sl. No.	Items	Detailed Information				
A	General Information About	The Project				
I	Name of the project	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex.				
II	Location of the project	Kekru Village, Yairipok , Thoubal District, Manipur				
III	Estimated cost of the project	Rs.2007.72 lakh				
IV	Introduction	Gwarok Mahadev Temple is located at Latitude 24.66620N & Longitude 94.06853E. The temple is popular pilgrimage site in the Thoubal District, Manipur. The temple is venerated by all communities in the state round the year, pilgrims from far and near come to pay their obeisance to the Lord. At the time of religious Hindu festivals the temple is visited by visitors in thousands.				
V	Objectives of the project	The project is aimed at promoting the connectivity, public utilities facilities for more inflow of tourists				
VI	Present Status	Presently, there is no properly developed road, power supply, drinking water facilities				
VII	Project component & Estimated Cost	Qnty.	Rate	Unit	Amount	Remarks
a	Approach Road	6000	8675	m	520.50	
b	Side Drain	5500	9772	m	537.46	
c	Pucca Culvert	3	4550000	each	136.50	
d	Retaining wall	600	90945	m	545.67	
e	Hill-up steps with railing	500	25500	m	127.50	
f	Drinking water facility	3	2986000	each	89.58	
g	Solar Street lamp	40	98000	each	39.20	
i	Rain Shelter	4	600000	each	0.24	
j	Parking (Four Wheeler)	300	3167	Sq. m	9.81	
k	Parking (Two Wheeler)	40	3167	Sq. m	1.26	
				Total	**2007.72**	
VIII	Physical Target/Benefit	To improve the exiting road connectivity and basic infrastructure like water and lighting facilities at the site.				
IX	Project duration	2 yrs.				
X	Phasing	**Phase**	**Year**		**Physical**	
		1st	2021-2022		40%	
		2nd	2022-2023		60%	

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XI	Method of Implementation	By entrusting to an appropriate engineering agency decided by the Government.
XII	Status of Land	Land is available
XIII	Status of preparedness	By taking up this project there will be no negative impact on environment as it will be based on planned and eco- friendly manner. The department is ready to take up the project.
XIV	Maintenance	On completion, the assets, management would be entrusted to local committee/organization on revenue sharing basis.
XV	Justification for taking the project	The project aims to increase tourist footfalls at the project site by way of improving the road connectivity & public utilities. The project will provide better opportunities for generation of employment in the state.
XVI	Techno-Economic viability	To promote tourists flow of the sites and income generation to the locals by enhancing ancillaries of tourism activities.
XVII	Funding	The proposals is presented to DoNER for funding under NESIDS.

COUNTERSIGNED

Director (Tourism),
Manipur

Commissioner (Tourism)
Govt. of Manipur.

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DFA/115909 (Attachment : Annexure G_1636135449968_547.pdf)

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F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Manipur under NESIDS- Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2/2021- O/o US(NKS) dated: 17/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, CEA after examining the proposal has offered its following comments/suggestions (copy enclosed):

i. It is not clear from the project proposals whether these project sites /areas are currently electrified or not. In case, the grid connectivity is available at the project areas, it would be better to install the grid fed street lighting in place of installation of solar street lamps, which may not be a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult.
ii. Further, in case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places.
iii. Further, considering the geographic location of the state and the huge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specifications of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. need to be ascertain before taking up the projects.
iv. It is also noted that that the basis of cost estimates taken in the proposals have not been indicated.

2. With regards to funding of these projects under MoP Schemes, it is to mention that several Govt. of India funded schemes like North-Eastern Region Power System Improvement Project (NERPSIP), IPDS and DDUGJY are going-on in the State for strengthening the sub-transmission & Distribution System. However, at present, these schemes are almost under completion stage and there is no scope of revision of scope of already approved schemes.

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3. As the power sector scope of works in the above proposals only cover the installation of solar street lighting at the 6 sites and the estimated cost is only 3% of total cost, M/O DONER may consider to include the funding of solar street lighting under these projects as an immediate arrangement, if these projects are approved by M/O DONER.

4. This has the approval of Joint Secretary (H).

Encl: As above,

17/11
(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 20.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 17.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl.No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road connectivity, water and power facilities at Dzuko Valley, Senapati District, Manipur	29.33	(a)In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b)No specifications of Road Pavement have been mentioned. (c)The MSA & CBR value is not mentioned for which the road is designed. (d) The formation width and carriageway width is not mentioned in Concept Notes. Apart from above common points, further for Project at Sl. No. 1, the provisions of Contingency @ 2%, Agency Charges @ 6.50% and Consultancy @ 2% has been taken. Programe Division may like to see. AND In Project at Sl. No. 5, there is a calculation mistake and total comes to Rs16.83 crores against Rs 20.01 crores. State Govt. may be asked to do the needful.
2.	Development of Infrastructure for Road Connectivity, Water Facilities, Power supply at Laiingthou Sanamahi Shanglen Complex at Wangoi, Imphal West district, Manipur	20.00	
3.	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru waterfall, Kangpokpi District, Manipur	20.36	
4.	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal District, Manipur	20.07	
5	Development of infrastructures for road connectivity, power and water facilities at Vishnu Temple Complex, Bishnupur District, Manipur.	20.01	
6	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93	

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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ANNEXURE-X

31st meeting of IMC/NESIDS Committeescheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Manipur**

Name of Project: Development of Infrastructure for road connectivity, power and water facilities at Vishnu Temple Complex.

Project Description/Summary (not exceeding 200 words): The Vishnu Temple is a 15th Century Temple dedicated to Lord Vishnu, King Kyamba of Manipur along with Chaopha Khe Khomba, the kin of PONG, conquered Kyane. King Kyamba build Vishnu Temple of brick at Bishnupur which has now became protected historical monument under the Ministry of HRD (Archaeology) Government of India. It is now standing as a symbol of the remains of ancient times about 29 km from Imphal located at Bishnupur district.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2001.42 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Tourism infrastructure
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): Yes	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Ministries/Deptt.

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1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	On completion of the assets, management would be entrusted to local Committee/organization on revenue sharing basis.		
1.7	Broad Breakup of Major Components of the project Cost as per concept note	Breakup of Major Components of the projects as per Concept Note (figure in lakhs)		
	Project Component & Estimate cost	Qty.	Rate	Amount
a	Approach Road	6500 m	8675	563.88
b	Side Drain	6500 m	9772	635.18
c	Drinking water facility	5 each	2986000	149.30
d	Solar Street lamp	65 each	98000	63.70
e	Pathway	2500	4167	104.18
i	Parking	4000 Sq.m	4167	166.68
			Total	2001.42
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any		Nil	
1.8	Date of receipt of proposal/concept note from State Government (SG)		29.04.2021	
1.9	Original			
1.10	Revised (if any)			
2	Is the project in question supported/coverable under any other scheme of Central or State Government		No	
3	Normative allocation of SG and related details	Rs.119.76 Normative allocation. Available Balance Rs.66.17 cr.		
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:			
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments		Date of receipt of comments (if any)

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	Ministry of Power	17.05.2021	17.07.2021
	Ministry of Housing & Urban Development	17.05.2021	No comments received till date
	Ministry of Jal Shakti	17.05.2021	No comments received till date
	Ministry of RD	17.05.2021	No comments received till date
	Ministry of R&HW	17.05.2021	No comments received till date
	Niti Aayog	13.05.2021	No comments received till date
	IFD, MDoNER	13.05.2021	No comments received till date
	Technical Wing, MDoNER	13.05.2021	No comments received till date
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**		
7	**Important observations/comments of Prog. Division**		
	The project is aimed at promoting the connectivity & public utility facilities for more inflow of tourists. The project will provide better opportunities for employment generation in the State. After due scrutiny, the PD recommends the proposal for consideration in the IMC.		

27/10/21
(Dated Signature & Name of
Under Secretary concerned)

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Annexure-5

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD/Technical Wing	Commens in brief	Resonse of SG/proposal submitting agency to the	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.07.2021 is as under:- (i) the project proposals sites/areas are currently electrified or not. In case, the grid connectivity is is available at the project area, it would be better to install the grid fed street ligh in place of solar lamps, which may not a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult. (ii) In case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places. (iii) Further, considering the geographic location of the state and the hudge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specification of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. neet to be ascertain before taking up the projects. (iv) It is also noted that the basis of cost estimates taken in the proposals have not been indicated.	Yet to be received	
2	Ministry of Housing & Urban Development			
3	Ministry of Jal Shakti			
4	Ministry of R&HW			
5	Ministry of RD			
6	Niti Aayog			
7	IFD, MDoNER			

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8	TW, MDoNER	Observation of TW, MDoNER is as under:- (a) In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit rate and mount (b) No specification of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned for which the road is designed. Apart from above common points, further for project at Sl.No.1, the provisions of Contigency @ 2% , Agency Charges @ 6.50% and Consultancy @ 2% has been taken. It is also mentioned that there is a calculation mistake and total comes to Rs.16.83 crores against Rs.20.01 crore.	Reply awaited	

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"CONCEPT NOTE"

Sl. No.	Items	Detailed Information
A	General Information About	The Project
I	Name of the project	Development of Infrastructure for road connectivity, power and water facilities at Vishnu Temple Complex.
II	Location of the project	Bishnupur, Bishnupur District, Manipur
III	Estimated cost of the project	Rs.2001.42 lakh
IV	Introduction	Vishnu Temple is located at Bishnupur (Latitude 24.62022N & Longitude 93.75386E). The Vishnu Temple is a 15th Century Temple dedicated to Lord Vishnu, King Kyamba of Manipur along with Chaopha Khe Khomba, the king of PONG, conquered Kyane. A shan kingdom in the Kabaw valley of present Myanmar, jubilant at the victory, an Idol of Lord Vishnu was given by the Pong king to king Kyamba. King Kyamba built Vishnu Temple of brick at Bishnupur which has now became protected historical monument under the Ministry of HRD (Archeology) Government of India. It is now standing as a symbol of the remains of ancient times about 29 Km from Imphal.
V	Objectives of the project	The project is aimed at promoting the connectivity, public utilities facilities for more inflow of tourists
VI	Present Status	Presently, there is no properly developed road, power supply, drinking water facilities

VII	Project component & Estimated Cost	Qnty.	Rate	Unit	Amount	Remarks
a	Approach Road	6500	8675		563.88	
b	Side Drain	6500	9772		635.18	
c	Drinking water facilities	5 nos	2986000		149.30	
d	Solar Street Lamp	65 nos	98000		63.70	
e	Pathway	2500	4167		104.18	
f	Parking	4000	4167		166.68	
				Total	2001.42	

VIII	Physical Target/Benefit	To improve the exiting road connectivity and basic infrastructure like water and lighting facilities at the site.		
IX	Project duration	2 yrs.		
X	Phasing	Phase	Year	Physical
		1st	2021-2022	40%
		2nd	2022-2023	60%
XI	Method of Implementation	By entrusting to an appropriate engineering agency decided by the Government.		
XII	Status of Land	Land is available		

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XIII	Status of preparedness	By taking up this project there will be no negative impact on environment as it will be based on planned and eco- friendly manner. The department is ready to take up the project.
XIV	Maintenance	On completion, the assets, management would be entrusted to local committee/organization on revenue sharing basis.
XV	Justification for taking the project	Implement of road connectivity is most desirable in view of present context of Tourism industry in Manipur. The area is bounded by natural settings and cultural value of the area. The present proposal is aimed at promoting tourists facilitation at the site.
XVI	Techno-Economic viability	The project aims to increase tourist footfalls at the project site by way of improving the road connectivity & public utilities. The project will provide better opportunities for generation of employment in the state.
XVII	Funding	The proposals is presented to DoNER for funding under NESIDS.

COUNTERSIGNED

Director (Tourism),
Manipur

Commissioner (Tourism)
Govt. of Manipur.

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DFA/115909 (Attachment : Annexure G_1636135449968_547.pdf)

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F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Manipur under NESIDS- Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2/2021- O/o US(NKS) dated: 17/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, CEA after examining the proposal has offered its following comments/suggestions (copy enclosed):

i. It is not clear from the project proposals whether these project sites /areas are currently electrified or not. In case, the grid connectivity is available at the project areas, it would be better to install the grid fed street lighting in place of installation of solar street lamps, which may not be a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult.
ii. Further, in case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places.
iii. Further, considering the geographic location of the state and the huge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specifications of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. need to be ascertain before taking up the projects.
iv. It is also noted that that the basis of cost estimates taken in the proposals have not been indicated.

2. With regards to funding of these projects under MoP Schemes, it is to mention that several Govt. of India funded schemes like North-Eastern Region Power System Improvement Project (NERPSIP), IPDS and DDUGJY are going-on in the State for strengthening the sub-transmission & Distribution System. However, at present, these schemes are almost under completion stage and there is no scope of revision of scope of already approved schemes.

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3. As the power sector scope of works in the above proposals only cover the installation of solar street lighting at the 6 sites and the estimated cost is only 3% of total cost, M/O DONER may consider to include the funding of solar street lighting under these projects as an immediate arrangement, if these projects are approved by M/O DONER.

4. This has the approval of Joint Secretary (H).

Encl: As above,

17/6
(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 20.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur under NESIDS.

Please refer to your Office Memorandum No. NESIDS/2//2021-O/o US (NKS) dated 17.05.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl.No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road connectivity, water and power facilities at Dzuko Valley, Senapati District, Manipur	29.33	(a)In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b)No specifications of Road Pavement have been mentioned. (c)The MSA & CBR value is not mentioned for which the road is designed. (d) The formation width and carriageway width is not mentioned in Concept Notes. Apart from above common points, further for Project at Sl. No. 1, the provisions of Contingency @ 2%, Agency Charges @ 6.50% and Consultancy @ 2% has been taken. Programe Division may like to see. AND In Project at Sl. No. 5, there is a calculation mistake and total comes to Rs16.83 crores against Rs 20.01 crores. State Govt. may be asked to do the needful.
2.	Development of Infrastructure for Road Connectivity, Water Facilities, Power supply at Laiingthou Sanamahi Shanglen Complex at Wangoi, Imphal West district, Manipur	20.00	
3.	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru waterfall, Kangpokpi District, Manipur	20.36	
4.	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal District, Manipur	20.07	
5	Development of Infrastructures for road connectivity, power and water facilities at Vishnu Temple Complex, Bishnupur District, Manipur.	20.01	
6	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93	

This issued with the approval of Superintending Engineer (TW).

(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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ANNEXURE-Y

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)

Agenda Item No.: **State: Manipur**

Name of Project: Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East district, Manipur.

Project Description/Summary (not exceeding 200 words): The sacred shrine of Lord Sanamahi is located 1061 m above sea level flanked by various holy places at its foothill. The place is about 15 Km from Imphal and has motorable road till the temple. The surrounding of the temple has beautiful landscape but not yet properly developed. The approach road to the site is in bad shape and requires improvement and expansion. The site is used mainly for utsav/pujah by the devotees.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs.2093.69 lakh
1.2	**Whether lying in backward areas**	Not available
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Tourism infrastructure
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): Yes	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes, it is a new project. The project is not proposed in any other Minstries/Deptt.
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostal building), **has the SG agreed to take care of these activities**	On completion of the assets, management would be entrusted to local Committee/organization on revenue sharing basis. .
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**	Breakup of Major Components of the projects as per Concept Note (**figure in lakhs**)

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	Project Component & Estimate cost	Qty.	Rate	Amount
a	Expansion of Approach Road	4 km	8675	347.00
b	Retaining wall around the Temple	500 m	90945	454.72
c	Footpath	900 m	3167	28.50
d	Steel Railing	500 m	7200	36.00
e	Vehicle Parking	3500 m	2986000	110.85
f	Drinking water facilities	1 nos.	4167	29.86
g	Side drain	8 Km	9772	781.76
h	Pucca Culvert	3 nos.	4550000	136.50
i	Solar Street lamp	100 nos.	98000	98.00
j	Steps with steel railing	100 m	25500	25.50
k	Main Gate	1 nos.	4500000	45.00
			Total	2093.69
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any		Nil	
1.8	Date of receipt of proposal/concept note from State Government (SG)		29.04.2021	
1.9	Original			
1.10	Revised (if any)			
2	Is the project in question supported/coverable under any other scheme of Central or State Government		No	
3	Normative allocation of SG and related details			
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along			
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments		Date of receipt of comments (if any)
	IFD, MDoNER	13.05.2021		No comments received till date
	Technical Wing, MDoNER	13.05.2021		No comments received till date
	Ministry of Power	17.05.2021		17.07.201

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	Ministry of Housing & Urban Development	17.05.2021	No comments received till date
	Ministry of Jal Shakti	17.05.2021	No comments received till date
	Ministry of RD	17.05.2021	No comments received till date
	Ministry of R&HW	17.05.2021	No comments received till date
	Niti Aayog	17.05.2021	No comments received till date
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes. Concept paper is at p...../c	
	(b) Abstract of cost/Broad break up of costs	Yes, at p...../c	
	(c) Approval of CS	Yes.	
	(d) Any other (pl. specify)	Yes/No (relevant extract at page ___)	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)**		
7	**Important observations/comments of Prog. Division**		
	The objective of the project is to increase tourist footfalls at the site by way of improving the road connectivity & public utilities. The project after completion will provide opportunities for local employment and various service sectors. After due scrutiny, the PD recommends the proposal for consideration in the IMC.		

27/10/21
(Dated Signature & Name of Under Secretary concerned)

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Annexure-5

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of line Ministry/IFD /Technical Wing	Commens in brief	Resonse of SG/proposal submitting agency to the comments	Response of programme Division
1	Ministry of Power	Comments of Ministry of Power vide their OM dated 17.07.2021 is as under:- (i) the project proposals sites/areas are currently electrified or not. In case, the grid connectivity is is available at the project area, it would be better to install the grid fed street ligh in place of solar lamps, which may not a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult. (ii) In case grid connectivity is not available at these sites, it is suggested that Electricity Deptt. of Manipur should prepare a comprehensive proposal to provide grid supply to these sites from the nearest grid for encouraging the tourism at these places in place of temporary arrangement of solar lamps. As the road connectivity is also proposed under this project, the grid power supply can be easily provided at these famous tourist/religious sites from the nearest grid. It would also boost the tourism at these places. (iii) Further, considering the geographic location of the state and the hudge vegetation cover, availability of proper solar insolation also needs to be ascertained for proposed solar lamps. The technical specification of the solar street lamps like proposed solar battery capacity, backup time, lamp wattage etc. neet to be ascertain before taking up the projects. (iv) It is also noted that the basis of cost estimates taken in the proposals have not been indicated.	Yet to be received	
2	Ministry of Housing & Urban Developme nt			
3	Ministry of Jal Shakti			
4	Ministry of R&HW			
5	Ministry of RD			
6	Niti Aayog			
7	IFD, MDoNER			

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8	TW, MDoNER	Observation of TW, MDoNER is as under:- (a) In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit rate and mount (b) No specification of Road Pavement have been mentioned. (c) The MSA & CBR value is not mentioned for which the road is designed. Apart from above common points, further for project at Sl.No.1, the provisions of Contigency @ 2% , Agency Charges @ 6.50% and Consultancy @ 2% has been taken.	Reply awaited	

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CONCEPT NOTE"

Sl. No.	Items	Detailed Information				
A	General Information About	The Project				
I	Name of the project	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong , Imphal East district , Manipur.				
II	Location of the project	Sanjenbam Nongmaiching.				
III	Estimated cost of the project	**2093.69 lakh**				
IV	Introduction	The sacred shrine of Lord Sanamahi is located in the coordinate of 24⁰ 48' 18" N latitude and 94⁰ 02' 06" E longitude at an elevation of 1061 m above sea level flanked by various holy place at its foothill. The site has beautiful Temple of Lord Sanamahi at the middle of the Nongmaiching / Baruni Hill. The place is about 15 Km from Imphal and has motorable road till the temple. However, the road is narrow and need expansion. The surrounding of the temple has beautiful landscape but not yet properly develop. It required proper footpath , land development , railing of the temple ground etc . Hundreds of devotees, pilgrims thronged at the scared shrine during 1st day of year (Meitei Cheiraoba) every year and it became an established tourist hot spot for hundreds of budding researchers, birders from different states of the country . The site is used mainly for utsav / pujah of the devotees . However, the approach road to the site is in bad shape and required improvement and expansion.				
V	Objectives of the project	The project is aimed at promoting the connectivity, public utilities facilities for more inflow of tourists				
VI	Present Status	Presently, the site is a tourist destinations for prayer to God Sanamahi. Every year more than 5000 devotees visited the site per year.				
VII	Project component & Estimated Cost	Qnty.	Rate	Unit	Amount	Remarks
a	Expansion of Approach Road	4 Km	8675		347.00	
b	Retaining wall around the Temple	500 m	90945		454.72	
c	Footpath	900 m	3167		28.50	
d	Steel Railing	500 m	7200		36.00	
e	Vehicle Parking	3500 m	3167		110.85	
f	Drinking water facilities	1 no.	2986000		29.86	
g	Side drain	8 Km	9772		781.76	
h	Pucca Culvert	3 nos.	4550000		136.50	
i	Solar Street lamp	100 nos.	98000		98.00	
j	Steps with steel railing	100 m	25500		25.50	
k	Main Gate	1 no.	4500000		45.00	
				Total :	**2093.69**	

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VIII	Physical Target/Benefit	The project after completion will provide a comfortable road to the visitors and help in providing employment to local youths , devotees .
IX	Project duration	2 yrs.
X	Phasing	Phase 1st — Year 2018-19 — Physical 40% — Financial Phase 2nd — Year 2019-20 — Physical 60% — Financial
XI	Method of Implementation	By entrusting to an appropriate engineering agency decided by the Government.
XII	Status of Land	Available
XIII	Status of preparedness	By taking up this project, there will be no damage to the environment as it will be planned in an eco-friendly manner. The department is ready to take up the project.
XIV	Maintenance	On completion, the assets, management would be entrusted to local committee.
XV	Justification for taking the project	Lord Sanamahi is an important Meetei God firmly believed by the community. Prayer for day to day works , aim of one's life , remedies of various wrong doing are the reasons for praying the god. The project aimed to provide convenient and comfortable road , surrounding, value addition to the sacred site. The project will provide beautiful retaining wall to save from soil erosion, footpath around the temple , steps to reach the multipurpose hall from the temple . Eco-tourism project is most desirable in view of present context of Tourism industry in Manipur. The area is bounded by natural settings and cultural value at the area. The present proposal is required to facilitate Tourists and for more inflow of tourists.
XVI	Techno-Economic viability	Tourism is closely associated with the economic growth of the region/ areas. The project after completion will surely will provide opportunities for local employment and various service sectors.
XVII	Funding	The proposals is presented to the Ministry of DoNER for funding under NESIDS.

ADDRESSED

Director (Tourism),
Manipur

Commissioner(Tourism),
Govt. of Manipur.

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LAMING HOUSE NAMA HLAKNONG HONG KONG (TEMPLE)
Image Landsat / Copernicus
Image Date: 11/9/2021
Google Earth

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F.No. 14-15/7/2021-H.I(256932)
Government of India
Ministry of Power
*****

Shram Shakti Bhawan, Rafi Marg
New Delhi dated 17th June, 2021

OFFICE MEMORANDUM

Subject: Project Proposal submitted by Government of Manipur under NESIDS- Reg.

The undersigned is directed to refer to Ministry of DoNER's O.M. No. NESIDS /2/2021- O/o US(NKS) dated: 17/05/2021 on the subject mentioned above and to state that there is no duplication of work (as mentioned in project proposal) with this Ministry. In this connection, CEA after examining the proposal has offered its following comments/suggestions (copy enclosed):

i. It is not clear from the project proposals whether these project sites /areas are currently electrified or not. In case, the grid connectivity is available at the project areas, it would be better to install the grid fed street lighting in place of installation of solar street lamps, which may not be a reliable solution as the regular maintenance/replacement of the lamps, solar panels and associated battery system would be difficult.
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iv. It is also noted that that the basis of cost estimates taken in the proposals have not been indicated.

2 With regards to funding of these projects under MoP Schemes, it is to mention that several Govt. of India funded schemes like North-Eastern Region Power System Improvement Project (NERPSIP), IPDS and DDUGJY are going-on in the State for strengthening the sub-transmission & Distribution System. However, at present, these schemes are almost under completion stage and there is no scope of revision of scope of already approved schemes.

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4. This has the approval of Joint Secretary (H).

Encl: As above,

(Mukesh Sawhney)
Under Secretary (H-I)
Telefax: 23324357

Shri N.K. Saha
Under Secretary to the Government of India
Ministry of Development of North Eastern Region
Level-IV, Block-10, R. K. Puram Sector-I,
New Delhi -110066
Email: nitai.kumar@gov.in
Mob: 7908657519

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region
.....

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 20.05. 2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur under NESIDS.

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Sl.No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road connectivity, water and power facilities at Dzuko Valley, Senapati District, Manipur	29.33	(a)In abstract of cost, length of road, cost per km and amount has been mentioned whereas in abstract of cost there should be quantity, unit, rate and amount. (b)No specifications of Road Pavement have been mentioned. (c)The MSA & CBR value is not mentioned for which the road is designed. (d) The formation width and carriageway width is not mentioned in Concept Notes. Apart from above common points, further for Project at Sl. No. 1, the provisions of Contingency @ 2%, Agency Charges @ 6.50% and Consultancy @ 2% has been taken. Programe Division may like to see. AND In Project at Sl. No. 5, there is a calculation mistake and total comes to Rs16.83 crores against Rs 20.01 crores. State Govt. may be asked to do the needful.
2.	Development of Infrastructure for Road Connectivity, Water Facilities, Power supply at Laininghou Sanamahi Shanglen Complex at Wangoi, Imphal West district, Manipur	20.00	
3.	Development of Infrastructure for road connectivity, power and water facilities at Sadu Chiru waterfall, Kangpokpi District, Manipur	20.36	
4.	Development of Infrastructures for road connectivity, power and water facilities at Gwarok Mahadev Temple Complex, Thoubal District, Manipur	20.07	
5	Development of Infrastructures for road connectivity, power and water facilities at Vishnu Temple Complex, Bishnupur District, Manipur.	20.01	
6	Infrastructure Development of Road Connectivity, Water facilities, Power supply at Sanamahi Kiyong, Imphal East District, Manipur	20.93	

This issued with the approval of Superintending Engineer (TW).

20/5/2021
(Parveen Kumar)
Executive Engineer (TW)

To

Shri N.K. Saha, US, M/o DoNER, R.K. Puram, New Delhi

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DFA/115909 (Attachment : Annexure G_1636135449968_547.pdf)

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Annexure AA

31st meeting of IMC/NESIDS Committee scheduled on 29/10/2021 I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)			
Agenda Item No.:		**State: Meghalaya**	
Name of Project: Construction of a Road from Shillong city to umroi Airport			
Project Description/Summary:-The project proposal with a total road length of 13.00 Km starts from 2nd KM of Mawlai Bypass road and will connect Shillong city with umroi Airport and passing through Umsaw, Umphrew and Umrynjah villages in a single stretch. It will be the shortest and most favoured route between Shillong city and Umroi Airport (the only airport in the State).			
	Stage 1: Retention/Selection of the Project		
1	**General Information**		
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 50 crore	
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper	
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Road	
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): The road will pass through picturesque landscapes, picnic spotsm scenic viewpoints like Sweet Hill's top and Lovely River bed, Sunshine farm and numerous guest houses/home stays. The main objective of the project is to attract national and international travellers to the state.		
	Not applicable		
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes/No, if Yes, describe briefly	Yes, it is a New Project.

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1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostel building), has the SG agreed to take care of these activities		No such component is included in the abstract of cost.
1.7	Broad Breakup of Major Components of the project Cost as per concept note		
	Items of work		Approximate Cost (in Rs.)
1	Construction Work		
	Earthwork including C/D works		120,000,000.00
	Construction of Bridges		110,000,000.00
	Metal ling and Balck toping (BM & MC) inlcuding Road Furnitures		269,600,000.00
	A. Total		499,600,000.00
	B. Add D.P.R Appraisal and sub-soil investigation (Lumpsum)		400,000.00
	Total		500,000,000.00
	say Rs. 50 crores		
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	Not mentioned in the concept paper	
1.8	Date of receipt of proposal/concept note from State Government (SG)		-
1.9	Original		27.05.2021
1.1	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	Not mentioned in the concept paper	
3	Normative allocation of SG and related details	• Normative allocation for 2020-21:- ₹ 129.12 crore	
		• Projects already selected/sanctioned – 3.65 crore	
		• Available funds :- ₹ 125.47 crore	

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4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	IFD, MDoNER	30.06.2021 & 14.10.2021	comments awaited
	Technical Wing	30.06.2021 & 14.10.2021	26.10.2021
	Ministry of Road Transport and Highways	30.06.2021 & 14.10.2021	comments awaited
	NITI Aayog	30.06.2021 & 14.10.2021	comments awaited
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	Copy of concept note is annexed.
	b) Abstract of cost/Broad break up of costs	Yes	Yes, included in the Concept Note
	(c) Approval of CS	Yes	Forwarded by Planning Department after approval of CS
	(d) Any other (pl. specify)	NA	-
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief - (attached as per Annexure)**		
7	**Important observations/comments of Prog. Division:-**		
	This is a road project with a total length of 13.00 Km starts from 2nd KM of Mawlai Bypass road and will connect Shillong city with umroi Airport and passing through Umsaw, Umphrew and Umrynjah villages in a single stretch. It will be the shortest and most favoured route between Shillong city and Umroi Airport. Programme division found the project in order.		

Date:-

27.10.21

Dated signatures of Under Secretary concerned

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of the line Ministry/IFD/Technical Wing, MDoNER	Comments in brief	Response of SG/proposal submitting agency to the comments	Response of programme Division
1	2	3	4	5
1	Technical wing	1) In the cost estimate total amount of the different component has been mentioned. No details have been provided. 2) The MSA and CBR Value is not mentioned. 3)No specification of road that is thickness of the different layers has not been mentioned.		State Government has been requested to provide the clarification on the comments of Technical wing.

27/10/21

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GOVERNMENT OF MEGHALAYA
PLANNING DEPARTMENT
****

No.PLR.45/2021/19 Dated Shillong, the 27th May, 2021

To: The Joint Secretary,
Ministry of Development of North Eastern Region,
Vigyan Bhawan Annexe, Maulana Azad Road,
New Delhi - 110011

Subject: Submission of prioritized list of projects for selection / sanction for the financial year 2021-22 under NESIDS

Sir,

I am directed to refer to your letter F.No.NESIDS/6/2019-O/oDIR1(NLCPR) dated 16-03-2021 on the above mentioned to submit herewith the list of prioritized project for funding under NESIDS during the financial year 2021-22 as detailed below:

Sl. No.	Name of the project	Cost (₹ in crore)
1.	Construction of a road from Shillong City to Umroi Airport	50.00
2.	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60 Kms)	66.54
3.	Setting up of the State of the Art Diagnostic Centre, Tura	27.51
4.	Greater Mawkyrwat Water Supply Scheme	72.00
	Total	216.05

The concept papers of the above proposals are also enclosed herewith for your kind information.

This has the approval of the Chief Secretary, Government of Meghalaya.

Enclo.: As above.

Yours faithfully,

(R. Lyngdoh)
Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department
****

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Memo No.PLR.45/2021/19-A

Dated Shillong, the 27th May, 2021

Copy to:

1. P.S. to the Chief Secretary, Government of Meghalaya, Shillong for kind information of the Chief Secretary.
2. P.S. to the Additional Chief Secretary, Government of Meghalaya, i/c Public Health Engineering Department / Public Works Department, Shillong for kind information of the Additional Chief Secretary.
3. The Principal Secretary to the Govt. of Meghalaya, Health & Family Welfare Department, Shillong for kind information.
4. The Chief Engineer, PWD (Roads) / PHE, Government of Meghalaya, Shillong for kind information.
5. The Director, Health Services (MI), Government of Meghalaya, Shillong for kind information and necessary action.

By order etc.,

Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department

****

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GOVERNMENT OF MEGHALAYA
PUBLIC WORKS DEPARTMENT (ROADS)

CONCEPT PAPER

FOR

CONSTRUCTON OF A ROAD FROM SHILLONG TO UMROI AIRPORT.

UNDER NESIDS
(NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME)

(L = 13.00 KM)

ESTIMATED COST: - Rs. 50,00,00,000.00 CRORE

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GOVERNMENT OF MEGHALAYA
PUBLIC WORKS (ROADS) DEPARTMENT

****

"CONCEPT PAPER"

STATE	:	**MEHGALAYA**
DISTRICT	:	**RIBHOI**
Division	:	**UMSNING DIVISION UMSNING**
DEPARTMENT	:	**PUBLICWORKS DEPARTMENT(ROADS)**
NAME OF PROJECT	:	**CONSTRUCTON OF A ROAD FROM SHILLONG CITY TO UMROI AIRPORT.**

TOTAL LENGTH: 13.00 KM

ESTIMATED AMOUNT : ₹. 50,00,00,000.00 Crore

1. Background and problem to be addressed: -

This proposed road project with a total length of 13.00 Km starts from 2nd km of Mawlai Bypass road and will connect Shillong city with Umroi Airport and passing through Umsaw, Umphrew and Umrynjah villages in a single stretch. It will be the shortest and most favored route between Shillong city and Umroi Airport (The only airport of the State). On completion of this road, the travel time from the airport to the city will be greatly reduced. It will also help in easing the road congestion along the much-congested NH 40. This road will pass through picturesque landscapes, picnic spots, scenic viewpoints like Sweet Hill's top and Lovely River bed, Sunshine farm and numerous guest houses / home stays. As of today, Umroi airport is connected with direct flights to Delhi and Kolkata. It is expected that in near future this Umroi Airport will be provided with connectivity with other cities in the North

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East part of India. The presence of health institution like NEIGRIHMS, Paramedical Institute (NEIAH), Management Institutes (IIM, IHM, NIFT), Agricultural and various other Training Institutes for farmers, Military Camps at Rangmen; along with their staffs, patients, para militaries etc. is also a point to be considered. Those who travel for treatment and studies into these institutes can use this proposed shorter road and also avoiding traffic congestion on the NH 40. Taking into consideration the aforesaid mentioned factors, the State Government is very keen to take up the project in order to ease the movement road users and to avoid any delay for the air commuters. The technical design of this road will withstand and serve all types of vehicles for transportation of resources like stones, sands, coal and various types of agricultural and forest products.

2. **Importance: -**

The State of Meghalaya, situated in the North-Eastern corner of the country, is a hot spot for the tourists for its mesmerizing panoramic views. It shares its border with the States of Assam at its north and east, and with Bangladesh in south and west. Bounded with lush green forests, hilly terrains and valleys, beautiful lakes and rivers, and exotic wildlife species, the beauty of Meghalaya is worth cherishing. Meghalaya is all about the mountains and peaks, the caves and falls and the cane and bamboo handicrafts. Shopping here is a delightful experience. People here are very hospitable. Shillong Peak is located 10 km away from Shillong city. The Shillong peak is the highest point in Meghalaya with a height of 1,961 m above sea level. Magnificent landscapes with lush green forests make it an ideal tourist spot. It is also an ideal picnic spot and offers breath-taking bird's eye view of the Shillong city and the scattered villages around the peak. Krem Liat Prah Cave in Jaintia Hills is the longest cave in Meghalaya, as well as India, and is listed among the longest caves in the world. Nohkalikai falls near Cherrapunji is the India's highest plunge type waterfall and a must-see tourist spot. The other prominent (to name a few) tourist places in Meghalaya are:

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Umiam Lake
Laitlum Canyons
Living Root Bridge of Nongriat
Dain Thlen Falls
Mawlynnong village deemed as the cleanest village
Krang Suri falls
Elephant Falls
All Saints church and the Cathedral of Mary at Don Bosco, Shillong
Construction of this alternative road to the airport will further enhance the tourism potential of the State.

3. Objective:

The main objective of the scheme/project is to attract national and international travelers to the State. Due to the lack of good road infrastructure over the years, the people have been subjected to tremendous hardship. This project has been proposed for consideration for funding under NESIDS with the objective to promote the tourism of the State which will generate revenue and employment for the local people and educated youths.

4. Proposal:

The main provisions for this project are: -

1. Jungle Clearing
2. Earthwork
3. Major/Minor RCC Bridges
4. Hume pipe NP4 and Slab Culvert
5. R/Wall and B/Wall
6. Pucca Drain
7. MBT
8. Road Signages and road furniture, Passengers Sheds
9. Crash Bearers

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5. Construction materials:-

Construction materials required for the project like Good stones, Stone Chips, Sand, blindage etc. are locally available from the existing approved quarries.

6. Land availability: -

Land required for the purpose will be made available free of cost. Hence land compensation is not necessary.

7.Environmental impact:

a) The Alignment of this proposal will have least impact on environment. Proposed road, when completed, will be an addition to the aesthetics activities of the area and it will be a privilege to the state.

b) Environmental Sensitive Area (National Park, Wild Life Sanctuary, Protected Reserve Forest, Wet land etc.): **Does Not Arise.**

c) Construction Camp: Construction camps will be established away from forest area/water body. The minimum facilities such as water supply, sanitation, storm water drainage, solid waste management and first aid box will be provided during the construction period of the project.

d) Permit / Clearance required prior to commencing of civil work:

- No objection Certificate: This will be taken by Department/Division from State Pollution Control Board.
- Borrow area: The filling soil will have to be procured from borrow pit. Borrow area will be so excavated that the land can reused as agricultural field. The depth of borrow pit shall not exceed 450 mm (150 mm top soil included). The top soil shall be stripped and stacked and shall be spread back on the land. As far as possible the borrow pits shall not be dug close to the road embankment. The redevelopment of borrow area will be done before closure of the same and it will be as per agreement between landowner and the Contractor.

Erosion Control: Turfing of the embankment slopes and earthen shoulder to

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prevent erosion of slopes of the embankment, rain cuts and erosion of shoulder is being suggested.

Drainage: Suitable cross drainage structures have been provided on the basis of hydrological survey of the area. So, there will be no obstruction to the natural drainage of the area. Road side drainage and cross Drain are considered to drain all the surface water/rain water to the low-lying areas without affecting the environment. Construction of bridges are proposed where the alignment of the road passes through deep ravines without damaging the water bodies.

8. Benefits:

Once the Project is taken up and consequently after completion, the target beneficiaries will be the people of the areas in particular and of the State and the Air commuters as a whole. Besides, the interstate travelers and transporters will be also benefited from this project. It is anticipated that this project will definitely improve the economy of the society, especially the weaker sections, since it will enhance the Tourist Industry of the State.

9. Execution and management of the project:-

The State PWD (Roads) will be the agency to execute the work using the available man power and resources of the present organization. The Public Works Department has all the required expertise to execute the work and is capable to handle and provide a good management plan for both physical and financial matters. The execution of the work will be carried out through qualified contractors who can manage to take up the work at the least minimum time by combining manual labour and mechanization. The use of local labour and materials will be encouraged in order to provide employment to the local populace and mechanization also will be encouraged to achieve quick progress and good quality within 24 months.

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10. Resources:

Since this is a major road project and will also involve huge expenditure the government is in no position to sanction for the same from its meagre resources. As such for the improvement and rehabilitation of this road, assistance has been sought from the **North Eastern Special Infrastructure Development Scheme (NESIDS).**

11.Schedule of rates:

The DPR of the project will be prepared as per the current Schedule of rates of Meghalaya P.W.D (Roads).

12.**Cost Estimate :**

Sl. No	Items of work	Approximate Cost (In Lakhs)
1	**Construction Work**	
	Earthwork Including C/D works	Rs.12,00,00,000.00
	Construction of Bridges	Rs.11,00,00,000.00
	Metal ling and Black topping(B M & BC) including Road Furnitures	Rs.26,96,00,000.00
	A. Total =	Rs. 49,92,00,000.00
	B. Add D.P.R Appraisal and sub soil investigation (Lumpsum)	Rs. 4,00,000.00
	Grand Total	Rs. 50,00,00,000.00

13. Time Frame:

The project is targeted to be completed by December 2023 taking the financial year 2021-2022 as the starting year. On sanctioning the project, tender will be invited by the competent Authority and work will be allotted accordingly after observing all formalities.

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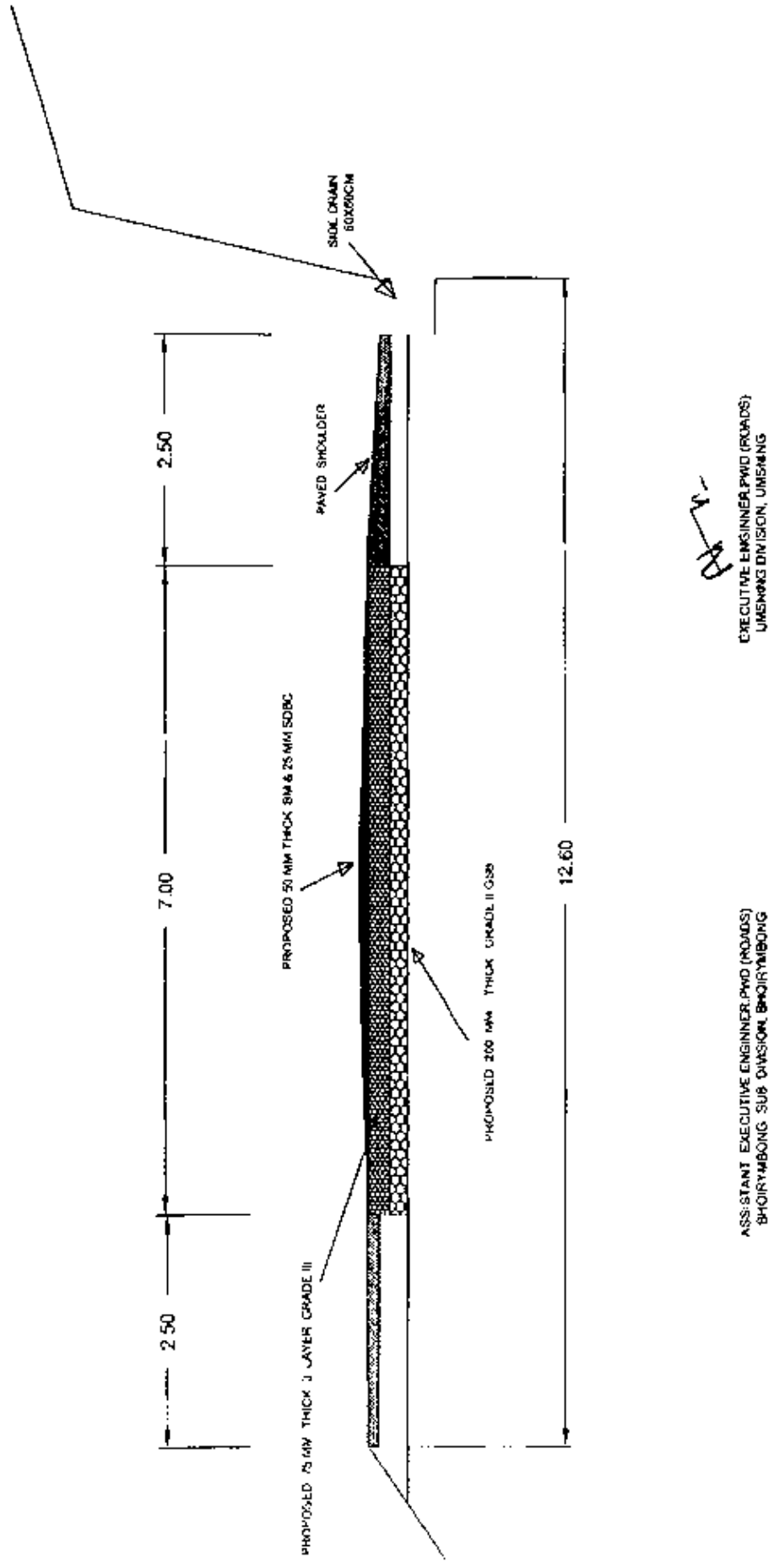
YEAR	PHYSICAL PHASING	FINANCIAL PHASING (in Rupees)
2021-2022	40%	Rs.20,00,00,000.00 Crores
2022-2023	60%	Rs.30,00,00,000.00 Crore
	TOTAL =	Rs. 50,00,00,000.00 Crore

(Rupees Fifty Crores) Only.

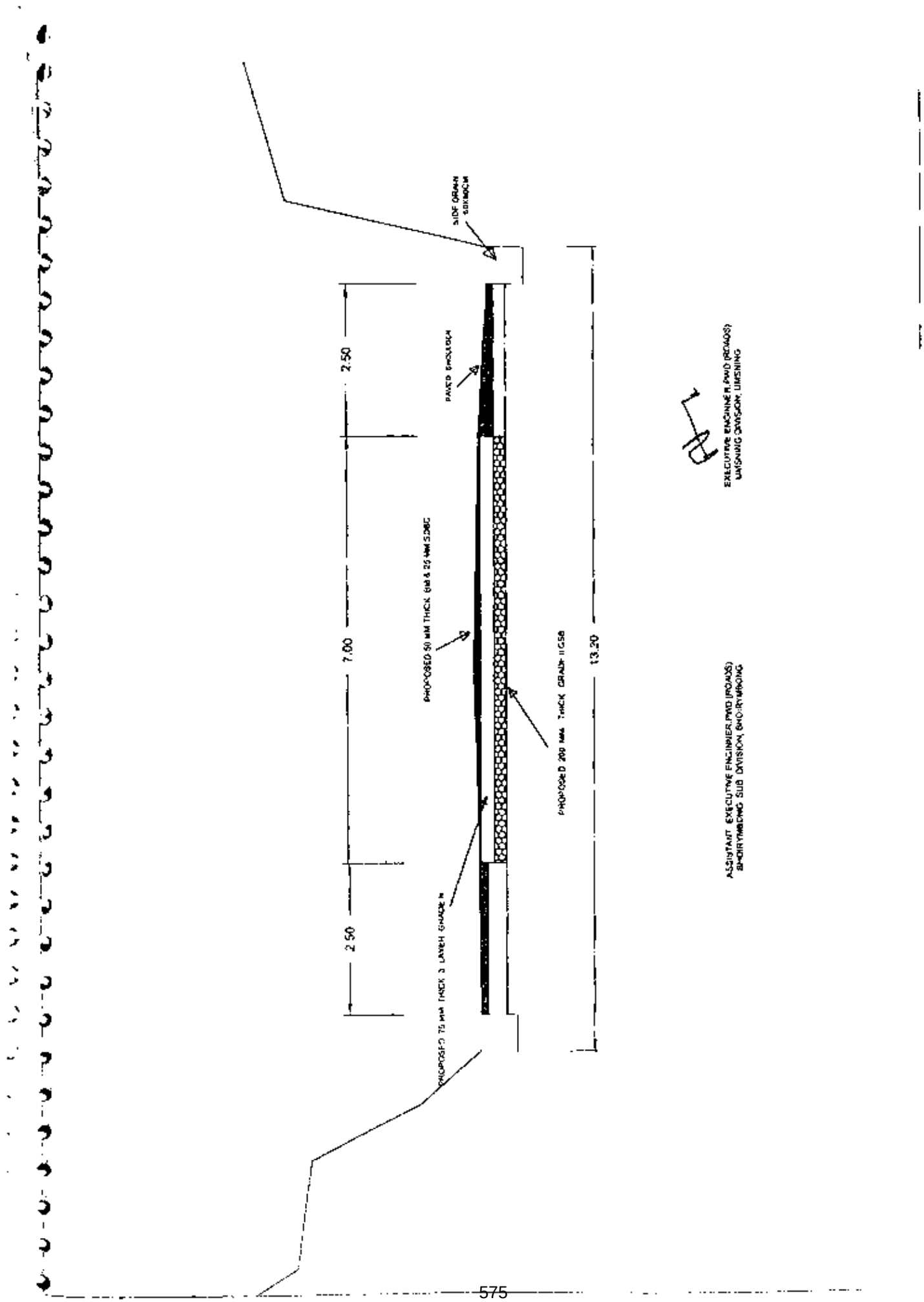
Chief Engineer
P.W.D. (Roads),
Meghalaya, Shillong

(R.Kharkongor)
Executive Engineer PWD(Roads)
Umsning Division, Umsning

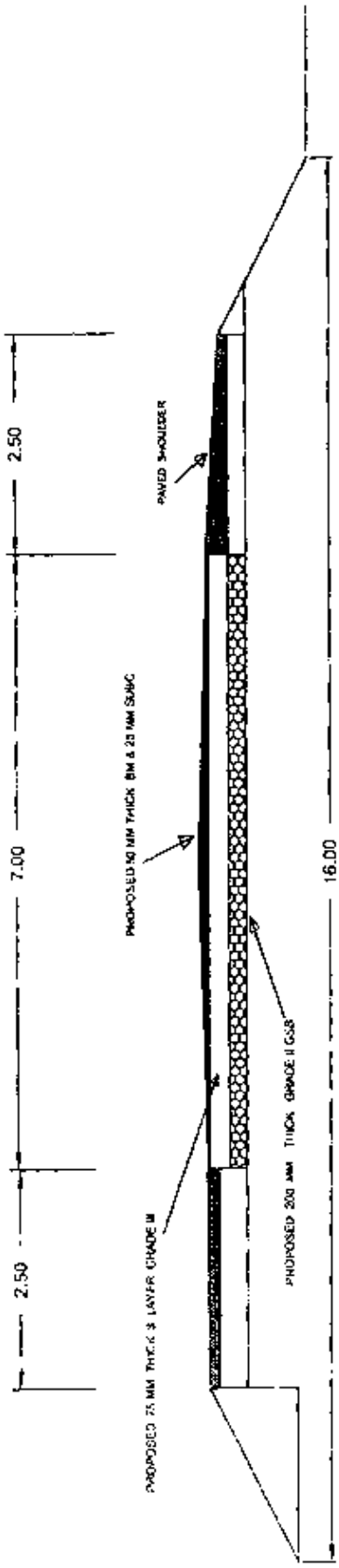
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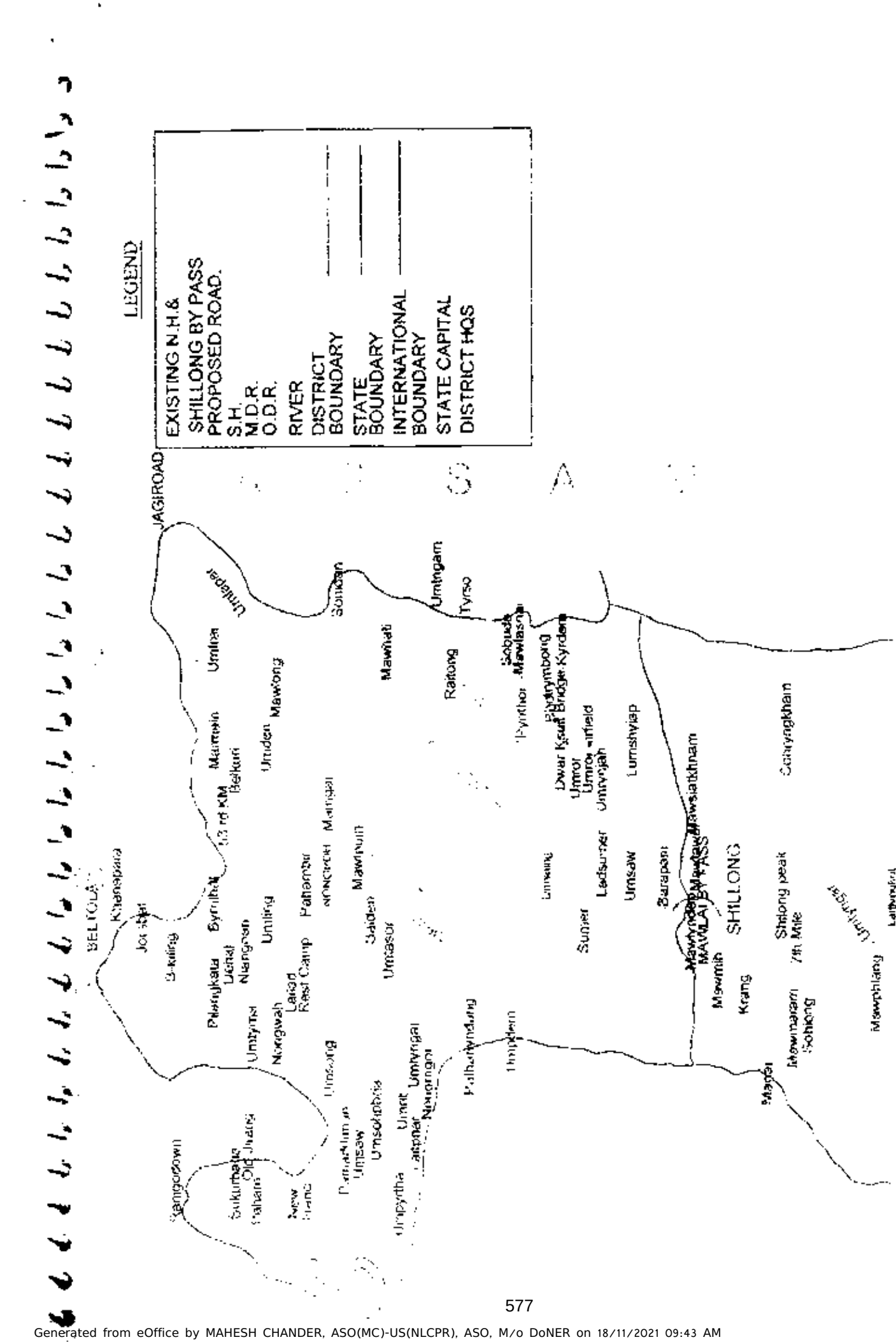
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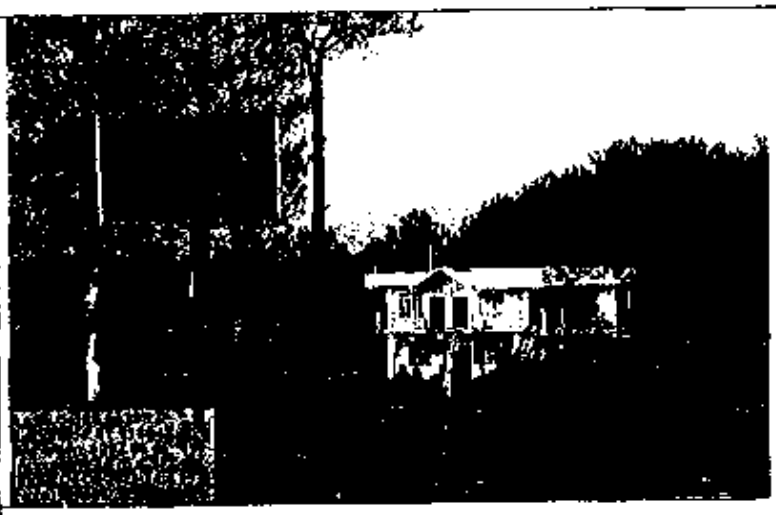
EXECUTIVE ENGINNER,PWD (ROADS)
UMSNING DIVISION, UMSNING

ASSISTANT EXECUTIVE ENGINNER PWD (ROADS)
DHORYAMBONG SUB DIVISION, RHORYMBONG

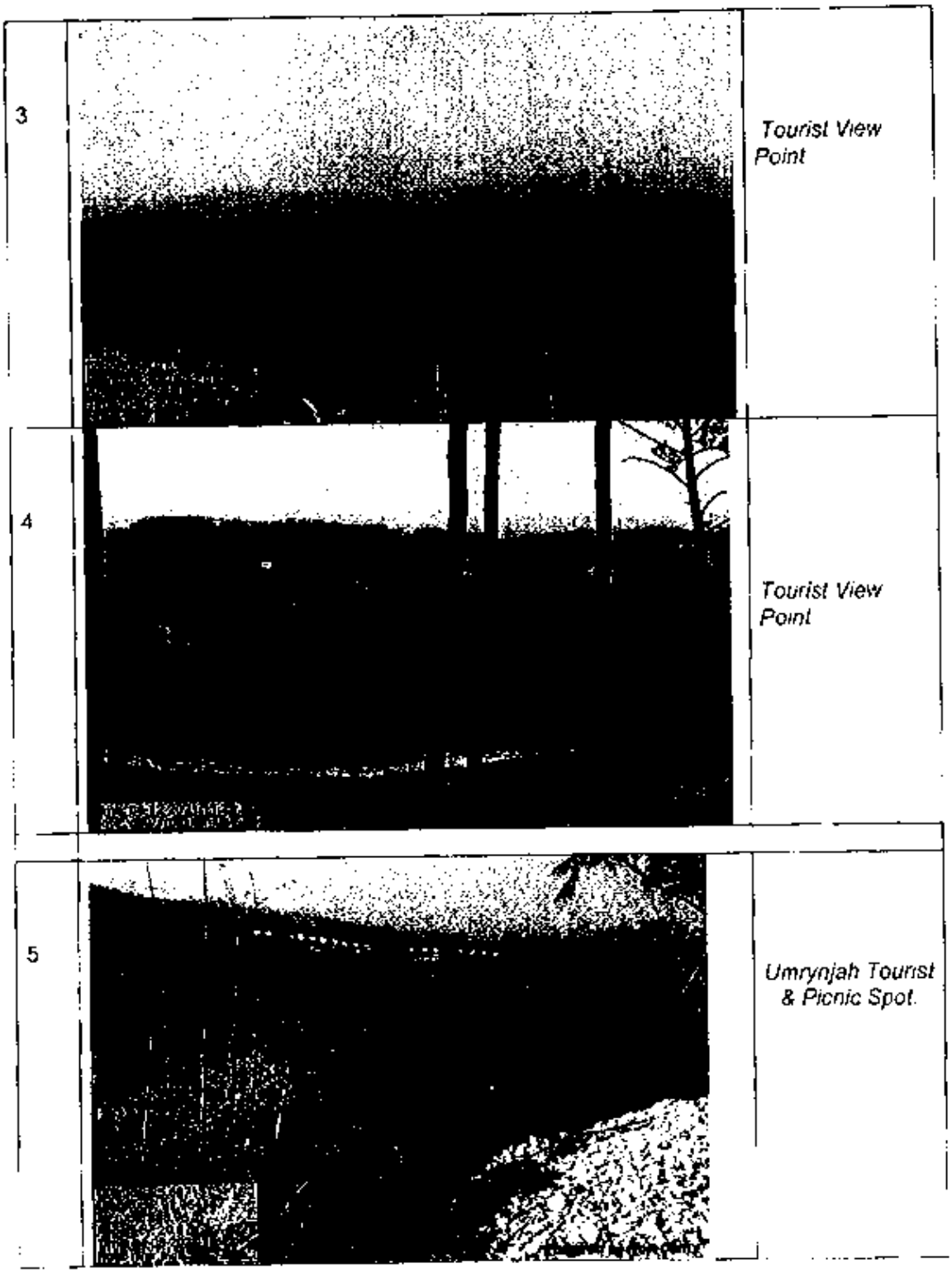
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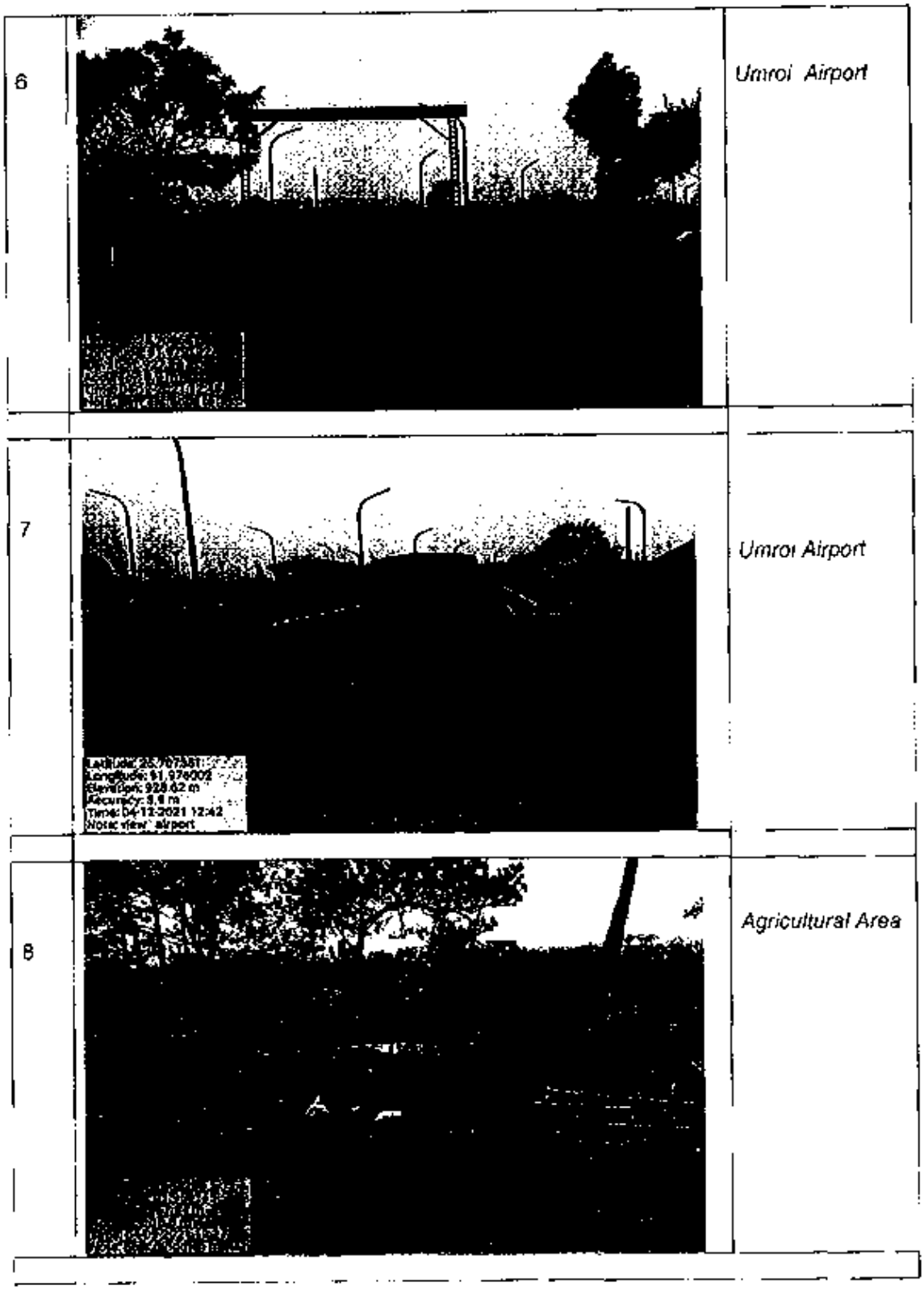
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Sl No	PHOTOGRAPHS	
1		Starting Point from Mawlai Bypass
2		Tourist Spot

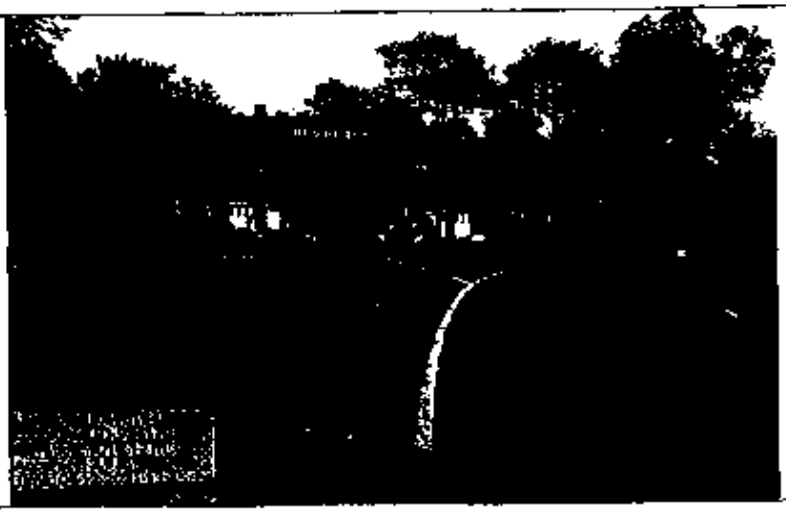
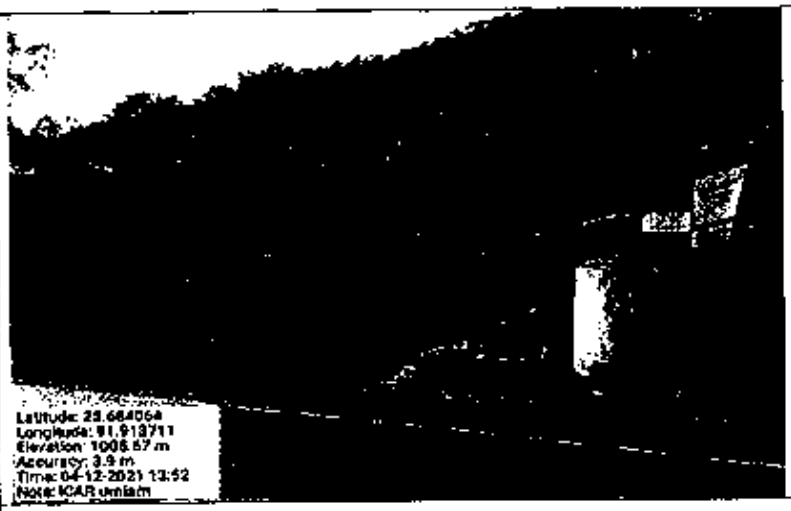
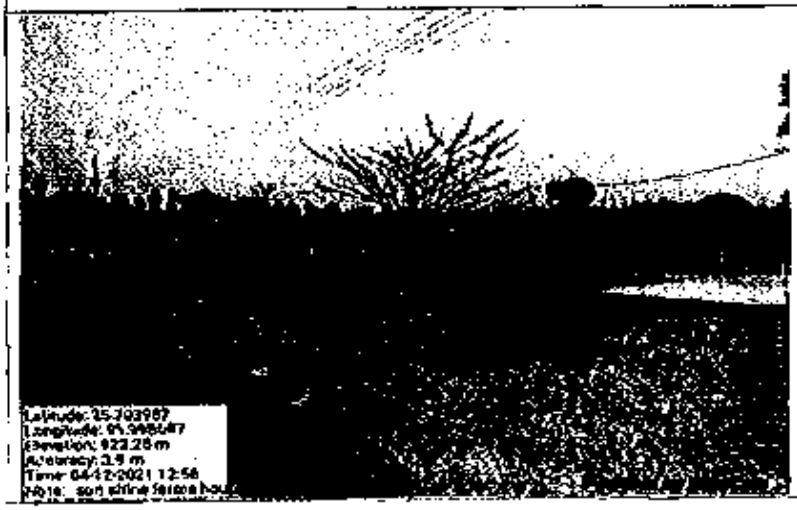
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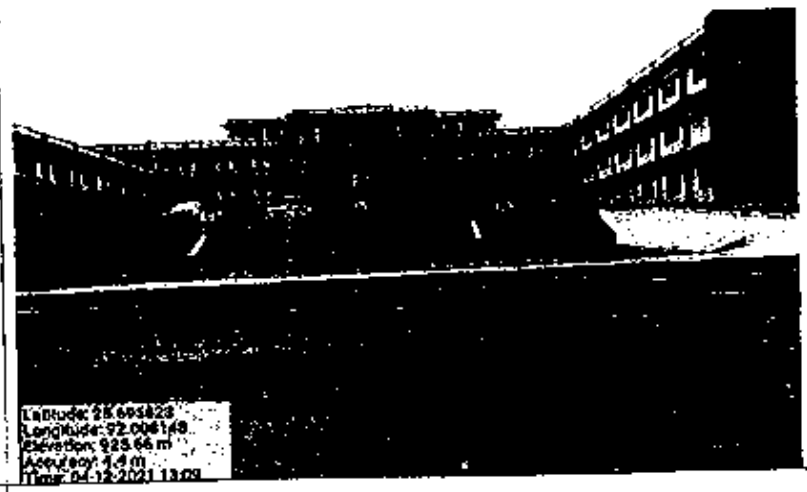
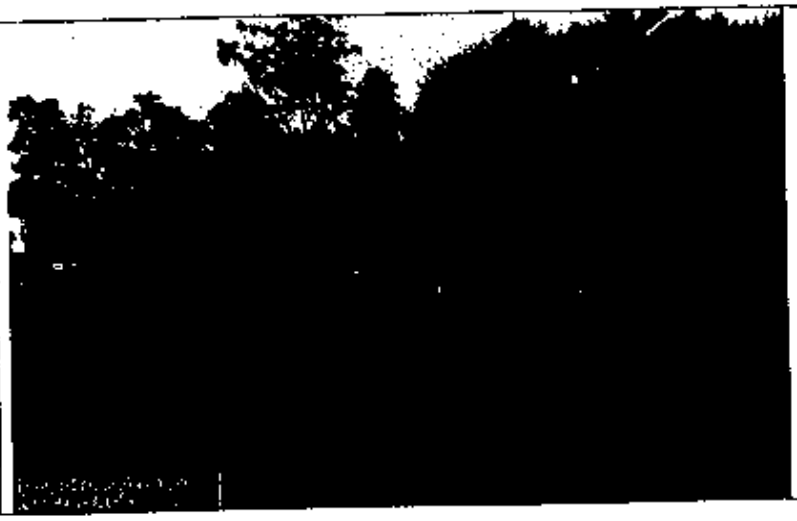
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9		*Location of Red Horns Military Nearby.*
10		*Location of ICAR Nearby.*
11		*Tourist Spot at Nonglykhiat*

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12		*Education centre at Nonglkhiat*
13		*End point connecting Shillong bypass.*

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 26.10.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Meghalaya under NESIDS for F.Y. 2021-22.

Please refer to your Office Memorandum No. NESIDS-14012/1/2021-O/o US (NLCPR) dated 14.10.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road from Shillong City to Umroi Airport	50.00	1) In the cost estimate total amount of the different component has been mentioned no details have been provided. 2) The MSA and CBR value is not mentioned. 3) No specification of road that is thickness of the different layers has not been mentioned. State Government may be requested to provide the above mention details/ clarification.
2.	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 km = 32.60 kms)	66.54	1) In the cost estimate total amount of the different component has been mentioned no details have been provided. 2) The MSA and CBR value is not mentioned. 3) No specification of road that is thickness of the different layers has not been mentioned. 4) Rs. 50 Lakhs DPR appraisal cost has been added in the estimate cost which seems to on hire side. State Government may be requested to provide the above mention details/ clarification.

26/X/2021

(G.S.Maheshwal)
Superintending Engineer (TW)

To
Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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Annexure 2.

31st meeting of IMC/NESIDS Committee scheduled on 29/10/2021 **I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS** **(to be submitted by Programme Division, MDoNER)**		
Agenda Item No.:	**State: Meghalaya**	
Name of Project: Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km) =32.60 Kms) under NESIDS		
Project Description/Summary:-Agia Medhipara Phulbari Tura (AMPT) Road is important and one of the oldest roads in the State of Meghalaya. The AMPT road is an interstate road serving for both the States of Meghalaya and Assam. The main objective of this road is to improve the AMPT roads by providing strengthening the existing pavement, pucca side drains, footpath with railing, protection and CD works and also Earth work on the road.		
	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 66.54 crore
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Road
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): The important tourist spots which are enroute to AMPT Road are Archelogical place at Wadagokgre and the Godess Ma Charontola temple at Haldibari where many believers and devotees are worship every year from different parts of the country. The historical age old Godess Ma Kamakhya temple at Mankachar in Assam also enroute to AMPT Road and visitors are travelling by the AMPT Road to Worship the Godess Ma Kamakhya in Mankachar. The highest Peak Nokkrek in the region and the Balpakram National park are also very important tourist place of the district as well in the state of Meghalaya and the AMPT Road by being its location provides greater connectivity from the district to the other part of the country as well in the North Eastern state in particular.	
	Not applicable	

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1.5	Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing	Yes/No, if Yes, describe briefly	Yes, it is a New Project.
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g running of a Hostel building), has the SG agreed to take care of these activities		No such component is included in the abstract of cost.
1.7	Broad Breakup of Major Components of the project Cost as per concept note		
	Items of work		Cost Rs. (in Lakhs)
i)	Earth work (Excavation/Filling)		822.63
ii)	Metalling and Black topping (WMM/DBM		4,307.32
iii)	CD Work (HP NP-4 and Box Culvert)		385.22
iv)	Protection work (R/B Wall)		131.32
v)	Drain / Foothpath		588.99
vi)	Road furniture		368.21
	Total		6,603.69
vii)	DPR Appraisal		50.00
	Grand Total		6,653.69
	say Rs. 66.54 crores		
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	Not mentioned in the concept paper	
1.8	Date of receipt of proposal/concept note from State Government (SG)		-
1.9	Original		27.05.2021
1.1	Revised (if any)		25.10.2021
2	Is the project in question supported/coverable under any other scheme of Central or State Government	Not mentioned in the concept paper	

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3	**Normative allocation of SG and related details**	• Normative allocation for 2020-21:- ₹ 129.12 crore	
		• Projects already selected/sanctioned – 3.65 crore	
		• Available funds :- ₹ 125.47 crore	
4	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	IFD, MDoNER	30.06.2021 & 14.10.2021	comments awaited
	Technical Wing	30.06.2021 & 14.10.2021	26.10.2021
	Ministry of Road Transport and Highways	30.06.2021 & 14.10.2021	comments awaited
	NITI Aayog	30.06.2021 & 14.10.2021	comments awaited
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	Copy of concept note is annexed.
	b) Abstract of cost/Broad break up of costs	Yes	Yes, included in the Concept Note
	(c) Approval of CS	Yes	Forwarded by Planning Department after approval of CS
	(d) Any other (pl. specify)	NA	-
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief - (attached as per Annexure)**		
7	**Important observations/comments of Prog. Division:-**		
	Agia Medhipara Phulbari Tura Road is important and one of the oldest roads in the State of Meghalaya. The AMPT road is an interstate road serving for both the State Meghalaya and Assam. Programme Division has found the proposal in order.		
	Date:- 27/10/21		
	Dated Signature of Under Secretary concerned		

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				Annexure
Comments of consulted line Ministries/IFD/Technical Wing, MDoNER				
Sl.No.	**Name of the line Ministry/IFD/Technical Wing, MDoNER**	**Comments in brief**	**Response of SG/proposal submitting agency to the comments**	**Response of programme Division**
1	2	3	4	5
1	Technical wing	i) In the cost estimate total amount of the different component has been mentioned. No details have been provided 2) The MSA and CBR value is not mentioned 3) No specification of road that is thickness of the different layers has not been mentioned 4) Rs. 50 Lakhs DPR, appraisal cost has been added in the estimate cost which seems to on hire side.		State Government has been requested to provide the reply of the comments of Technical wing.

27/10/21

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GOVERNMENT OF MEGHALAYA
PLANNING DEPARTMENT
****

No.PLR.45/2021/19 Dated Shillong, the 27th May, 2021

To: The Joint Secretary,
Ministry of Development of North Eastern Region,
Vigyan Bhawan Annexe, Maulana Azad Road,
New Delhi - 110011

Subject: **Submission of prioritized list of projects for selection / sanction for the financial year 2021-22 under NESIDS**

Sir,

I am directed to refer to your letter F.No.NESIDS/6/2019-O/oDIR1(NLCPR) dated 16-03-2021 on the above mentioned to submit herewith the list of prioritized project for funding under NESIDS during the financial year 2021-22 as detailed below:

Sl. No.	Name of the project	Cost (₹ in crore)
1.	Construction of a road from Shillong City to Umroi Airport	50.00
2.	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60 Kms)	66.54
3.	Setting up of the State of the Art Diagnostic Centre, Tura	27.51
4.	Greater Mawkyrwat Water Supply Scheme	72.00
	Total	216.05

The concept papers of the above proposals are also enclosed herewith for your kind information.

This has the approval of the Chief Secretary, Government of Meghalaya.

Enclo.: As above.

Yours faithfully,

(R. Lyngdoh)
Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department
****

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Memo No.PLR.45/2021/19-A Dated Shillong, the 27th May, 2021

Copy to:

1. P.S. to the Chief Secretary, Government of Meghalaya, Shillong for kind information of the Chief Secretary.
2. P.S. to the Additional Chief Secretary, Government of Meghalaya, i/c Public Health Engineering Department / Public Works Department, Shillong for kind information of the Additional Chief Secretary.
3. The Principal Secretary to the Govt. of Meghalaya, Health & Family Welfare Department, Shillong for kind information.
4. The Chief Engineer, PWD (Roads) / PHE, Government of Meghalaya, Shillong for kind information.
5. The Director, Health Services (MI), Government of Meghalaya, Shillong for kind information and necessary action.

By order etc.,

Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department

****

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1.Name of the Project and its Location	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60Kms) under NESIDS in the State of Meghalaya
2.Estimated Cost (Rs in lakhs) along with the	₹ 6,653.69
3.Stipulated date of completion of the Project	4 years from the date of notice to proceed with the work

4.Yearwise Physical and Financial Cost (in Lakhs)

4 years	Financial (Rs in Lakhs)	In percentage
2021-2022	₹ 332.68	5%
2022-2023	₹ 2,328.79	35%
2023-2024	₹ 2,328.79	35%
2024-2025	₹ 1,663.42	25%
Total =	₹ 6,653.69	

5.Problems to be adrressed through the project at Local /state giving nature and magnatude of problems

The major problems to be addressed by way of constructing this road are:-

(a) Agia-Medhipara-Phulbari-Tura (A.M.P.T) Road is important and one of the oldest roads in the State of Meghalaya. The AMPT Road is an interstate road serving for both the state Meghalaya and Assam. The total length of AMPT Road is 133 kms and intermediate lane having pavement width 5.50m connecting from Assam Meghaya border at Medhipara 0 km to the district H:Q Tura, West Garo Hills at 133rd km. The major link of the AMPT Road provides connectivity to all the other state of India and North Eastern state in parlicular. The initial construction of the AMPT Road shows existence pre-Independence era and many towns and villages have come up all along its route like Tikrikilla, Chibinang, Phulbari, Bhaitbari, Rajabala, Hallydayganj, Pipulbari, Garobadha and Damalgre and the connectivity goes toward the International border Bangladesh.

(b) The length of AMPT Road proposed to be taken in the road project is 32.60 Kms starting from 67/600 Km at Rajabala to 100/200 Km at the Junction of GSB Road which goes to Selsella Block H:Q.

(c')The AMPT Road is predominantly connecting the plain belt of West Garo Hills district which is densely populated and built up area. The good road communication along the route of AMPT Road is important in the Western part of Meghalaya to ensure all round development in the state and the country in general.

(d) During the peak rainy season of the year the AMPT Road is one of the savior of many flood affected people in the area when all the adjacent area of AMPT road inundated with flood water and safe lives.

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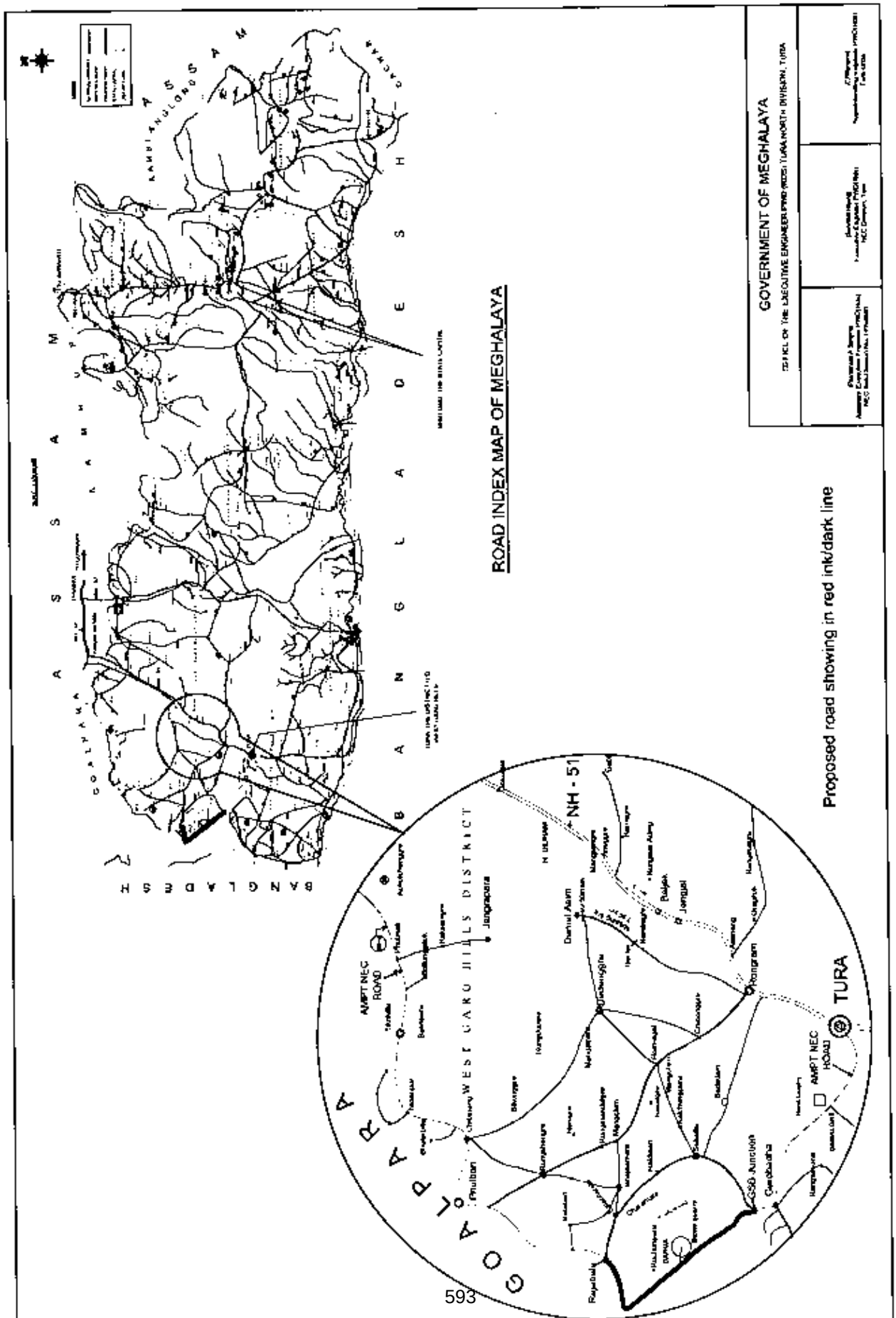
	(e) People belonging to different communities and diverse culture live together in this part of the State. Although they are of different tribes and communities, they have age old relations and social bonding between themselves from the time immemorial. There are lots of potential for economic and developmental activities in this area but in absence of proper road communication in these area were a stumbling block to socio-economic development of this part of the state.
6.Development Objectives of the Proposal	(a) The main object of this project is to improve the AMPT roads by providing strengthening the existing pavement, pucca side drains, footpath with railing, protection and CD works and also Earth work on the road. 1.The side drains in the different segment of road has been indentified to construct side drain to drain out the run off rain water 2.There are numbers of missing culverts as well as new culverts are required to sustain the road due to changing of run off rain water from the uphills and the built up residential area, are proposed. 3.Protective works in the form of R/Wall and B/Wall is also proposed for the works required at the widening and land slide prone portion of the road 4.The footpath and railings are proopsed in the bazar area where the pedestrains visible walking every day on the roads. 5.The strengthening of entire existing pavement is proposed as the existing road has already been damaged and deteriorated. 6.The eath work in cut and fill are proposed in widening and low lying area of the road.
7.Benefits likely to accrue, quantity in terms of population and other parameters	The benefits which will accrue on completion of this scheme are:- (a)The population size of more than 6,43,000 residing in towns and villages of the West Garo Hills District will be directly benefitted which in turn will uplift socio-economic status (b)This being infrastructural development, the economic returns cannot be assessed directly. There are economic and social benefits toward transportation and marketing of regional products of agriculture, horticulture and fishery and tourism etc. and better maintenance of law and order and effective tackling of emergency when out break of epedemic etc.
8.Ongoing initiatives taken by the State Government and manner in which duplication will be avoided and synergy created through the proposed project	The implementing agency is the state Govrnment PWD (Rds), all the major road network of the state are constructed and maintained by the state PWD. No other proposal has been submitted by the state PWD for new construction / upgradation from other sources, hence there will be no duplication of this project.
9.Important parameters justifying the Projects	The AMPT Road in the western part of Meghalaya is very important as the road provides connectivity to outside state and good road communication along the route of AMPT Road would improve the trading of its rich Agriculture products to export out side the state including horticulture and mineral resources etc. The economy activty and commerce would grow in this part of the state.

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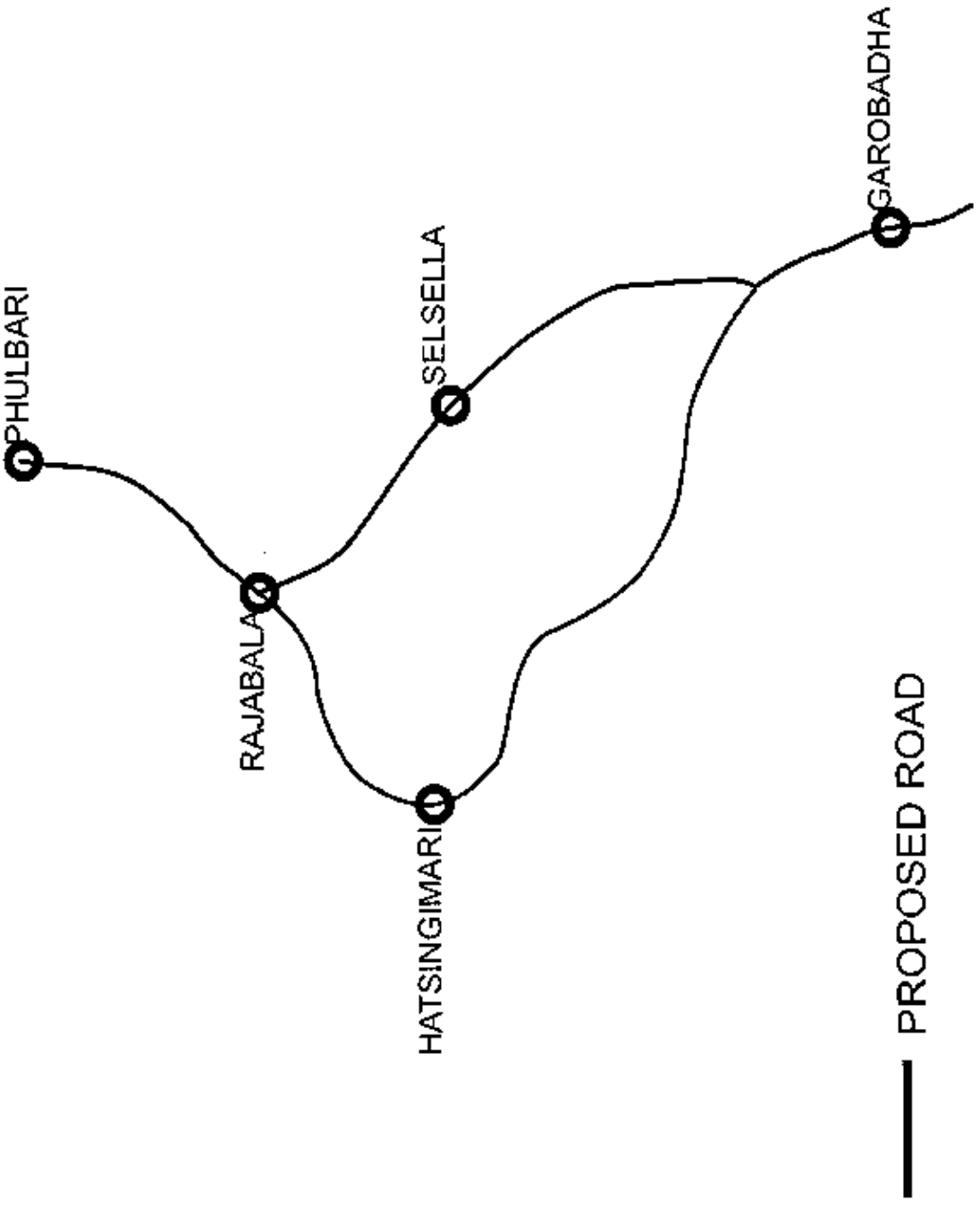
	To uplift the economy of the villages located in this area and enabling the people to avail the basic facilities be it health, commercial activity, education, procurement of essential commodities, law and order etc. The socio-economy and living standard of the people expected to be improved and the various socio-ecomony programmes undertaken initiated by the Government will be facilitated for smooth implementation. Overall this project would ensure all round devepment in the district in particular and the state in general.
10.Status of Administrative and Statutory clearance from State /Central Government	Since the proposed project is for "Improvement and Widening of existing road, will follow the existing alignment of the road. Hence there will be no administrative and statutory clearance problems.
11.Readiness of the Project for Implementation.	The survey and investigation work has already been started.
12.Post Completion sustainability :- including operation and maintenance of assets	This project after its completion will be fully maintained by the state PWD. All the major road network of the state, which includes national highways, is being successfully maintained by this department. The state PWD has adequate capability for this purpose. Regular review meetings are also being held to ensure proper and effective utilisation of repair funds.

Executive Engineer PWD(R)
NEC Division, Tura

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GOVERNMENT OF MEGHALAYA
PUBLIC WORKS DEPARTMENT (ROAD)

"CONCEPT PAPER"

STATE	:	MEGHALAYA
DISTRICT	:	WEST GARO HILLS
DIVISION	:	NEC DIVISION, TURA
DEPARTMENT	:	PUBLIC WORKS DEPARTMENT (ROADS)
NAME OF PROJECT	:	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60Kms) under NESIDS in the State of Meghalaya
TOTAL PROJECT ROAD LENGTH		32.60 KM
TOTAL ESTIMATED COST OF DPR		Rs 6653.69 lakhs

1 Background and problem to be addressed :-

The Agia-Medhipara-Phulbari-Tura (A.M.P.T) Road is very important road and one of the oldest roads in the State of Meghalaya. The total length of the AMPT Road is 133 kms and an interstate highways between the state of Meghalaya and Assam of the Indian union. The project road length of the AMPT Road is considered 32.60 kms portion from km 67/600 to km 100/200 and the existing road is intermediate lane with 5.5m pavement width. The initial construction of the AMPT Road shows existence pre-Independence era connecting many important towns and villages enroute to District H:Q Tura of West Garo Hills and provide connectivity to International border Bangladesh. The important tourist spots which are enroute to AMPT Road are Archelogical place at Wadagokgre and the Godess Ma Charontola temple at Haldibari where many believers and devotees are worship every year from different parts of the country. The historical age old Godess Ma Kamakhya temple at Mankachar in Assam also enroute to AMPT Road and visitors are travelling by the AMPT Road to Worship the Godess Ma Kamakhya in Mankachar. The highest Peak Nokkrek in the region and the Balpakram National park are also very important tourist place of the district as well in the state of Meghalaya and the AMPT Road by being its location provides greater connectivity from the district to the other part of the country as well in the Norht Eastern state in particular.

2 Important

The Meghalaya is being hilly state, it is riched in mineral resources and scenic beauty and panoramic views of Meghalaya attract many tourists every year. The East, West and Northern part of the state is surrounded by state Assam and the Southern part is all along the International border with Bangladesh. The AMPT Road is a very commercial important road not only for trading of domestic minerals resoures and other agriculture, horticullure products but international trading like exporting of mineral resources stone materials, lime etc. are exporting to Bangladesh from Bhutan through the AMPT Road to Bangladesh.

3 Objective:-

The main objective of the Project/Scheme is to improve better road connectivity for national and International important for all round development in the region as well in the state. Due to lack of better road infrastructure over the years, it has been found that backwardness and people are subjected to hardship in all fronts. This project has been proposed for consideration for funding under NESIDS with the objective for development and to promote the Tourism in the state which will generate revenue and employment for local and educated people.

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4 Proposal of the Project :-

The Proposal of the Project has the following provisions.

1 Earth work (Excavation/Filling)
2 Metalling and Black topping (WMM/DBM/BC)
3 CD Work (HP NP-4 and Box Culvert)
4 Protection work (R/B Wall)
5 Drain / Foothpath
6 Road furniture

5 Construction materials:-

The construction materials required for the Project like stone materials, GSB, stone chips, sand, blindage etc. are locally available from the approved quarries.

6 Land availability:-

As the project is for improvement and widening of the existing road and will follow the existing alignment land will require for the project.

7 Environmental impact:-

(a) As the alignment of the existing road will follow for improvement and widening of the road and hence there will no environmetal impact of the project.

(b) Environmental sensitive area, The project for improvement and widening of the existing road does not come under any environmentaly sensitive area.

(C) The construction camp for the project will be constructed away from water body and forest area. Water supply, sanitation and solid waste management will be taken care of during construction of the project.

(d) Permit / Clearance required prior to commencement of civil work.

(i) No objection certificate will be taken by the department from the state Pollution Control board.

(ii) Borrow pits :- Filling solls have to be procured from borrow pits and all the borrow pits will be taken care for re-using again borrow pits area of the project.

(iii) Errosion Control:- Turfing for the embankment slopes for errosion, rain cuts etc.

8 Benefits:-

Upon completion of the Project, it will be immensely helped people for livelyhood and upliftment of economy, trading of horticulture, Agriculture products for marketing and the commercial activities like exporting of mineral resouces to Bangladesh and also will attract more tourists in the state and will in return help the government for generation of state revenue.

9 Execution and management of the Project:-

This project after its completion will be fully maintained by the state PWD. All the major road network of the state, which includes national highways, is being successfully maintained by this department. The state PWD has adequate capability for this purpose. Regular review meetings are also being held to ensure proper and effective utilisation of repair funds.

10 Resources:-

The Project for upgradation and widening of the existing road is being the major road project and will involve huge expenditure and the state government is in no position to sanction the same from it's meagre resources and therefore it has been sought assistance from North Eastern special Infrastructure Development Scheme **(NESIDS)**

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11 Schedule of Rate:-

The DPR will be prepared as per current schedule of rate prevails in the state of Meghalaya.

12 Cost Estimate:-

Sl No	Item of work	Approximate cost Rs in Lakhs
1	Earth work (Excavation/Filling)	₹ 822.63
2	Metalling and Black topping (WMM/DBM/BC)	₹ 4,307.32
3	CD Work (HP NP-4 and Box Culvert)	₹ 385.22
4	Protection work (R/B Wall)	₹ 131.32
5	Drain / Foothpath	₹ 588.99
6	Road furniture	₹ 368.21
	"A" Total =	₹ 6,603.69
	Add DPR Apraisal "B" =	₹ 50.00
	Grand Total=	₹ 6,653.69

13 Time framed:-

The project is targeted to be completed by December / 2023 taking the financial year 2021-22 as starting year. On sanctioning the project, tender will be invited by the compotent authority and work will be alloted accordingly after observing all the formalities

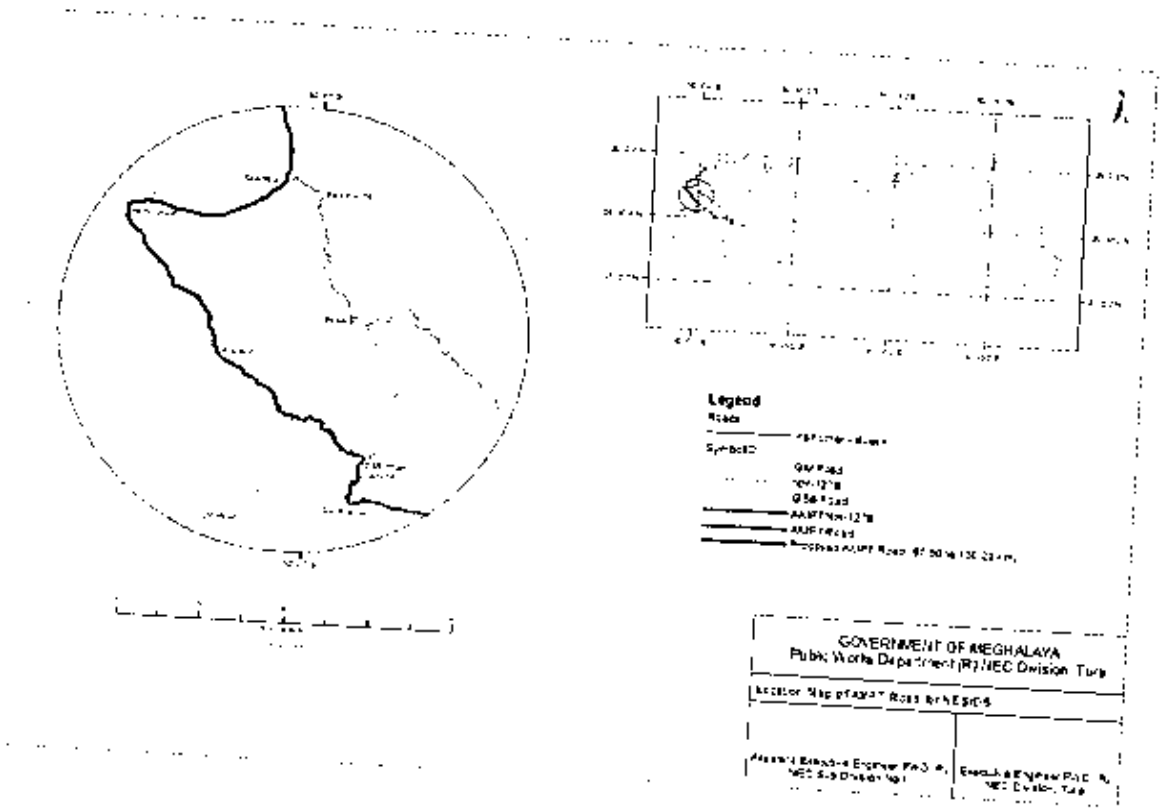
Year	Physical Phasing	Financial Phasing	Remarks
2021-22	40%	₹ 2,661.48	*Rs in lakhs*
2022-23	60%	₹ 3,992.21	
	Total =	₹ 6,653.69	

(Rupees six thousand six hundred fifty three lakhs and sixty nine thousand) only

Executive Engineer PWD(R)
NEC Division, Tura

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14 Location Map:-



Executive Engineer PWD(R)
NEC Division, Tura

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan,'B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 26.10.2021

OFFICE MEMORANDUM

Subject: Project proposal submitted by Government of Meghalaya under NESIDS for F.Y. 2021-22.

Please refer to your Office Memorandum No. NESIDS-14012/1/2021-O/o US (NLCPR) dated 14.10.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Construction of road from Shillong City to Umroi Airport	50.00	1) In the cost estimate total amount of the different component has been mentioned no details have been provided. 2) The MSA and CBR value is not mentioned. 3) No specification of road that is thickness of the different layers has not been mentioned. State Government may be requested to provide the above mention details/ clarification.
2.	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 km = 32.60 kms)	66.54	1) In the cost estimate total amount of the different component has been mentioned no details have been provided. 2) The MSA and CBR value is not mentioned. 3) No specification of road that is thickness of the different layers has not been mentioned. 4) Rs. 50 Lakhs DPR appraisal cost has been added in the estimate cost which seems to on hire side. State Government may be requested to provide the above mention details/ clarification.

26/X/2021

(G.S.Maheshwal)
Superintending Engineer (TW)

To

Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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Annexure AC

31st meeting of IMC/NESIDS Committee scheduled on 29/10/2021 **I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS** **(to be submitted by Programme Division, MDoNER)**			
Agenda Item No.:	**State: Meghalaya**		
Name of Project: State of the Art Diagnostic Centre, Tura in Meghalaya under NESIDS			
Project Description/Summary:-The project proposal State of the Art Diagnostic Centre, Tura in Meghalaya under NESIDS will facilitate improvement in the health status of the people of Meghalaya and to ensure that qualiry healthcare is available and accessible to them. The project will cater to all sections of the society of Garo Hills region wherein citizens can have access to latest diagnostic investigations at very affordable rates.			
	Stage 1: Retention/Selection of the Project		
1	**General Information**		
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 27.51 crore	
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper	
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Health	
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): not mentioned in the concept paper		
	Not applicable		
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes/No, if Yes, describe briefly	Not mentioned in the concept paper
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostel building), **has the SG agreed to take care of these activities**		No such component is included in the abstract of cost.

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1.7	Broad Breakup of Major Components of the project Cost as per concept note		
	Items of Work		Amount (in Rs.)
i)	Radiology Services		140000000
ii)	Pathology & Microbiology Services		65,400,000.00
iii)	Biochemistry Services		24,700,000.00
iv)	Infrastructure for setting up of the State of the Art Diagnostic Centre at Tura Civil Hospital Complex		45,000,000.00
			275,100,000.00
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	Not mentioned in the concept paper	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.9	Original		27.05.2021
1.1	Revised (if any)		19.10.2021
2	Is the project in question supported/coverable under any other scheme of Central or State Government	Not mentioned in the concept paper	
3	Normative allocation of SG and related details	• Normative allocation for 2020-21:- ₹ 129.12 crore	
		• Projects already selected/sanctioned - 3.65 crore	
		• Available funds :- ₹ 125.47 crore	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
i)	IFD, MDoNER	22.10.2021	comments awaited
ii)	Technical Wing	22.10.2021	comments awaited
iii)	Ministry of Health and Family Welfare	22.10.2021	comments awaited

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iv)	NITI Aayog	22.10.2021	comments awaited
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	Copy of concept note is annexed.
	b) Abstract of cost/Broad break up of costs	Yes	Yes, included in the Concept Note
	(c) Approval of CS	Yes	Forwarded by Planning Department after approval of CS
	(d) Any other (pl. specify)	NA	-
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief - (attached as per Annexure)**		
7	**Important observations/comments of Prog. Division:-**		
	In the instant project, there is infrastructure related portion. However, the State Govenrment has not provided any details of the infrastrure related portion. Also, Cost of Biochemistry services has not been provided in the annexures. Morover, the cost of pathology and microbiology services is not matched with the detailed cost given in the annexures. Accordingly, SG has been requested to provide the same. Also, the said project was received in 2018-19 and Ministry of Health and Family Welfare has not recommended the said project.		
Date:- 27/10/21			
Dated Signatures of Under Secretary Concerned			

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of the line Ministry/IFD/Technical Wing, MDoNER	Comments in brief	Response of SG/proposal submitting agency to the comments	Response of programme Division
1	2	3	4	5
1	Technical wing	Project related to strengthening of Diagnostic Services under Health Department for the following facilities a) Radiologic services b) Pathologic Services c) Biochemistry Services d) Infrastructure for setting up Art Diagnostic Centre The procurement for above mention points a, b, c may be done on competitive rates and as per Health Ministry guidelines. Regarding infrastructure for setting up Art Diagnostic Centre proper details has not been given in the concept paper. Total amount has been taken Rs. 4.50 crore. Programme division may like to ask to State Government.		State Government has already been requested to provide the same.

27/10/21

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GOVERNMENT OF MEGHALAYA
PLANNING DEPARTMENT
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No.PLR.45/2021/19 Dated Shillong, the 27th May, 2021

To: The Joint Secretary,
Ministry of Development of North Eastern Region,
Vigyan Bhawan Annexe, Maulana Azad Road,
New Delhi - 110011

Subject: Submission of prioritized list of projects for selection / sanction for the financial year 2021-22 under NESIDS

Sir,

I am directed to refer to your letter F.No.NESIDS/6/2019-O/oDIR1(NLCPR) dated 16-03-2021 on the above mentioned to submit herewith the list of prioritized project for funding under NESIDS during the financial year 2021-22 as detailed below:

Sl. No.	Name of the project	Cost (₹ in crore)
1.	Construction of a road from Shillong City to Umroi Airport	50.00
2.	Improvement including widening of Agia Medhipara Phulbari Tura Road (Portion from 67/600 to 100/200 Km = 32.60 Kms)	66.54
3.	Setting up of the State of the Art Diagnostic Centre, Tura	27.51
4.	Greater Mawkyrwat Water Supply Scheme	72.00
	Total	216.05

The concept papers of the above proposals are also enclosed herewith for your kind information.

This has the approval of the Chief Secretary, Government of Meghalaya.

Enclo.: As above.

Yours faithfully,

(R. Lyngdoh)
Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department
****

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GOVERNMENT OF MEGHALAYA
PLANNING DEPARTMENT
****

No.PLR.45/2021/Pt/37 **Dated Shillong, the 7th October, 2021**

To: The Deputy Secretary,
Ministry of Development of North Eastern Region,
East Block - 10, Level -IV,
R. K. Puram, New Delhi – 110 066

Subject: **Project proposal – "Setting up of Art Diagnostic Centre, Tura in Meghalaya" under NESIDS**

Sir,

I am directed to refer to your Ministry's letter NO.NESIDS/6/2021-O/oUS(NKS) dated 30-06-2021 and to re-submit herewith the Concept Note in respect of the proposal **"Setting up of Art Diagnostic Centre, Tura in Meghalaya"** for funding under NESIDS.

This is for your kind information.

Enclo.: As above.

Yours faithfully,

(R. Lyngdoh)
Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department
****

Memo No.PLR.45/2021/Pt/37-A **Dated Shillong, the 7th October, 2021**

Copy to:

1. The Commissioner & Secretary to the Govt. of Meghalaya, Health & Family Welfare Department, Shillong for kind information.
2. The Director of Health Service (MI), Govt. of Meghalaya, Shillong for kind information.

By order etc.,

Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya,
Planning Department
****

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CONCEPT NOTE

Strengthening of Diagnostic Services: State of the Art Diagnostic Centre at Tura, West Garo Hills.

Meghalaya has shown significant progress in its Health Care Delivery System over the years, however, the fact remains that the Health Scenario in the State is not up to the expected desired standard inspite of investments made in terms of basic infrastructure. To successfully achieve the important desired Health goals/outcome especially among the poor rural based, the vulnerable and the underserved sections, special health initiatives have to be taken up which will contribute significantly to the improvement of the health scenario in the State. The Health Department have a pool of highly dedicated Officers, Doctors, Nurses, Para-medicals and other staff working round the clock, often under very trying conditions, in the remote far flung areas. Despite all the hazards and limitations, they are offering tremendous service to our rural population. In recent years private sectors (charitable and corporate institutions) have been playing an active role as health providers as well as setting up of training Institutes for Nursing and Paramedical courses. The Government is encouraging such projects with checks and balances to ensure participation of genuine parties only and avoid unscrupulous agencies. Medical science is progressing at a rapid pace and with the presence of a well developed Information and Technology (IT) sector in the state, medical personnel would easily be able to update themselves on all the latest developments. It is felt that the Government should maximize the advantages of this sector in all spheres of medi-care services. The Government is totally committed in building healthy people, not only by making available quality medi-care facilities at the door step of every citizen in the remotest corner of the State, but also by providing medical facilities of the highest order, keeping pace with rapid technological developments in the field of medicine.

The Government of Meghalaya in order to facilitate improvement in the health status of the people of Meghalaya and to ensure that quality healthcare is available and accessible to them have come up with a special scheme for strengthening of diagnostic services with a proposal for setting up of another State of the Art Diagnostic Centre at Tura, West Garo Hills , which will cater to

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all sections of the society of Garo Hills region wherein citizens can have access to latest diagnostic investigations at very affordable rates. This, to a large extent will cut down out of pocket expenses of the people whereby they can avail the latest diagnostic interventions at reasonable cost. Tura being the secondary headquarter next to Shillong has 1(one) Civil Hospital and 1(one) District Maternity and Child Health Hospital, these being the only referral centres in the region.

An amount of Rs 27,51,00,000/- (Rupees twenty seven crores fifty one lakhs) only earmarked under North East Special Infrastructure Development Scheme (NESIDS) for Health and Family Welfare Department during 2018-19 to be initially utilized for setting up of the proposed exclusive Diagnostic Centre. State of the Art diagnostic equipments will also be installed which will be of immense benefit to the patients especially the poor and needy. This will perhaps ensure a new era in the management and delivery of preventive, curative and promotive medi-care services to all classes of the society in the Garo Hills region.

The Diagnostic Centre will under one roof provide the following facilities:

A. **Radiology Services – Rs 14,00,00,000/-**
{Details at Annexure I. **(Pg 3-10)**}

B. **Pathology and Microbiology Services – Rs 6,54,00,000/-**
{Details as at Annexure II.**(Pg 11-27)**}

C. **Biochemistry Services – Rs 2,47,00,000/-**
Details as at Annexure III. **(Pg 28-38)**

D. The infrastructures for setting up of the State of the Art Diagnostic Centre at Tura Civil Hospital Complex – **Rs. 4,50,00,000/-**

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ANNEXURE -I

State Of the Art Diagnostic Centre (Radiology Department)

The facility shall meet design and building requirements for the specific diagnostic imaging services.

- Patient convenience and accessibility should be an integral part of the Planning and Design of the Imaging/Radiology Department.
- Diagnostic imaging services Performs Examinations and produces images from non-invasive or minimally invasive procedures performed on patients in specially equipped examination rooms. The Imaging modalities associated with the diagnostic imaging services include medical application of Ionizing and Non-ionizing radiation.

Proposal for Inclusion in the installation of the following Radiological Equipments in the State of the Art Diagnostic Centre :

1. Digital Radiography (DR) - 1no.
2. Digital Mammography - 1no.
3. Bone Densitometry/DEXA scan- 1no.
4. Dental X-rays: a) Intra-oral X-ray (RVG- Radiovisiography) - 1no.
   b) Ortho Pantomography (OPG) - 1no.
5. Diagnostic Fluoroscopy/IITV system along with Computed Radiography unit - 1no.
6. High end Ultrasound Machines - 2nos.
7. CT scan- 128 slice - 1no.
8. MRI – 1.5 Tesla - 1no.
9. Portable Xrays - 2nos.
10. Portable Ultrasound - 1no.
11. Nuclear Imaging (PET-CT/PET SCAN) - 1no.
12. PACS (Picture Archiving and Communication System) /Teleradiology services.

- 3 -

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Codal Requirements for Room Layout of X-ray Equipment

- The room housing an X-ray equipment shall have an appropriate area to facilitate easy movement of staff and proper patient positioning.
- Appropriate structural shielding shall be provided for walls, doors, ceiling and floor of the room housing the X-ray equipment so that radiation exposures received by workers and the members of the public are kept to the minimum and shall not exceed their respective dose limits.
- The x-ray room should not be a throughway to another room.
- No two X-ray equipment should be installed in the same room.
- X-ray installation should be located as far as possible from areas of high occupancy such as Maternity, Paediatric and sonography rooms.
- Air Conditioning System shall be provided.

1. Digital Radiography System: means the capture or conversion of radiographic images in a digital format. The X-ray image acquired is digitized using special X-ray plates and computers.

Advantage: a) A dark room is not necessary to develop films.

b) Quicker output can be achieved and hence workload and performance can be increased.

c) Images can be stored easily in computers for future reference.

d) Image manipulation can be done and hence repeat exposures for overexposed/Underexposed films can be avoided.

CRITERIA:

Requirement for room layout to install the X-ray Equipment:

a) Minimum dimension requirement - Any single dimension should not be less than 4m.

b) Minimum area Requirement = $18m^2$

c) Length of the room should be 14 feet

d) Small room for UPS/Stabilizer of 2m x 2m with AC system.

e) Layout requirements (Shield design calculations): Atomic Energy Regulatory Board (AERB) type approved X-ray equipment

1) Wall thickness [illegible] of the body protection

2) 1.7mm Lead lined doors

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3) Floor (if installation is not on the ground floor) and ceiling thickness of 6-8 inch concrete is adequate.

f) Separate Console/Control room/Computer Work station (2m x 2m) with shielded viewing Window and AC system.

g) Separate Room for Reception.

h) Waiting Arena for patients.

i) Patients Changing room /designated patient gowning area) with safe storage for valuables and clothing shall be provided (1.5x1.2meters)^2 with immediate access to the X-ray room.

j) Green/Red warning Light indicating when X-ray beam is OFF/ON shall be provided.

k) Storage area for medications must be readily available to treat adverse reactions associated with administered medication.

l) Provision of Radiation monitoring devices (e.g. TLD badges) to the technical staff and Doctor through RSO.

Statutory AERB Compliance (Room layout approval) shall be provided to all X-ray generating Equipments with Quality Assurance/QA Report.

AERB registration and License of all equipments.

Other Radiology equipment and supplies:

- Lead Aprons
- Gonad and thyroid Shields
- Emergency trolley
- LED View Box
- Working table with Bench
- Foot steps to help patients step into the X-ray table
- Lead Apron Hanger.

2. Diagnostic Fluoroscopy/IITV System with Computed Radiography Unit:

Fluoroscopy procedures are performed by radiologists using real time X-ray imaging of different body parts. Its clinical applications- Eg. Upper GI series (Barium swallow etc), Hysterosalpingography etc.

a) Minimum dimension requirement :Any single dimension should not be less than 4m.

b) Minimum area requirement: 18m^2

c) Room Layout Requirements/Shielding materials: Similar to Digital Radiography (AERB approved).

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d) Patient waiting arena.

e) Patients Changing room /designated patient gowning area) with safe storage for valuables and clothing shall be provided (1.5x1.2meters)^2 with immediate access to the X-ray room.

f) Green/Red warning Light indicating when X-ray beam is OFF/ON shall be provided.

3. Bone Densitometry:

Also called Dual energy X-ray Absorptiometry (DEXA) scan , is an enhanced form of X-ray technology, quick and noninvasive that is used to measure bone mineral density/bone loss. It is commonly used to diagnose osteoporosis and to assess an individual's risk for developing fractures.

a) Minimum dimension requirement: Any single dimension should not be less than 3.5m.

b) Minimum area requirement: 15m^2

c) Room layout requirement: AERB type approved X-ray Equipment

- 23cm thick brick walls
- 1.7mm head lined doors.

d) Patient waiting arena

4. Dental X-rays:

a) Ortho Pantomography (OPG):

Also known as Dental panoramic tomography, is a commonly carried out technique in the dental setup to assess dental diseases.

a) Minimum dimension requirement: Any Single dimension should not be less than 3m.

b) Minimum area requirement: 13m^2

c) Room layout requirements: AERB type approved X-ray Equipment

- 23cm thick brick walls
- 1.7mm head lined doors.
- Mobile protective barrier with lead glass viewing window of 1.7mm lead equivalent.

b) Intra Oral X-ray: RVG (Radiovisiography):

- Minimum dimension requirement
- Minimum area requirement — Not applicable
- Room layout requirement

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5. Digital Mammography: (Breast Imaging)

Also called full-field digital mammography . It is used commonly as a screening tool to detect early breast cancer in women experiencing no symptoms and to evaluate the area of concern/abnormal clinical findings.

a) Minimum dimension requirement: Any Single dimension should not be less than 3m.

b) Minimum area requirement: $10m^2$

c) Room layout requirement: AERB type approved X-ray Equipment

- 23cm thick brick walls

D) Patient gowning area/changing room with safe storage of storage for valuables and clothing shall be immediately accessible to the room.

e) Door mammography should be interlock to prevent interruption of scanning procedure.

f) Warning Light with wording "X-ray in USE, DO NOT ENTER"

g) Provision for hard copy and computer printout reports.

h)Adequate working space/Patient waiting Arena.

6. Ultrasound Machines: (High end USG Machine) :

Ultrasound Room shall not be less than 18sqm.
A high end USG machine will increase the diagnostic yield leading to early and better diagnosis.
a) High resolution USG of updated technology with multiprobes.
b) Facilities for printout and hard copies of the image.

c) Patient toilet shall be accessible near the Ultrasound room.

e) Ample space for Patient waiting arena.

d) AC System shall be provided.

e) Registration under PCPNDT Act and Its Status of implementation.

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7. CT-Scan Machine: High end (128 slice):

(In all purpose scanning including Coronary Angiography/Cardiac Imaging)

a) CT-Scan room space requirement is atleast $25m^2$

b) UPS room 3mx3m

c) Room layout (AERB guidelines/approved) : 23cm thick brick walls.

d) Lead glass viewing Window of 2mm Lead equivalent

e) Separate Control/Console room designed to accommodate computers and other controls for the equipment and to allow convenient film processing.

f) Patient changing/gowning room.

g) Patient toilet shall be provided. It shall be close to the procedure room (directly accessible to the scan room is recommended).

h) Magnet Door interlock.

i) Warning light with wording CT in use, DO NOT Enter.

j) Patient Waiting area separate from the radiation area.

k) Provision of Lead Aprons, Gonad shield, thyroid shields, Lead Apron hanger.

8. MRI Machine (1.5 Tesla): with wide range of clinical applications including MR spectroscopy.

Criteria Room Layout: - Magnet room: 6.3 x 4.2m

- Console room: 3 x 4.2m
- UPS room: 3 x 3m
- Technical room: 4.5x3m

- Patient changing/gowning room with safe storage of valuables and clothing shall be provided.
- Patient waiting arena shall be provided convenient to the MRI room.
- Magnet door interlock

- Doctors reporting common room for all diagnostic equipments with PACS connectivity and Library facility. Minimum space requirement of 18sqm.

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9. Portable X-rays : High freguency portable X-rays

10. Portable Ultrasound machine.

11. Nuclear imaging Facility (PET scan/PET-CT):

PET Scan: Positron Emission Tomography also called PET imaging is a type of nuclear medicine imaging which measures important body functions such as blood flow, oxygen use and glucose metabolism and especially performed to detect cancer . Today , almost all PET scans are performed on instruments that are combined PET and CT scanners.

Space Dimensions: Reasonable size room and space for –

- Imaging room (6m x 7m) – Gamma camera and imaging table
  - Gamma Camera computer workstation
  - Head screen Barrier
  - Radiation survey Monitor
- Processing and Analysis room (2m x 2m) (CT can be included in the imaging room)
- Dispersing laboratory (2m x 3m)
- Injection room
- Waiting room - injected male patients
- Waiting room - injected female patients
- Waiting area - Non-injected patients.

12. PACS (Picture Archiving and Communication Systems): Filmless Radiology

A PACS is a computerized means of replacing the roles of conventional radiological film. Images are acquired, stored, transmitted and displayed digitally. When such a system is installed throughout the hospital, a filmless clinical environment results.

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Proposed equipments:

Sl.No	Name of Equipment	Quantity	Approximate cost with warranty period	Remarks
1	Digital Radiography(DR)	1	2 Crores with 5 years warranty and turnkey	AMC/CMC of all Machines at the Expiry of warranty Period
2	High End Ultrasound Machine	2	1 Crore with 5 years warranty	
3	MRI 1.5 Tesla	1	11 Crores with 5 years and turnkey	
	TOTAL		14,00,00,000/-	

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ANNEXURE- II

DETAIL PROJECT REPORT AND ASSESSMENT TO SET UP A STATE REFERRAL DIAGNOSTIC CENTRE AT TURA, WEST GARO HILLS

DEPARTMENTS OF PATHOLOGY AND MICROBIOLOGY GOVT. OF MEGHALAYA

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OBJECTIVE AND SCOPE

OBJECTIVE: The lab medicine department can be viewed as a bridging endeavor linking the basic medical, biological and physical sciences with medical practice. In this role the laboratorian serves as a clinical consultant to the clinicians and patients.

It is true that over 75% of diagnosis is made through laboratory investigations.

Pathology Department:

To set up a State Referral Laboratory for Haematology, Cytology Clinical Pathology and Histopathology to include such services like, diagnosis of the different Anemia's, Erythrocytic Disorders, Sickle Cell Anemias and Thallasaemia, Luecocytic Disorders, Coagulation Disorders and Clotting Factor Deficiencies. And also to include a specialized lab for flow cytometric immunophenotyping of haematolymphoid malignancies, a HPLC (high powered liquid chromatography) for diagnosis of haemoglobinopathies, and complete work up of non neoplastic haematological disorders.

These objectives will include all advanced tests required by clinicians for diagnosis of Haematological, Cytological and Histopathological disorders under one roof

Microbiology Department:

- To set up a State Referral Microbiology Lab
- To focus on automated system for ID and sensitivity testing, to reduce turnaround time for reports thereby initiating early diagnosis and treatment
- To reduce antimicrobial resistant pattern by introduction of re standardized antibiotic policy.

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INSTRUMENTS FOR HAEMATOLOGY DEPARTMENT

Sl no	Name of instrument	Model Make	Number Reqd	One time expenditure
1	Microscope high power with oil immersion lens movable stage and condenser	CX31 Olympus	2	INR 1,50,000
2	Automated hematology analyzer 6 part with at least 40 parameters having data storage ofat least 25,000 samples and a color TFT display	Beckman Coulter/Transasia	1	INR 10,00,000
3	Digital colorimeter	Systronics	1	INR 16,000
4.	Haemoglobinometer and haematocrit analyzer	Rapha	1	INR 5,000
5.	Rotator blood sample mixer		1	INR 20,000
6	Automated ESR analyzer		1	INR 1,50,000
7	Micropipettes of various sizes		10	INR 50,000
8	Electrophoresis unit		1	INR 50,000
9	Refrigerator 210 L capacity		1	INR 40,000
10	Staining racks and troughs for bulk staining Of slides Of slides		1	INR 20,000
11	Hot air oven 18x18x18 SS		1	INR 18,000
12	Incubator 18x18x18 SS		1	INR 18,000
13	Digital thermometers to maintain optimum temperature In refrigerators		1	INR 5,000
15	Computer with UPS 3.2kv and Printer dot matrix or laser		1	INR 60,000
16	Coagulation analyser	Tulip	1	INR 2,00,000
	Total INR 16,84,000 approximately			

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INSTRUMENTS FOR CYTOLOGY DEPARTMENT

Sl no	Name of instrument	Model /make	Nos reqd	One time expenditure
1	Various needles suitable For FNA	22G/23G 32mm core		INR 5,000
2.	Syringe holders	Franzen	3	INR 5,000
3.	Microscope high power lens with oil immersion movable stage and condenser.	CX31 Olympus	2	INR 1.5 lacs
4.	Staining and drying racks		5	INR 5,000
5.	Cyto centrifuge machines	Remi	1	INR 25,000
6.	computer with ups 3KV and laser printer		1	INR 1.5 lacs
7.	Refrigerator 150 liter capacity		1	INR 25,000
	Total INR 3,60,000 APPROXIMATELY			

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INSTRUMENT REQUIRED FOR CLINICAL PATHOLOGY AND BODY FLUIDS ANALYSIS

SL NO	NAME OF EQUIPMENT	Make/ model	Numbers reqd	One time expenditure
1.	Automated urine analyser	Uri Plus Rapha	2 nos	INR 2.0 Lacs
2.	Microscope high powered with oil immersion lens	Olympus CX 31	1 nos	INR 2.0 Lacs
3.	Automated semen analyser	Rapha semenolyser	1 nos	INR 2.0 lacs
4.	Semi auto analyser	Transasia	1 nos	INR 2.0 lacs
5.	Computer with ups 3KV and dot matrix printer		1 nos	INR 1.5 lacs
6.	Refrigerator 150 liter capacity		1	INR 25,000
	Total INR 11,75,000 APPROXIMATELY			

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INSTRUMENTS FOR HISTOPATHOLOGY AND IMMUNOHISTOCHEMISTRY

SL. No	Name of equipments	Model/make	Nos reqd	Approximate price
1	Microscope high power with oil immersion lens and movable stage	BX21/CX31olympus	1	INR 1.5 lacs to INR 4.5 lacs
2	E330 digital camera compatible with BX41/CX31	Olympus	1	INR 1.5 lacs
3	Tissue embedding centre with cold plate	Leica	1	INR 50,000
4	Automatic tissue processor(complete)	Leica	1	INR 4.5 lacs
5	Hot Air oven 18x18x18SS	Paithak	2	INR 18,000
6	Refrigerator 185L	Samsung	1	INR40,000
7	Rotatory microtome semi automatic	Yorco	1	INR 25,000
8.	Paraffin dispenser		1	INR 1.5 lacs
9	Paraffin block trimmer		1	INR 50,000
10	Paraffin embedding baths		1	INR 20,000
11	Hot plates		1	INR,5,000
12	Water baths electric tissue floatation digital		1	INR 25,000
13	Cryo bath		1	INR 1.5 lacs
14	Cryostat freeze plate		1	INR 1.5 lacs
15	Bone decalcifier		1	INR 25,000
16	Microtome knife		1	INR 80,000
17	Single pan electronic balance	Citizen	1	INR 50,000
18	Kitchen balance	Citizen	1	INR 8,000
19	Distilled water still		1	INR 1.0 lacs
20	Band saws and wires for cutting bones		1	INR 50,000
21	Slide warmer		1	INR 25,000
22	Block cabinet capacity 10,000		1	INR 15,000
23	Cabinet for 1,000 slides		1	INR 15,000
24	Coplin jars		30	INR 5,000
25	Grossing cabinet		1	INR 25,000
26	Laminar flow cabinet		1	INR 50,000
26	Staining racks for bulk staining		35	INR 5,000
27	Staining troughs for bulk staining		24	INR 5,000
28	Slide boxes having 100 capacity		10	INR 2,000
29	Computer with UPS 3KV		1	INR 1.5lacs
30	Printers dot matrix /LASER		2	INR 1.5lacs
	TOTAL	INR 27 Lacs and 43 thousand approximately		

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INSTRUMENTS FOR BIO MEDICAL WASTE TREATMENT

SL NO	NAME OF INSTRUMENT	NUMBERS REQD	AMOUNT
1	AUTOCLAVE	1	INR 1,00,000

ANNUAL MAINTENANCE CONTRACTS

ANNUAL MAINTENANCE CONTRACTS FOR THE DIFFERENT EQUIPMENTS WILL BE QUOTED BY THE MANUFACTURERS AND CAN BE ADDED ONLY AFTER THE PURCHASE BOARD HAS APPROVED THE QUOTED RATES.

Lack of good service contracts and routine maintenance of lab equipment often brings a lab to a halt. An important component of GLP is maintenance of functioning lab equipment.

This committee suggests achieving this through service contracts with local vendors wherever feasible, they should be trained and certified for each instrument and co funded by manufacturers, they must work closely and in coordination with the Bio medical Engineer of the Centre.

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TOTAL EXPENDITURE

SL NO	DEPARTMENT	AMOUNT IN INR
1	HAEMATOLOGY	16,84,000
2	CYTOLOGY	3,60,000
3.	CLINICAL PATHOLOGY	11,75,000
4.	HISTOPATHOLOGY	27,43,000
5.	BIOMEDICAL	1,00,000 +
6.	LAB MANAGEMENT SYSTEM	200,00,000
7.	ANNUAL MAINTANCE CONTRACT	5,00,000 +
8.	CONSUMABLES	10,00,000 + p.a
9.	FURNISHINGS	25,00,000 +
10.	CIVIL WORKS(main and auxiliary)	
11.	SALARIES	As per govt FR/SR
12	UNINTERRUPTED POWER SUPPLY	25,00,000
13	QA/QC	5,00,000+
14	LICENCES	
TOTAL	3,55,62,000 +	

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MICROBIOLOGY DEPARTMENT

Requirements

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EQUIRED EQUIPMENTS/ INSTRUMENT MICROBIOLOGY DEPARTMENT:

1. BACTERIOLOGY LABORATORY

	Name of Equipments	Quantity	Price(Approx) In Rupees
1	Biological safety cabinets Class II protective cabinets	1	2,00,000
2	Biological safety cabinets Class I protective cabinets	1	1,50,000
3	P C R : R-T PCR	1	20,00,000
4	PCR conventional	1	35,00,000
5	Centrifuges – centrifugation machine	2	40,000 x 2 =80,000
6	Fluorescence Microscope	1	7,00,000
7	Deep Freezer (-80)	1	3,00000
8	Incubators – CO_2 incubators	1	80,000
9	Refrigerators (320 litres)	2	45,000 x 2 =90,000
	Refrigerators (250litres)	2	40,000 x 2 = 80,000
10	Autoclave	2	2,00000
11	Hot Air oven	1	80,000
12	Universal Incubator	2	120000 x 2 = 2,40,000
13	Water bath	1	50,000
14	Automated machine for identification and antimicrobial susceptibility testing/ automated ID and antimicrobial susceptibility testing (Vitek-2)	1	18,00,000
15	Automated system for Blood culture (BacT Alert) Biomerieux bacterial culture sensitivity and culture bottles	1	10,00 000
16	Hain Line Probe assay	1	9,00,000

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	Drying oven	1	90,000
	Dark Ground Microscope	1	120,000
19	Electronic colony counter	2	50,000 x2= 100000
20	Double Distillation unit	1	1,50,000
21	Refrigerated centrifugation	1	1,00,000
22	Vortex mixer	1	60,000
	Electronic analytical balance	1	90,000
23	VDRL Shaker	2	60,000 x 2= 1,20,000
24	PH meter	2	20,000 x 2= 40,000
25	ELISA washer	1	200,000
26	ELISA Reader	1	2,00,000
27	Air Purifier Mark III	2	50,000 x 2= 1,00,000
28	Rotary Shaker	1	60,000
29	Compound Microscope Binocular Olympus CX 21	2	1 50,000 x 2= 3,00,000
30	BOD Incubator	1	1,50,000
31	Fully Auto Analyser for Microbiology test(ASO titre, Rheumatoid arthritis factor etc)	1	9,00,000
32	Semi Auto Analyser	1	3,00,000
33	Micro pipette of various sizes		60,000
34	Anaerobic jar for culture	1	25,000
35	Millipore Milli Q water Purification system	1	3,00,000
36	Fully Automated Maldi TOF Mass Spectrometry	1	100,00,000
37	Spectrophotometer	1	60,000
38	Staining Racks (staining of slides)		20,000

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	Digital Thermometer to maintain optimal temperature of Refrigerator	2	5,000 x 2 = 10,000
	Computer with printer, scanner	1	1,00,000
	Inverter for power backup	1	50,000
	Total Bacteriology laboratory		Rs2,62,35000

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2. VIROLOGY Laboratory

	Name of Equipments	Quantity	Price(Approx) In Rupees
1	Biological safety cabinets Class II protective cabinets	1	2,00,000
2	Biological safety cabinets Class I protective cabinets	1	150,000
3	P C R : R-T PCR	1	20,00000
4	Gel electrophoresis apparatus	1	100000
5	Centrifuges – centrifugation machine	2	40,000 x 2 =80,000
6	Fluorescence Microscope with photography attachment	1	10,00,000
7	Deep Freezer (-80)	1	3,50000
	Deep freezer (-20)	1	300000
8	Incubators – CO_2 incubators	1	80,000
9	Refrigerators (320 litres)	1	45,000
	Refrigerators (250litres)	1	40,000
10	Autoclave	1	2,00000
11	Hot Air oven	1	80,000
12	Universal Digital Incubator	2	120000 x 2 = 2,40,000
13	Water bath	1	50,000
14	UV Transilluminator	1	120000
15	Drying oven	1	90000
16	Electronic analytical balance	1	90,000
17	Inverted Microscope	1	1200000
18	Double Distillation unit	1	1,50000
19	Refrigerated centrifugation	1	100000
20	Vortex mixer	1	60,000
21	ELISA Reader	1	200000 x 2= 400000
22	ELISA washer	1	200000 x 2= 400000

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Cont virology

23	Rotary Shaker	1	60,000
24	Compound Microscope Binocular Olympus CX 21	2	1 50 000 x 2= 3,00,000
25	BOD Incubator	1	1,50,000
26	Micro pipette of various sizes		60,000
	Multipipette 8 channel	2	25,000 x 2= 50,000
27	Millipore Milli Q water Purification system	1	3,00,000
28	PH meter	2	20,000 x 2= 40,000
29	Ultra Centrifuge	1	120,000
30	Air Purifier Mark III	2	50,000 x 2= 1,00000
31	Digital thermometer to maintain optimal temperature of refrigerator	2	5000 x 2= 10,000
	Computer with scanner and printer	1	100000
	Inverter for power back up	1	50000
Total Virology laboratory			8865,000

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3. PARASITOLOGY Laboratory

	Name of Equipment	Quantity	Price(Approx) In Rupees
1	Fume hood	1	80,000
2	Laminar Airflow	1	1,00,000
3	Micro Centrifuge	1	90,000
4	Centrifuges – centrifugation machine	1	40000
5	QBC Malaria test system with QBC malaria tube with fluorescence Microscope	1	10 00,000
6	QBC centrifuge	1	80,000
7	Double Distillation unit	1	150,000
8	Refrigerators (320 litres)	1	45,000
	Refrigerators (250litres)	1	40,000
9	Autoclave (small)	1	80,000
10	Hot Air oven	1	80,000
11	Universal Digital Incubator	1	120000
12	Water bath	1	50,000
13	Drying oven	1	90000
14	Electronic analytical balance	1	90,000
15	Ultra centrifuge	1	100000
16	PH meter	2	20000 x 2 = 40000

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CONT Parasitology

17	Rotary Shaker	1	60,000
18	Compound Microscope Binocular Olympus CX 21	2	1 50.000 x 2= 3,00,000
19	BOD Incubator	1	1,50,000
20	Micro pipette of various sizes	1	60,000
21	Air Purifier Mark III		50000
22	Staining Racks (staining of slides)		20,000
23	Digital thermometer to maintain optimal temperature of refrigerator	2	5000 x 2= 10,000
	Computer with scanner and printer	1	100000
	Inverter for power back up	1	50000
	Total Parasitology laboratory		30,75000

2.6

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4. MYCOLOGY LABORATORY:

Sl.no.	Name of Equipment	Quantity	Price(Approx) in Rupees
1.	Biological safety cabinets Class II protective cabinets	1	2,00,000
2.	Laminar air flow	1	1,00,000
3.	Centrifuges – centrifugation machine	2	40,000 x 2=80,000
4.	BOD incubator	1	1,50,000
5.	Refrigerator (320 litres)	1	45,000
	Refrigerator (250 litres)	1	40,000
6.	Autoclave (small)	1	80,000
7.	Hot Air oven	1	80,000
8.	Universal Digital Incubator	1	1,20,000
9.	Water bath	1	50,000
10	Drying oven	1	90,000
11	Electronic Analytical Balance	1	90,000
12	PH meter	2	20,000 x 2 =40,000
13.	Air Purifier Mark III	1	50,000
14	Rotary Shaker	1	60,000
15	Compound Microscope Binocular Olympus CX 21	2	1,50,000 X2 = 3,00,000
16	Staining Racks, Staining of Slide		20,000
17	Digital Thermometer to maintain Optimal Temperature of Refrigerator	2	5,000 x2 = 10,000
18	Computer with Printer Scanner	1	1,00,000
Total Mycology laboratory			17,05,000

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5. MEDIA AND STERILISATION

	Name of Equipment	Quantity	Price(Approx) in Rupees
1	Double Distillation unit	1	150,000
2	Laminar Airflow	2	1,00,000 x 2= 2,00000
3	Autoclave double wall, double door	2	300000 x 2 =600000
4	Hot Air oven	2	150000 x 2=300000
5	Laboratory Refrigerator	540 liters - 1 320 liters 1 250 liters - 1	160000 + 90000+ 80000+ - 330000
6	Digital Electronic balance	1	90,000
7	Electronic Top pan balance	2	80,000 x 2= 160000
8	Air purifier Mark III	2	50000 x 2 = 100000
	Total		1930000

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REAGENTS :-

Sl.no	Name of Reagents	Price (Approx) in Rupees
1	Reagents or card unique for ID and AST automated ID and antimicrobial susceptibility testing	
2	Blood Culture bottle for Automated Blood culture	
3	Reagents for ELISA test	50,00,000/-
4	Reagents for PCR	
5	Reagents and supplies	

EQUIPMENTS and reagents (approx) 4,68,10,000.

Laboratory Management:- 7200,000

Annual Maintenance Contract:- 5,00,000

Furniture:- 25,00,000

ETP- 30,00,000

Salary as per Govt. Rule

QA/QC :- 5,00,000

Civil Work :-

Grand Total = 605,00,000/- (Approximately)

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PRIORITISATION OF EQUIPMENTS (MICROBIOLOGY)

	Name of Equipments	Quantity	Price(Approx) in Rupees
1	Biological safety cabinets Class II protective cabinets	1	2,00,000
2	Biological safety cabinets Class I protective cabinets	1	1,50,000
3	Automated machine for identification and antimicrobial susceptibility testing/ automated ID and antimicrobial susceptibility testing (Vitek-2)	1	18,00,000
	Card unique for ID and AST		5,00,000
4	Automated system for Blood culture (BacT Alert) Biomerieux	1	10,00,000
	bacterial Culture ensitivity and culture bottles		5,00,000
5	Fluorescence Microscope	1	10,00,000
6	Compound Microscope Binocular Olympus CX 21	4	150,000 x 4= 600000
3	P C R : R-T PCR	2	20,00,000 x 2= 40,00,000
4	PCR conventional	1	35,00,000
5	Centrifuges – centrifugation machine	2	40,000 x 2 =80,000
6	Dark ground Microscope	1	12,00,000
7	Deep Freezer (-80)	1	3,50000
	Deep Freezer (-20)	1	300000
8	Incubators – CO_2 incubators	2	1,00,000 x 2 = 200000

9	Refrigerators (320 litres)	3	45,000 x 3 =135,000
	Refrigerators (250litres)	3	40,000 x 3 = 120,000
	Laboratory Refrigerator (540 litres)	3	160,000 x 3=480,000
10	Autoclave	2	7,00000
11	Hot Air oven	2	80,000 x2 = 160,000
12	Universal Incubator	3	120000 x 3 = 3,60,000
13	Water bath	1	50,000 x2 = 100000
14	QBC Malaria test system with QBC malaria tube with fluorescence Microscope	1	10,00,000
15	QBC centrifuge	1	80,000
16	Drying oven	1	90,000
17	Dark Ground Microscope	1	120,000
18	Electronic colony counter	2	50,000 x2= 100000
19	Double Distillation unit	1	1,50,000
20	Refrigerated centrifugation	1	1,00,000
21	Vortex mixer	2	60,000 x 2= 120,000
22	Electronic analytical balance	2	90,000 x 2= 180,000
23	VDRL Shaker	2	60,000 x 2= 1,20,000
24	PH meter	2	20,000 x 2= 40,000
25	ELISA washer	2	200,000 x2 = 400000
26	ELISA Reader	2	2,00,000 x 2= 400000
	Printer for the test	2	10000 x2 = 20,000
27	Air Purifier Mark III	2	50,000 x 2 = 1,00,000
28	Rotary Shaker	1	60,000
29	Compound Microscope Binocular Olympus CX 21 with adjustable lens connected to camera and desk top	1	3,00,000
30	BOD Incubator	2	1,50,000 x 2 = 300000
31	Fully Auto Analyser for Microbiology test(ASO titre, Rheumatoid arthritis	1	9,00,000

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	factor etc)		
32	Semi Auto Analyser	1	3,00,000
33	Micro pipette of various sizes		60,000
	Multichannel pipette	4	80,000
34	Ultra centrifuge and microcentrifuge	1	1,00,000
35	Millipore Milli Q water Purification system	1	3,00,000
36	Fume hood	1	80,000
37	Laminar Air flow	1	1,00,000
37	Spectrophotometer	1	60,000
38	Line probe assay Tuberculosis	1	10,00,000
39	Leofflers slope inspissator equipment for preparation media for diphtheria	1	100,000
40	Turbidimetric equipment for serology test clinical Microbiology	1	7,00,000
38	Staining Racks (staining of slides)		20,000
39	Digital Thermometer to maintain optimal temperature of Refrigerator	5	5,000 x 5= 25,000
40	Laboratory liquid shaker	1	80,000
	Computer with printer, scanner	2	1,00,000 x 2= 2,00,000
	Inverter for power backup / generator	1	16,00000
Total			Rs2,63,20,000

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Reagents (Equipment)needed to run the laboratory test-

Name of Reagents	Price (Approx) in Rupees
Reagents or card unique for ID and AST automated ID and antimicrobial susceptibility testing	
Blood Culture bottle for Automated Blood culture	35,00,000/-
Reagents for ELISA test	
Reagents for PCR	
Misc Reagents and supplies	

Grand total – Rs 2,98,20,000 -/-

Note: Liquid Waste generated from Microbiology Department-provision for Effluent Treatment Plan (ETP) – 30,00,000 (Approx)

With ETP total expenditure - Rs 3,28,20,000

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Original

PROPOSAL FOR FREE DIAGNOSTICS CENTRE

BIOCHEMISTRY

GOVT OF MEGHALAYA

SHILLONG, MEGHALAYA.

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FOLLOWING THINGSAREREQUIRED FOR SET UPBIOCMISTRY LAB

1. CENTRIFUGE MACHINE – (24 TUBES) – 4NOS
2. HOT AIR OVEN- 3NOS
3. INCUBATOR – 2NOS
4. AUTOCLAVABLE MICROPIPETTES – 5ul-50ul, 10ul-100ul, 100ul-1000ul, 20ul-200ul- 20 NOS EACH
5. FULLY AUTOMATIC BIOCHEMISTRY ANALYSER – 200test/hr, 100ul MINIMUM REACTION VOLUME (SPECIFICATION IN A SEPARATE SHEET)
6. ARTERIAL BLOOD GAS ANALYSER – 2NOS (SPECIFICATION ATTACHED)
7. ELECTROLYTE ANALYSER – 2NOS (SPEC ATTAACHED)
8. PH METER- 2NOS
9. DIGITAL WEIGHING MACHINE – 2NOS (0 1-10gm)
10. MICROTIPS UP TO 200ul- 100PCK OF 500 NOS EACH
11. MICROTIPS UP TO 1000ul- 100PCK OF 500 NOS EACH
12. MEASURING CYLINDER – 100ML, 200ML, 50ML, 500ML – 10 EACH
13. REFRIGERATOR - (200LITRES) – 4NOS
14. MODULAR SYSTEM WITH FULL AUTOBIOCHEMISTRY + FULLY AUTOMATIC IMMUNOASSAY ANALYSER - 1NOS (SPECIFICATION ATTACHED)
15. VACUTAINER WITH K3 EDTA- 10000
16. VACUTAINER WITH CLOT – 10000
17. VACUTAINER WITH FLORIDE – 10,000
18. COMPUTER INCLUDING UPS FOR 3HOUR BACKUP – 3NOS
19. PRINTER – 3NOS
20. SEROLOGICAL WATER BATH – 1NOS
21. HbAIC ANALYSER SMALL (Point of care model) – 1NOS
22. ON LINE UPS 6KVA – 3NOS
23. WATER TANK – 1000LITRES – 3NOS
24. REALTIME P.C.R. MACHINE.

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25 GLUCOMETER INCLUDING STRIPS(ACCUSURE) - 10NOS
26 STRIPS FOR THE GLUCOMETER – 200NOS
27. TEST TUBE – SIZE(10-X75MM)- 100PCK
(12X 100MM)- 100PCK
(15X125MM)- 100PCK
(15X150MM)- 100PCK
28. CONICAL FLASK -250ML, 500ML- 20 EACH
29 WASH BOTTLE – 500ML- 20NOS
30. TIMER WATCH – 10NOS
31. BOTTLE REAGENT – 125ML – 20NOS
32. BEAKER – 100ML -10NOS
33. CENTRIFUGE TUBE (BOROSIL)- 500NOS
34. FILTER PAPER – 1000NOS
35 THERMOMETER – 10NOS
36.DIGILAB SERTILIZER – 8NOS
37. OCTA PLUS DIGITAL COLORIMETER 8 FLITERS - 4NOS
38.ELECTRONIC WEIGHING MACHINE – 1NOS
39 CHEMILUMINENCE ANALYSER – 1NOS (SPEC ATTACHED)
40 URINE CHEMISTRY ANALYSER – 2NOS
41. TESTTUBE RACK (BIG AND SMALL)- 50 EACH
42 MICROTIP RACKS – 20NOS
43. DIGITAL HEMOMETER(EKF)- 10NOS

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PORTABLE BLOOD GAS WITH ELECTROLYTE IMMUNOASSAY ANALYZER)

Accessories:

- Portable analyzer
- Portable printer (Rechargeable)
- Electronic Simulator (for electronic calibration)
- Printer paper rolls
- Printer Batteries (Rechargeable)
- Lithium batteries

Features & Specification:

- **Blood gas measurement Parameters :**

pH, PO2, PCO2, HCO3, TCO2, Base Excess, Sbcl, SO2

- **Electrolyte Measurement Parameters :**

Sodium (Na), Potassium (K), Ionised Calcium (iCa), Chloride (Cl), Hematocrit (Hct), Hemoglobin(Hb)

- **Added Pparameters :**

Creatinine, Urea, Nitrogen(BUN), Glucose, Lactate, Lactate, Anion Gap

- **Coagulation Parameters :**

APTT (Celite), ACT (Kaolin), PT INR

- **Cardiac Markers :**

TnI (Cardiac Troponin I), CKMB, BNP, D Dimer

Benefits:

- "Point of care" Setup analyzer
- Handheld portable analyzer
- ID & Patient name input.
- Result storage memory 5000 test.
- Weight - 635 gm.
- Power - Two 9 volt lithium batteries
- Bedside monitoring.
- Less amount of blood required.
- Very much user friendly.
- No Chemical & reagents required
- Through Barcode reader
- Special Test for Dialysis unit.
- USFDA APPROVED
- CE APPROVED

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SPECIFICATION FOR ELECTROLYTEANALYSER

1. PRINCIPLE- DIRECT MEASUREMENT WITH ISE MEMBRANE
2. SAMPLE- WHOLE BLOOD SERUM PLASMA, CSF, AND DILUTED URINE
3. MEASURING TIME- 65SEC
4. DATA STORAGE- 600 SERUM/PLASMA, 100 URINE, 100 QC
5. MODE – Na/K/Cl/Li/pH
6. Button for exchange of electrode among Li/ph/ica
7. Machine can be switch off up to 36 hours
8. Standby by Mode- manual and Automatic
9. Reagent pack- 6reagent pack with electronic chip
10. Calibration- Automatic

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BIOCHEMISTRY TEST NAME WITH SYMBOL

Sr. No.	Full Name	Abbreviation
1	Angiotensin Converting Enzyme	ACE
2	α-1-Acidglycoprotein	AFU
3	Albumin	ALB
4	Alkaline phosphatase	ALP
5	Alanine Aminotransferase	ALT
6	α-Amylase	α-AMY
7	Apolipoprotein A1	Apo-A1
8	Apolipoprotein B	Apo-B
9	Antistreptolysin O ** (C and O)	ASO**
10	Antistreptolysin O	ASO
11	Antistreptolysin O T	ASOT
12	Antistreptolysin O T ** (C)	ASOT (C)
13	Antistreptolysin O T — Mini	ASOT — Mini
14	Aspartate Aminotransferase	AST
15	β2-Microglobulin	β2-MG
16	Complement C3	C3
17	Complement C4	C4
18	Calcium	Ca
19	Cholinesterase ** (C and O)	CHE**
20	Creatine Kinase	CK
21	Creatine Kinase-MB	CK-MB
22	Bicarbonates ** (C and O)	CO2**
23	Creatinine	CREA-J
24	Creatinine	CREA-S
25	C-Reactive Protein	CRP
26	Cystatin - C II	CysC II
27	Cystatin - C II — Mini	CysC II — Mini
28	Bilirubin Direct	Bil-D(DSA)
29	Bilirubin Direct	Bil-D(VOX)
30	D-Dimer ** (C)	D-Dimer*
31	beta Hydroxybutyrate ** (C)	β-HB*
32	Iron ** (C and O)	Fe**
33	Ferritin	FER
34	Ferritin * (C)	FER*
35	Full Range C-Reactive Protein	FURCRP
36	Fructosamine ** (C and O)	FUN**
37	Gamma-Glutamyltransferase	GGT
38	Glucose	Glu-G
39	Glucose (Hex)	Glu-HK
40	Glucose-6-Phosphate Dehydrogenase	G6PD
41	Haemoglobin A1c ** (C and O)	HbA1c**
42	Haemoglobin A1c	HbA1c
43	Haemoglobin A1c (Variant)	HbA1c (V)

39

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44	a-Hydroxybutyrate Dehydrogenase	a HBDH
45	HDL-Cholesterol	HDL-C
46	High Sensitivity CRP *(C)	HS-CRP*
47	Immunoglobulin A	IgA
48	Immunoglobulin E	IgE
49	Immunoglobulin G	IgG
50	Immunoglobulin M	IgM
51	Lactate Dehydrogenase	LDH
52	LDL-Cholesterol	LDL-C
53	Lipase ** (C and Q)	LIP**
54	Lipoprotein (a)	Lp(a)
55	Microalbumin*(C)	MALB*
56	Microalbumin*(C) -- Mini	MALB* -- Mini
57	Microalbumin	MALB
58	Magnesium	Mg
59	Myoglobine *(C)	Myo*
60	Phosphorus	P
61	Prealbumin	PA
62	Retinol Binding Protein *(C)	RBP*
63	Rheumatoid Factor ** (C and Q)	RF**
64	Rheumatoid Factor	RF
65	Rheumatoid Factor Q	RF Q
66	Rheumatoid Factor Q *(C)	RF Q *(C
67	Rheumatoid Factor Q -- Mini	RF Q -- Mini
68	Total Bile Acids	TBA
69	Bilirubin Total	Bil-T(DSA)
70	Bilirubin Total	Bil-T(VOX)
71	Total Cholesterol	TC
72	Triglycerides	TG
73	Total Protein	TP
74	Total Protein in Urine/CSF (TPUC)	TPUC
75	Transferrin	TRF
76	Uric Acid	UA
77	Unsaturated Iron Binding Capacity * (C)	UIBC*
78	Unsaturated Iron Binding Capacity	UIBC
79	Urea	UREA
80	ALBUMIN CREATININE RATIO	
81	ALCOHOL	
82	COPPER	
83	CREATININE KINASE (CPK)	
84	FLUID EXAMINATION	
85	GLOMERULAR FILTERATION RATE	
86	OXALATES	
87	PROTEIN TOTAL	
88	PROTEIN TOTAL W/ ALBUMIN	

AO

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LIST OF TEST IN ELECTROLYTE

1. SODIUM
2. POSTASSIUM
3. CHLORIDE
4. IONISED CALCIUM
5. LITHIUM

LIST OF TEST DONE IN IMMUNOASSAY SEGMENT

1. *THYRIOD*
   - *A. T3*
   - *B T4*
   - *C. TSH*
   - *D FT3*
   - *E FT4*
   - *F. ANTI-TG*
   - *G. ANTI-TPO*
   - *H. THYROGLOBULIN(TG)*

2. *FERTILITY*
   - *A. TOTAL b-HCG*
   - *B. FSH*
   - *C. LH*
   - *D. PROLACTIN*
   - *E. E2*
   - *F E3*
   - *G. TESTOSTRONE*
   - *H. PROGESTERONE*
   - *I. DHEA-S*

3. *TUMOR MARKER*
   - *A. CEA*
   - *B. AFP*
   - *C. CA 125*
   - *D. CA15-3*
   - *E. CA19-9*
   - *F. PSA*
   - *G. FPSA*
   - *H TPSA*
   - *I. FERRITTIN*

A1

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J. NSE
K. CYFRA 21-1
L. CA72-4

4 INFECTITIOUS DISEASES

A.HbSAg
B. ANTi-HBs
C. HBeAg
D. ANTI HBe
E. ANTI HBc
F HIVE Ag/Ab COMBO
G ANTI HCV
H ANTI TPPA(SYPHILLIS)

6 CARDIAC MARKERS
A. MYOGLOBIN
B. TROPONIN-I
C. BNP
D. CK-MB

7 DIABETES
A. INSULIN
B. C-PEPTIDE

8 BONE MARKER

A. PTH
B. CALCITONIN
C. VITAMIN -D

9 ANEMIA

A. FLOLIC ACID
B. VITAMIN B-12

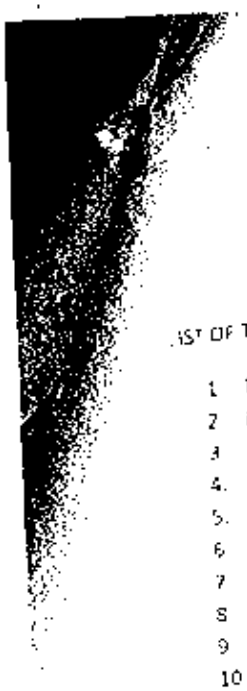
10. OTHERS

A. ACTH

B CORTISOL

A2

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IST OF TEST IN GENETICS LABORATORY

1. BCR-ABL(9 22) QUALITATIVE
2. BCR ABL(9 22) QUANTATIVE
3. BRUCELLA DNA PCR
4. CYTOMEGALOVIRUS DNA PCR
5. FACTOR V LAIDEN MUTATION
6. DANGUE RNA PCR
7. HELICOBACTER PYLORLI PCR
8. HERPES SIMPLEX VIRUS 1&2 DNA PCR
9. HIV- DNA PCR QUALITATIVE
10. HIV DNA PCR – QUALITATIVE (PLASMA)
11. IMMUNOFIXATION ELECTROPHORESIS
12. HEPATITIS B VIRUS - VIRAL LOAD
13. HEPATATIS B VIRUS QUALITATIVE
14. HEPATATIS C VIRUS – VIRAL LOAD
15. HEPATATIS C VIRUS – QUALITATIVE
16. HEPATATIS C VIRUS – GENOTYPING +VIRAL LOAD
17. HERPES SIMPLEX VIRUS 1&2 DNA PCR
18. LEPTOSPIRA DNA PCR
19. MEASELES –PCR
20. MYCOBACTERIUM TUBERCULOSIS DNA PCR WITH GRAPHICS( )
21. MYCOBACTERIUM TUBERCULOSIS mRNA PCR(FLUID, SPUTUM, PUS)
22. MYCOBACTERIUM TUBERCULOSIS DNA PCR WITH GRAPH(URINE)
23. MYCOBACTERIUM TUBERCULOSIS DNA PCR WITH RAPH(SPUTUM)
24. PROTEIN ELECTROPHORESIS WITH GRAPH
25. PROTEIN ELECTROPHORESIS (OLIGONOAL BANDS)
26. RH ANTIBODY - TITRES

A3

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Annexure AN

31st meeting of IMC/NESIDS Committee scheduled on 29/10/2021
IV. CHECKLIST-CUM-AGENDA NOTE FOR CHANGE IN SCOPE ALONGWITH REVISION IN COST
(to be submitted by Programme Division, MDoNER)

Agenda Item No.:	**State: Meghalaya**

Name of Project: Construction including M&BT of Intermediate lane on Rongjeng Mangsang A'dokgre Road from 0.00 km to 32.00 km and 39.00 to 43.00 km including 90.00 m bridge over Ildek river at 44th km

Project Description/Summary (not exceeding 200 words): The project was approved 'in principle' for the entire stretch at a cost of Rs.210 cr in 150th NLCPR Committee meeting (held on 28.3.2017) out of which Rs.123.28 cr was to be funded from balance entitlement of Meghalaya as first phase under NLCPR. The work was to be started from 0.00 km and to be executed in continuity. It was decided in a meeting held on 09.06.2017 between Secretary, MDoNER and Secretary, NEC at New Delhi that remaining balance amount of Rs. 86.72 cr would be funded by NEC. Accordingly, an amount of Rs.40.22 cr. (after adjusting Rs.10 lakh as initial payment) was released by MDoNER to State Government under NLCPR and Rs.21.21 cr. was released by NEC. The sanction of the balance amount of this road was placed in the SFC meeting held on 27.6.2018 for appraisal along with few other projects under NEC funding at New Delhi. JS&FA, MDoNER did not recommend the project as per EFC of December 2017 NEC was not supposed to sanction any new project any other than NERSDS. Accordingly, NEC closed the project. The said matter was discussed in the review meeting of projects funded under NLCPR/NEC under the Co-chairmanship of the Secretary, Ministry of DoNER and Chief Secretary, Government of Meghalaya held on 25.01.2021 and wherein NEC suggested that funds for the project may be divided into stretches and, the Chief Engineer, PWD, Government of Meghalaya may discuss the process of funding of the balance amount for the project under NERSDS. With respect to the restriction of sanction of the project under NLCPR scheme, the state Government was suggested to formulate DPR with the change in scope within the sanction cost of Rs. 123.38 crore. Accordingly, SG of Meghalaya has submitted the proposal for change in scope of work at cost of Rs. 123.38 crore with recommendations of SLEC in its meeting held on 06.09.2021.

1	**IMC/NESIDS/NLCPR/HADP/ Special Package meeting no. and date in which sanctioned**	**150th meeting held on 28.03.2017**		
2	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastructure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Road		
3	**Date of receipt of proposal for Change in Scope alongwith Revision of cost from State Government (SG)**	08.09.2021		
4	**Original cost**	**Revised Cost**	**Changes proposed**	**Reasons/justification for change**
	1	2	3	4
	210	123.28	comparitive sheet attached	Detailed justification given in project description

5	**Original approved project cost**			**Revsied project cost (if any)**			**Reasons/justification for revision of the cost.**
	Central Share (Rs. in crores)	**State Share (Rs. in crores)**	**Total (Rs. in crores)**	**Central Share**	**State Share**	**Total**	
	1	2	3	4	5	6	7
	110.95 (including work charge & agency charge) -NLCPR share	12.33	123.28 (including work charge & agency charge)	110.95	12.33	123.28	Detailed justification given in project description
	78.05 (including work charge & agency charge)-NEC share	**8.67**	86.72				
			210				

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6	Original time frame for completion	Revised time frame for completion	Reasons/justification for change in time frame for completion
	1	2	3
	2 years	–	–
7	**Is the proposal accompanied with following documents: (Specify)**		
	(a) Revised Techno-Economic vetting of DPR by SLEC (if applicable)	No	Not provided by SG
	(b) Revised Abstract of Cost signed by Competent Authority (if applicable)	Yes	
	(c) Minutes of SLEC meeting approving the change of Cost	Yes	
	(d) Requisite certificates		
	(e) Any other (specify)		
8	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**		
	Name of line Ministry/IFD/Technical Wing/Others	**Date of sending for comments**	**Date of receipt of comments (if any)**
	1	2	3
	IFD	22.10.2021	**comments awaited**
	Technical wing	22.10.2021	**25.10.2021**
	Ministry of Health and Family Affairs	22.10.2021	**comments awaited**
	NITI Aayog	22.10.2021	**comments awaited**
9	**Important observations/comments of Prog. Division**		
	SLEC in its meeting held on 06.09.2021 has recommended the proposal for change in scope of work along with revision in cost. The programme division has found the project in order.		

(Dated Signature & Name of concerned Under Secretary) 27/10/21.

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Annexure

Comments of consulted line Ministries/IFD/Technical Wing, MDoNER

Sl.No.	Name of the line Ministry/IFD/Technical Wing, MDoNER	Comments in brief	Response of SG/proposal submitting agency to the comments	Response of programme Division
1	2	3	4	5
1	Technical wing	It is pointed out that the decision has already been taken in the SLEC meeting held on 06.09.2021 under the chairmanship of Chief Secretary, Government of Meghalaya. Now, Govt. of Meghalaya has submitted the revised DPR along with a proposal for change in scope to the M/o DoNER which is under scrutiny in Technical wing for comparison to the original DPR but original DPR is not available in this office.		DPR has been forwarded to Technical wing.

27/10/21

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Sl. No.	Items of Work	Cost as per AFA	Revised cost	Remarks
1	Earth work in formation (cutting and filling) and Clearing grubbing, unline surf-ace drain including tree cutting etc	455831767.91	485834599.37	
2	Construction of Single Opening H.P Culvert (NP-4)	62061476.40	62061476.40	
3	Construction of Double Opening H.P Culvert (NP-4)	6209332.56	6209332.56	
5	Construction of 2.00 M span Slab Culvert	4709736.00	4709736.00	
6	Construction of 4.00 M span Slab Culvert	1558373.00	1558373.00	
7	Construction of 10.00 M span RCC Bridge	40791110.00	0.00	not included
9	Construction of 12.50 M span Slab Culvert	9740808.00	0.00	not included
10	Construction of 24.75 M span RCC Bridge No. 28/5	31590429.00	15750191.00	
11	Construction of 2x21.00 +2x24.00 span RCC Bridge	106206129.00	0.00	not included
12	Construction of Stone Masonry Retaining Wall	45812510.52	0.00	not included
13	Construction of Stone Masonry Retaining Wall	12928116.67	0.00	not included
14	Construction of Stone Masonry Retaining Wall	24192570.50	0.00	not included
15	Construction of Stone Masonry Retaining Wall	5003586.00	0.00	not included
16	Pavement use of EVOCRETE CCL (GERMAN)	657579030.00	383254814.00	
17	Black topping (BM & SDBC)	343733567.92	165638558.68	
	Traffic sign and Road Furniture	27218664.90	0.00	not included
	Bus shed at Rongjeng A/dokgre Road	1500000.00	0.00	not included
	Total	1836667208.38		
	Add 5 % of Work charge Establishment	93333360	0.00	not included
	Add 7.50 % for agency charges	140000041	0.00	not included
		2070000609.38		
	Newly added components in the revised proposal			
	Construction of Triple Opening H.P. Culvert (NP-4)		2186622.24	
	Construction of 10.50 M span (RCC Bridge No. 11/2, 22/1 & 26/3)		31623433.00	
	Construction of Stone masonry pucca side drain		11103967.50	
	Construction of Stone masonry Breast Wall		4603483.68	
	Construction of Stone Masonry Retaining Wall		50186699.98	
	Construction of RCC Footpath		1614060.00	
	Additional amount for utility shifting (PHE pipe line)		6500000.00	
			1232835347.41	

27/10/21

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MINUTES OF MEETING OF THE STATE LEVEL EMPOWERED COMMITTEE(SLEC)HELD ON 06-09-2021 UNDER THE CHAIRMANSHIP OF CHIEF SECRETARY, GOVERNMENT OF MEGHALAYA

Member Present as at Annexure - A

The meeting of the SLEC was chaired by Shri. M. S. Rao, Chief Secretary, Government of Meghalaya through video conference which was attended by senior officials of the State Government. Ministry of DoNER was represent by Shri. Saurabh Endley, Joint Secretary, M/o DoNER. While welcoming the officials, the Chairman indicated that the meeting was convened to discuss the following issues pertaining to projects funded under NLCPR scheme:

A. Change in scope of projects:

1. **Construction including M&BT of Intermediate lane on Rongjeng Mangsang A'dokgre Road from 0.00 km to 32.00 km and 39.00 to 43.00 km including 90.00 m bridge over Ildek river at 44th km:**

Details of the project:

- The project was sanctioned at a total cost of ₹210.00 lakh during 2017-18 by the Ministry of DoNER of which an amount of ₹ 123.28 crore was to be funded under NLCPR and the balance amount of ₹86.72 crore to be funded by NEC.
- Under NLCPR an amount of ₹ 40.32 crore was released as first installment for which UC was submitted.
- The component to be funded by NEC was subsequently de-sanctioned in the month of March 2020.
- Thereafter, Ministry indicated that the road project under the NLCPR scheme was restricted to ₹ 123.28 crore.
- The Ministry had also requested that the revised DPR along with a proposal for change in scope be submitted to the Ministry with the recommendation of the SLEC.

Decision: After a thorough discussion the Committee recommended the revised proposal with the change in scope within the NLCPR commitment of ₹ 123.28 crore.

2. **Construction of Shopping Complex-cum-Auditorium near Lumshad, Lad Mawngap:**

Details of the project:

- The project was sanctioned by MDoNER at a total cost of ₹ 231.37 lakh during 2008-09.
- Subsequently, the Ministry released the 1stinstalment amounting to ₹ 72.88 lakh.
- However, the project could not take off due to persistent problems.

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- After resolving the issues, C& RD Department submitted the revised proposal amounting to ₹ 231.34 lakh based on the PWD (B) SOR 2015-16 which has also been recommended by the SLEC in its meeting held on 11-02-2021.
- However, the Ministry had requested to submit the proposal for change in scope of work and action taken against the defaulting contractor with the recommendation of the SLEC.

Decision: After thorough discussion, the Committee endorsed the justification relating to the reduction in the scope of work from G+2 to G+1 and the action taken against the contractor by cancelling the work allotted to the contractor and forfeiting the security deposit of the contractor. The Committee recommended the proposal.

B. **Approval of re-schedule date of completion of project:**

As per Para 5 (xv) of the revised guidelines of NLCPR project, re-scheduled date of completion in the case of delay because of unforeseen circumstances can be approved by the Ministry on the recommendation of the SLEC. In this connection, the following projects were placed before the SLEC for approval of the re-schedule date of completion.

1. **Construction including M&BT of Intermediate lane on Rongjeng Mangsang A'dokgre Road from 0.00 km to 32.00 km and 39.00 to 43.00 km including 90.00 m bridge over Ildek river at 44th km.**
   a. Sanctioned cost: - ₹ 210 crore (₹ 123.28 crore under NLCPR)
   b. Sanctioned date: - 19-06-2017
   c. Amount released:
      i. 1st instalment : - ₹ 40.32 crore
      ii. Release date: - 09-10-2017
   d. Overall physical progress: 45% (as on December 2020)
   e. Original date of completion as per the AFS is 24 months from the date of release of 1st instalment i.e. 09-10-2019
   f. Re-schedule date of completion: 30-06-2022
   g. Reasons for delay:
      i. During execution of earthwork hard rock requiring blasting was encountered and due to the law and order problem in Garo Hills District procuring of explosives materials was handicapped and the pace of the work was slowed down.
      ii. Scarcity of Stone aggregates due to restriction imposed on quarrying of stone materials.
      iii. Due to lack of funds

2. **Construction of a major bridge over River Daru on Jholgaon – Katuli in the State of Meghalaya:**
   a. Sanctioned cost: - ₹ 14.70 crore
   b. Sanctioned date: - 19-06-2017

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c. Amount released:
   i. 1st instalment : - ₹ 5.13 crore
   ii. Release date: - 03-10-2017
d. Overall physical progress: 93% (as on March 2021)
e. Original date of completion as per the AFS is 24 months from the date of release of 1st instalment i.e. 03-10-2019
f. Re-schedule date of completion: 31-12-2021
g. Reasons for delay:
   i. Non-availability of stone throughout the year 2017 and 2018 because of ban on quarry
   ii. The work was affected by flood during 2019-20 as well as on 2020-21.
   iii. Suspension of work on account of the outbreak of Covid – 19.
   iv. Non-receipt of funds regularly

3. **Construction of a road from Rongsang Abagre to Bandalkona connecting Betasing – Mellim with bridges:**
a. Sanctioned cost: - ₹13.76 crore
b. Sanctioned date: - 25-05-2017
c. Amount released:
   i. 1st instalment : - ₹ 4.95 crore
   ii. Release date: - 03-10-2017
d. Overall physical progress: 90% (as on March 2021)
e. Original date of completion as per the AFS is 24 months from the date of release of 1st instalment i.e. 03-10-2019
f. Re-schedule date of completion: 31-12-2021
g. Reasons for delay:
   i. Suspension of work on account of the outbreak of Covid-19.
   ii. Non- availability of stone throughout the year 2017 and 2018 because of ban on quarry Scarcity of Stone aggregates due to restriction imposed on quarrying of stone materials.
   iii. Non receipt of fund regularly.

4. **College of Science and Commerce at Mahendraganj:**
a. Sanctioned cost: - ₹ 36.31 crore
b. Sanctioned date: - 30-06-2017
c. Amount released:
   i. 1st instalment : - ₹ 12.20 crore
   ii. Release date: - 28-09-2017
d. Overall physical progress: 43%
e. Original date of completion as per the AFS is 24 months from the date of release of 1st instalment i.e. 28-09-2019
f. Re-schedule date of completion: 30-06-2022
g. Reasons for delay:
   i. Due to delay in handing of the land.

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ii. Due to non-availability of construction materials like sand, stone, etc. in view of NGT notification.
iii. The work was affected by flood during 2019-20 as well as on 2020-21.
iv. Due to Nation-wide Lockdown on account of COVID – 19 pandemic.

5. **College of Science and Commerce at Mawphlang**

a. Sanctioned cost: - ₹ 36.55 crore
b. Sanctioned date: - 30-06-2017
c. Amount released:
   i. 1st instalment : - ₹ 11.16 crore
   ii. Release date: - 01-11-2018
d. Overall physical progress: 60% (as on March 2021)
e. Original date of completion as per the AFS is 24 months from the date of release of 1st instalment i.e. 01-11-2020
f. Re-schedule date of completion: 31-03-2022
g. Reasons for delay:
   i. Due to delay in handing of the land.
   ii. Due to Nation-wide Lockdown on account of COVID – 19 pandemic.

Decision: After thorough discussion, the Committee approved the rescheduled date of completion of the above projects as the reasons for delay cited by the Departments were found to be reasonable and justified.

The meeting ended with vote of thanks from the chair.

Sd/-
(M. S. Rao)
Chief Secretary, Govt. of Meghalaya
&
Chairman, SLEC

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Memo No. PLR.159/2016/126-A **Dated Shillong, the 8th September, 2021**

Copy to: -

1. P.S. to Chief Secretary, Govt. of Meghalaya, Shillong for kind information of the Chief Secretary.
2. P.S. to the Additional Chief Secretary to the Govt. of Meghalaya, i/c Finance / Education / Public Works Department for kind information of the Additional Chief Secretary.
3. The Principal Secretary to the Govt. of Meghalaya, C&RD Department, Shillong for kind information.
4. The Joint Secretary, Ministry of DoNER, Vigyan Bhawan Annexe, Maulana Azad Road, New Delhi -110011 for kind information.
5. The Commissioner & Secretary to the Govt. of Meghalaya, Planning Department, Shillong for kind information.
6. The Secretary to the Govt. of Meghalaya, Public Works Department, Shillong for kind information.
7. The Director, Higher & Technical Education / C&RD, Govt. of Meghalaya, Shillong for kind information.
8. The Chief Engineer, PWD (Roads / Buildings), Govt. of Meghalaya, Shillong, for kind information.

By order etc.,

Officer on Special Duty & ex-officio
Secretary to the Govt. of Meghalaya
Planning Department
****

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ANNEXURE – A

OFFICIALS PRESENT IN THE MEETING OF STATE LEVEL EMPOWERED COMMITTEE (SLEC) HELD ON 06-09-2021 UNDER THE CHAIRMANSHIP OF CHIEF SECRETARY, GOVERNMENT OF MEGHALAYA

1. Shri. M. S. Rao, IAS, Chief Secretary, Government of Meghalaya.
2. Shri. Saurabh Endley, Joint Secretary, Ministry of DoNER (attended through Video Conference)
3. Shri. S. C. Sadhu, IAS, Secretary, C&RD Department, Government of Meghalaya.
4. Shri. A. Ch. Marak, IAS, Secretary, Education Department, Government of Meghalaya.
5. Shri. Robert Lyngdoh, Secretary, Planning Department, Govt. of Meghalaya.
6. Shri. T. G. Nengnong, Secretary, Public Works Department, Govt. of Meghalaya.
7. Shri. J. V. Lyngdoh, Chief Engineer, PWD (Buildings), Government of Meghalaya.
8. Shri. G. K. Marak, Chief Engineer, PWD (Roads), Government of Meghalaya.

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708 O/O SPL. SECY(I)

...2019-O/o US (NLCPR)
...ER/NLCPR/Meg/206/2017
Government of India
...opment of North Eastern Region
...Maulana Azad Road, New Delhi - 110 011

...250/327

To,

The Chief ...
Govern...
Main Sec...
Riland...
Megha...
...illong - 793 001.

Dated: 19th June, 2017

Subject: Admin... approval for Central financial assistance under Non-lapsable ... Resources (NLCPR) Scheme for the Project "Construction ... immediate lane on Ronglang Mangsang A'dokgre Road from 0.00 Km ... 2.00 Km and 39.00 to 43.00 Km. including 90.00 m bridge over Ildek ... Km under NLCPR in Meghalaya.

Sir,

I am directed to convey In-principle Administrative and Financial approval of Government of India for the above mentioned project, the sanctioned cost of which is Rs.210.00 crore as per detailed break up given below, subject to compliance of the conditions mentioned in Para 2. However, the sanction is restricted to Rs.110.95 crore (90% admissible amount) of Rs.123.28 crore in the first phase subject to the condition that the work would be started from 0.00 KM and would be executed in continuity.

Sl. No.	Description of works	Amount in Rs.
1.	Earth Work in formation (Cutting & filling) and Clearing grubbing, unlined surface drain including tree cutting etc	45,56,31,767.91
2.	Construction of Single Opening H.P. Culvert (NP-4)	6,20,61,476.40
3.	Construction of Double Opening H.P. Culvert (NP-4)	62,09,332.56
4.	Construction of 2.00 M span Slab Culvert	47,09,736.00
5.	Construction of 4.00 M span Slab Culvert	15,56,373.00
6.	Construction of 10.00 M span RCC Bridge	4,07,91,110.00
7.	Construction of 12.50 M span RCC Bridge	97,40,808.00
8.	Construction of 24.75 M span RCC Bridge	3,15,90,429.00
9.	Construction of 2x21.00+2x24.00 span RCC Bridge	10,62,06,129.00
10.	Construction of Stone Masonry Retaining Wall	4,58,12,510.52
11.	Construction of Stone Masonry Retaining Wall	1,29,28,116.87
12.	Construction of Stone Masonry Retaining Wall	2,41,92,570.50
13	Construction of Stone Masonry Retaining Wall	50,03,586.00
14	Pavement use of EVOCRETE CCL (GERMANY)	65,75,79,030.00
15	Black Topping (BM & SDBC)	34,37,33,567.92
16	Traffic Sign and Road Furniture	2,72,18,664.90
17	Bus shed at Ronglang A'dokgre Road	15,00,000.00
	Total	186,66,67,208.00
	Add 5% for Work Charged Establishment	9,33,33,360.00
	Add 7.50% for Administrative Expenses	14,00,00,041.00
	Grand Total	210,00,00,609.38
	Say (Rs.)	210,00,00,000.00

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1. Approval of Ministry of Development of North Eastern Region (M/o DoNER) is subject to following conditions;-

a. There shall be no change in the sanctioned component of work as mentioned in the DPR.

b. State Government/ Implementing Department will execute the work as per vetted DPR approved by the SLEC.

c. The funds shall be released by Ministry of DoNER in two installments. The first installment will consist of 40 % of central share of assistance and second installment will be for the balance central share of 60 %. A token amount of Rs. 10.00 lakh will be released by the Ministry as part payment of the first installment so that tender formalities could be initiated and finalized by the State Government. Thereafter, the State Government will approach the Ministry with a copy of work order/award letter for claiming the release of balance of first installment of funds.

d. Second installment of central assistance will be released by the Ministry of DoNER once the State Government has mandatorily released and utilized full State share and the physical progress is not less than 50%. Further, release of second installment will be preceded by State Government furnishing Utilization Certificate along with physical and financial progress report, duly signed by the Secretary of the implementing Department and countersigned by the Planning Secretary of the State Government.

e. It shall be mandatory on part of State Governments to award contract(s) after following a transparent tender procedure. Tender notices and contracts will incorporate binding clauses for incentives to contractors for early completion and penal provisions for delays.

f. Works should be awarded within six month of the issue of the sanction by the Ministry and a copy of the work order endorsed to the Ministry of DoNER. In case, no work order is received by Ministry of DoNER within a period of six months of the release of first installment of funds, the sanction of the project shall stand cancelled.

g. Tender notices and contracts will incorporate binding clauses for incentives to contractors for early completion and penal provisions for delay.

h. No work shall be undertaken before issue of Administrative Approval and Expenditure Sanction by the Competent Authority on the basis of estimates framed. Execution of Contract Agreement or Award of work should be done before commencement of the work. Any work done prior to sanction of the project will not be funded by the Ministry.

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(12)

project to the Implementing Agency within a period of one month of release of funds by the Ministry of DoNER. If the released fund is not transferred to the Implementing Agency within 1 month and a copy of such transfer is not received in Ministry of DoNER, the project will stand chances of being cancelled and money utilized for completion of other ongoing projects.

j. Notice Board, including social audit aspects, should be available at the project implementation site. The Board should indicate the date of sanction of the project, likely date of completion, estimated cost of the project, source of funding i.e. Non-lapsable Central Pool of Resources (Government of India), contractor(s) name and the physical Target. After completion of projects, State Government will put a permanent display on site like plaque on the wall etc. after asset is created displaying details of NLCPR funding.

k. Tendering process should be transparent. State Government should ensure that tender has been called on competitive basis by giving wide publicity in print media (National and Local Newspapers) and website etc. Tender notices etc. issued by the State Governments are necessarily to be linked to the Ministry of DoNER/NEC websites.

l. State Government should follow all codal formalities and strictly adhere to project implementation schedule and physical targets, as per DPR and suggested by the line Ministry/ Agency.

m. Project implementation by State Government will be governed by rules/ conditions stipulated in the revised guidelines of NLCPR scheme.

n. Time frame for completion of the project is 24 months, from date of release of admissible amount of 1st installment. Time frame should be followed strictly.

o. State Government will firm up quarterly physical and financial targets keeping in view target date and convey the same to this Ministry within one month immediately on receipt of this sanction letter. Thereafter, quarterly report in physical and financial progress of project should be furnished to M/o DoNER within two weeks of close of quarter.

p. Project will be implemented strictly in time and with help of PERT/CPM Chart.

q. Funds will be utilized within specified time and strictly for purpose for which sanctioned. No diversion of funds is allowed.

r. Any escalation towards cost of project has to be borne by State Government from own resources.

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North Eastern Region-14016/7/2019-O/o US (NLCPR)
70851/2019/O/o SPLO DoDY(IP) Nirman Bhawan Annexe, Maulana Azad Road, New Delhi-11

v State Government will ensure submission of Quarterly Progress Report as per progress of work executed based on PERT and not item wise progress which is shown to be reflecting to be same as percentage of expenditure.

3. This sanction issues with concurrence of Integrated Finance Division vide their **Dy. No. DS(IFD)/256/17 dated 14.06.2017.**

Yours faithfully,

19/6/17

(V.L. Roui Kullai)
Director

Copy to:-

1. Secretary, North Eastern Council, Shillong
2. Principal Secretary, Planning, Government of Meghalaya, Shillong.
3. Secretary, Finance, Government of Meghalaya, Shillong
4. Secretary, PWD, Govt of Meghalaya, Shillong.
5. Secretary, Department of Expenditure, Ministry of Finance, Govt of Indra, with reference to his D.O. No. 37(1)/PF.I/05 dated 09.06.2005
6. Principal Accountant General / Accountant General (A&E), Govt. of Meghalaya
7. Manager, RBI, Nagpur.
8. CCA, Ministry of DoNER, Nirman Bhawan, New Delhi.
9. IFD, Ministry of DoNER.

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NLCPR-16016/7/2019-O/o US (NLCPR)

258/327

7(2)2/2020/O/o SPL. SECY(IP)

Government of India
North Eastern Council Secretariat
Nongrim Hills, Shillong - 793003

No. NEC/(T&C)/APPROVAL/Meghalaya/2017-18/11

Dated 30th March, 2018

To,

The Accounts Officer,
Principal cum Pay & Accounts Office
Ministry of Development of North Eastern Region
5th Floor, I Block, GPO Complex, INA
New Delhi - 110023

Sub: Administrative Approval for Balance work of Ronggeng Manglang Adokgre road from 0.00 km to 32.00 km and 19.00 to 41.00 km including 90.00 m Bridge over Ildek river at 44th km'

Sir

In pursuant to the Approval accorded by the Minister of Development of North Eastern Region vide their OM No.DNER/NLP/MEG/2006/2017 dated 14.06.2017 (Copy enclosed), the Secretary, NEC accords the Administrative Approval to the above mentioned work under NEC programme at an estimated cost of **Rs 86.73 crore (Rupees eighty six crore seventy two lakh) only** subject to the following terms and conditions

(i) **Work is to be completed within the scheduled date as indicated at Para 2 below after release of funds by NEC to the state Govt.**

(ii) **Payment of contingency on the revised cost estimate may not be allowed**

(iii) **Incomplete work after schedule date will not be funded by NEC and concerned deptt., of state Govt. will have to fund from its own sources and will also refund money for any incomplete work at the end of schedule date of completion**

(iv) **Progress of the work will be checked by independent evaluator**

(v) **State Govt./ Implementing agency should maintain transparency, as follows :**

- **The project is recommended as proposed by the Govt of Meghalaya based on additional/ allied works.**
- **The expenditure for the above project will be met from Plan funds of NEC to the extent of 90% of the approved cost and 10% will be borned by the State govt.**
- **Project will be implemented by the Govt. of Meghalaya and would be completed by March, 2020, failing which State Government has to bear the additional cost for the balance works.**

2. **NEC funding would be restricted to Rs.78.05 crore (Rupees seventy eighty crore five lakh) only being Grant-in-Aid (90% of the sanctioned cost). 10% of the sanctioned cost being the state's share would be borne by the Govt. of Meghalaya. The work will be completed by March, 2020.**

3. **The expenditure on the work during the current financial year should be met from the total provision made in the budget for NEC plan scheme for 2017-18 in respect of Road [illegible] Scheme (MLP) Head (5401') to be implemented by the Govt.**

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4. The work will be executed by the Govt. of *Meghalaya* through their Public Works Department. The expenditure pertaining to the work should be classified in the State Govt. budget the Departmental accounts in accordance with the instructions contained in the Govt. of India, Ministry of Finance and Department of Economic Affairs letter No F.1(40)-B-75 dated 22nd July, 1975 addressed to the Accountant General with a copy endorsed to the Finance Department of the State Govt.

5. Out of the total estimated cost of Rs.210.00 crore for the project (As per OM No.DNER/NLP/MEG/2006/2017 dated 16-06-2017) Ministry of DoNER has sanctioned for Rs.123.28 crore under NLCPR. The balance amount of Rs.86.72 crore will be funded by NEC for which the State Govt. has to prepare an estimate by segregating the works of the roads to be implemented under NEC funding preferably a portion of the road from ch.43.00 Km towards ch.0.00 Km along with all other works like C/D, earthwork and pavement works.

6. Sanction for the work will be issued by the State Govt. according to their usual procedure. It should be ensured that before taking up the work and issue of technical sanction, a detailed estimate is prepared by complying fully with the guideliones of sanction under NLCPR.

7. It will remain open to inspection/monitoring by NEC during the project implementation period.

8. NEC's share shall be released based on year wise phasing the 1st installment and subsequent installments shall be released strictly depending on the satisfaction of the physical and financial progress report and submission of utilization certificate against the earlier releases. The final installment shall be considered on receipt of completion & commissioning report, U/C on both NEC's share and State's share, final expenditure statement, photographs and inspection by NEC.

9. A Quarterly Progress Report (both physical and financial) should be submitted by the Chief Engineer, Public Works Department, Govt. of *Meghalaya* to Adviser (T&C), with a copy to Financial Adviser, NEC and Director (E&M) of this Secretariat within 15th days of the quarter ending, commencing from the quarter of 1st release of fund from NEC.

10. The expenditure involved is debitable to the relevant Major Head and Sub-Head under **Demand No 023, Major Head 3601, Sub-Major Head 08, Minor Head 796, Sub-Head 03, Detailed Head 00, Object Head 35- Grants for Creation of Capital Assets.**

11. This issue with the concurrence of Financial Adviser, NEC vide Dy.No.359 dated 30-03-2018.

Yours faithfully,

(M. Kalita)
Executive Engineer (T&C)

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260/327

NLCPR-16016/7/2019-O/o US (NLCPR)

7032/2020/O/o SPL. SECY(IP)

Memo No. NEC/(T&C)/APPROVAL/Meghalaya/2017-18/11 Dated 30th March, 2018

Copy forwarded to the :

1. Director (NEC), Ministry of DoNER, Vigyan Bhawan Annexe, Maulana Azad Road, New Delhi 110 001.
2. Director (NLCPR-Meghalaya), Ministry of DoNER, Vigyan Bhawan Annexe, Maulana Azad Road, New Delhi 110 001 – w.r.t OM No.DNER/NLP/MEG/2006/2017 dated 16-06-2017
3. Controller of Accounts, Principal Accounts Office, C-I Hutment, Dalhousie road, New Delhi – 110 001.
4. Accountant General (Audit), Meghalaya, Shillong-1.
5. Chief Secretary, Government of Meghalaya, Shillong.
6. Secretary, Finance Department, Government of Meghalaya, Shillong for information and necessary action.
7. Secretary (Planning), Govt. of Meghalaya, Shillong.
8. Secretary (PWD), Govt. of Meghalaya, Shillong.
9. Chief Engineer (PWD), Govt. of Meghalaya, Shillong.
10. PS to Hon'ble Chief Minister of Meghalaya, Shillong.
11. P.S. to Secretary, NEC Secretariat, Shillong.
12. Planning Adviser, NEC Secretariat, Shillong.
13. Financial Adviser, NEC Secretariat, Shillong.
14. Director (E&M), NEC Secretariat, Shillong.
15. DIPR, NEC Secretariat, Shillong.
16. I/C NIC-NEC Secretariat, Shillong for publishing in the web site http://www.necouncil.gov.in.
17. S.O. (Finance), NEC Secretariat, Shillong.

(M. Kalita)
Executive Engineer (T&C)

O/C

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No. NESIDS-14012/1/2021-O/o US (NLCPR)
Government of India
Ministry of Development of North Eastern Region
****

East Block-10,
Level-4, R.K. Puram
New Delhi - 110066
Dated 22.10.2021

OFFICE MEMORANDUM

Subject: Construction including M&BT of Intermediate Lane on Rongjeng Mangsang Adokgre road from 0 km to 32 km and 39km to 43 km including 90 m bridge over river Ildek- for change in scope of work.

The undersigned is directed to refer to the subject mentioned above and to enclose a copy of Administrative and Financial Approval, minutes of SLEC held on 08.09.2021 & revised DPR for the project **Construction including M&BT of Intermediate Lane on Rongjeng Mangsang Adokgre road from 0 km to 32 km and 39km to 43 km including 90 m bridge over river Ildek** under NLCPR.

2. It is requested to kindly render your views/comments on the project proposal for change in scope of work to this Ministry at the earliest but not later than 26.10.2021.

(A. K. Pandey)
Under Secretary to the Govt. of India 22-10-2021
E-mail: akhilesh.pandey13@nic.in

Encl. As stated above.

To

i. Secretary, Ministry of Road Transport and Highways, Transport Bhawan, New Delhi (*secy-road@nic.in)*
ii. Chief Executive Officer (CEO), Niti Aayog, Sansad Marg, Sandad Marg Area, New Delhi (*ceo-niti@gov.in*).

Copy to:

i. Deputy Secretary (IFD), MDoNER for scrutiny/comments.
ii. Superintending Engineer, Technical Wing, MDoNER for scrutiny/comments.

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No.TW-14/1/2018-Tech Wing
Government of India
Ministry of Development of North Eastern Region

Janpath Bhawan, "B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 25.10.2021

OFFICE MEMORANDUM

Subject: Construction including M&BT Intermediate Lane on Rongjeng Mangsang Adokgre road from 0 km to 32 km and 39 km to 43 km including 90 m bridge over river Ildek- for change in scope of work.

Please refer to your Office Memorandum No NESIDS-14012/1/2021-O/o US (NLCPR) dated 22.10.2021 vide which Project Proposal has been sent to this office for comments. The comments of the Technical Wing are as follows:

In this regard, it is pointed out that the decision has already been taken in the SLEC Meeting held on 06.09.2021 under the Chairmanship of Chief Secretary, Govt. of Meghalya. Now, Govt. of Meghalya has submitted the revised DPR along with a proposal for change in scope to the M/o DoNER which is under scrutiny in Technical Wing for comparison to the original DPR but original DPR is not available in this office, you are requested to kindly send the copy of the original DPR so that revised DPR can be checked.

(G.S.Maheshwari)
Superintending Engineer (TW)

To

Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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Annexure - A H

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: A H **State: Nagaland**

Name of Project: Strengthening of health systems for the Management of Covid-19 pandemic with special reference to Combat the impending 3rd Wave of the Pandemic in Nagaland

Project Description/Summary (not exceeding 200 words): With apprehension of affecting children, many States are focusing on strengthening paediatric care and formulating children-specific protocol, besides ramping up vaccination, setting up more testing labs, setting up medical oxygen plants in hospitals, ramping up Covid beds, strengthening home monitoring mechanism, forming task forces with focus on third wave, door-to-door surveillance, augmenting health manpower etc.

Nagaland has received 27 PSA plants are now set up in all the District Hospitals and selected CHCs with support from both national and international agencies. Out of the total, 6 are functionalized and the remaining are in the advanced stages of being commissioned. Furthermore, ICUs have been strengthened through NESIDS and other agencies and even for establishing Paediatric ICU, the support has been extended through NHM.

Therefore, other requirements needed for management COVID-19 such as patient transport ambulance, Liquid oxygen plant, generator for CHCs, etc., are proposed here for support through NESIDS.

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 19.79 Crore
1.2	**Whether lying in backward areas**	Lying in entire state
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Social Infrastructure related to Primary/Secondary Sectors of Education
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	N/A	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project
1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	State Govt. has requested funds for Manpower and Operation.

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1.7	Broad Breakup of Major Components of the project Cost as per concept note		
S.No.	Items of Work	Cost proposed by State Govt. in concept paper (Rs. in crore)	
1	Strengthening of for PHC/ CHCs with Patient Transport Ambulance to strengthen Referral Transport System in rural areas	26	3.37
2	Strengthening of CHCs with Alternate Power Back-Up System	18	1.02
3	Procurement of Hearse Vans for District Hospitals	12	1.54
4	Proposal for Setting Up/Installation Liquid Oxygen Storage Unit with Cylinder Filling Facility for Nagaland Medical College, Kohima	1	2.86
5	Proposal for Strengthening Rapid Response Team in Nagaland	6	0.69
6	Proposal for procurement of Diagnostic Equipment for District Hospitals		5.52
7	Proposal for procurement of other Equipment for COVID management: High Flow Nasal Oxygenation (HFNO) machine	60	1.65
8	Next Generation Sequencing for Diagnostics & Monitoring of SARS-COV-2 and other Infectious Diseases emerging in Nagaland		3.32
	Grand Total		19.96
1.7A	Out of above, SG's Contribution in the Project Cost, if any	For the above stated items/quantities - NIL	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	For the above stated items/quantities - NIL	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.8A	Original	10.08.2021	vide letter No. PLN/NESIDS-PRIOR/2021-22
1.8B	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	Normative allocation of SG and related details	• Normative allocation 2021-22:- Rs. 122.16 crore • Projects already Selected – Nil	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	Ministry of Education	22.10.2021	Yet to receive
	Ministry of Electronics and Information Technology	22.10.2022	Yet to receive

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	Niti Aayog	22.10.2023	Yet to receive
	Technical Wing, MDoNER	22.10.2024	Yet to receive
	IFD, MDoNER	22.10.2025	Yet to receive
5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	copy enclosed.
	(b) Abstract of cost/Broad break up of costs	Yes	
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief: Comments of NITI Aayog and TW, DoNER recieved:**		
7	**Important observations/comments of Prog. Division**		
	The project pertains to social sector related to health. In view of the ongoing pandemic of CoVID-19 program division recommends the proposal for consideration.		

(Dated Signature & Name of
Under Secretary concerned)

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DFA/115909 (Attachment : Annexure L_1636135450026_010.pdf)

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PROPOSAL FOR

STRENGTHENING OF HEALTH SYSTEMS

FOR THE

MANAGEMENT OF COVID-19 PANDEMIC

with special reference to
Combat the impending 3rd Wave of the Pandemic
in Nagaland

(Revised Proposal)
October 2021

UNDER NESIDS 2021-22

(Total project Cost: Rs.1996.19 Lakh)

Submitted By:
Department of Health & Family Welfare,
Government of Nagaland.

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Background:

In witnessing large number of cases and an increase in number of deaths during the second wave, many are predicting that the third Covid-19 wave will be even more lethal in the country. However, no lessons would be learnt if one were to loosen one's guard against the virus as it has defied predictions multiple times in the past. With more mutations getting reported in Coronavirus, experts predicts a likelihood of a third wave which will be even more dangerous affecting more children and that we need to prepare ourselves for it more than ever. The Supreme Court of India recently directed the Governments to prepare for a third wave of COVID-19.

With apprehension of affecting children, many States are focusing on strengthening paediatric care and formulating children-specific protocol, besides ramping up vaccination, setting up more testing labs, setting up medical oxygen plants in hospitals, ramping up Covid beds, strengthening home monitoring mechanism, forming task forces with focus on third wave, door-to-door surveillance, augmenting health manpower etc.

Nagaland has received 27 PSA plants are now set up in all the District Hospitals and selected CHCs with support from both national and international agencies. Out of the total, 6 are functionalized and the remaining are in the advanced stages of being commissioned. Furthermore, ICUs have been strengthened through NESIDS and other agencies and even for establishing Paediatric ICU, the support has been extended through NHM.

Therefore, other requirements needed for management COVID-19 such as patient transport ambulance, Liquid oxygen plant, generator for CHCs, etc., are proposed here for support through NESIDS. Detail proposal and justification for the same is given below.

Status of Preparedness for Management of COVID-19 Pandemic:

1. No of Dedicated COVID Hospitals (Public only)	11
2. Total No of Covid Beds/ Oxygen Supported Bed/ ICU Beds/ ICU with Ventilators	308/704/ 97/ 90
3. No of Dedicated COVID Care Centres	11
4. Total Bed capacity of CCC	1461
5. Total PSA Plant Functional/ Under Construction	6 functional / 21 under construction.
6. Total No of Type D/ Type B Oxygen Cylinder/ Oxygen Concentrators (5, 8 & 10 LPM)	3602 Type B cylinders/ 2039 Type D cylinders/ 1991 Oxygen Concentrators
7. COVID-19 Testing Facility	1 BSL-3 Lab; 2 BSL-2 Labs, 32 Truenat Machines
8. COVID-19 Testing Capacity (BSL & Truenat)	2200 test per day

Status of COVID-19 Case Load in the State (30th September, 2021; 4:00 PM):

1. Number of Persons Screened at Entry Points	648304
2. Total No of Test Conducted	372495
3. Total No of Positive Cases	31244
4. Total No of Recovered	29227
5. Total No of COVID-19 Deaths	650
6. Total No of Migrated cases	994

Status of COVID-19 Vaccination in the State (30th September ; 4:00 PM):

1. Total Target	1250645
2. 1st Dose Vaccination	687750 (55.0 %)
3. 2nd Dose Vaccination	362373 (29.0%)

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Summary of Proposal:

Name of the Proposed Activity	Cost (Rs. in Lakh)
1. Strengthening of for PHC/ CHCs with Patient Transport Ambulance to strengthen Referral Transport System in rural areas (26 nos.)	337.38
2. Strengthening of CHCs with Alternate Power Back-Up System (18 nos.)	102.00
3. Procurement of Hearse Vans for District Hospitals (12 nos.)	153.83
4. Proposal for Setting Up/Installation Liquid Oxygen Storage Unit with Cylinder Filling Facility for Nagaland Medical College, Kohima (1 nos.)	285.73
5. Proposal for procurement of Diagnostic Equipment for District Hospitals	551.65
6. Proposal for Strengthening Rapid Response Team in Nagaland (6 nos.)	69.00
7. Proposal for procurement of other Equipment for COVID management: High Flow Nasal Oxygenation (HFNO) machine (60 nos.)	165.00
8. Next Generation Sequencing for Diagnostics & Monitoring of SARS-COV-2 and other Infectious Diseases emerging in Nagaland	331.60
G/ Total (1+2+3+4+5+6+7+8)	1996.19
Rupees Nineteen Crore Ninety Six Lakh Nineteen Thousand	

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Proposed Activities 1 STRENGTHENING OF PHCs / CHCs WITH PATIENT TRANSPORT AMBULANCE

In various review meetings, the District Task Force and District Health Authorities, have flagged the requirement for Patient Transport Ambulance with the objective to bridge the gap arising out of non-availability of transport vehicles to cater to the patients in the remote places, should there be increased number of COVID-19 positive cases, and also to be in a ready state to combat the 3rd wave of the pandemic.

Since the implementation of NHM in the State, a total of 80 ambulances (Patient Transport Ambulance) have been supported with CAPEX as well as OPEX cost. However, the support for CAPEX has been withdrawn and only OPEX is now supported under NHM.

Out of the total patient transport ambulances available, 65 nos. are beyond 8 years. Due to the bad road condition and the terrain, these ambulances break down frequently and have become risky to transport patients. Out of these 65 old ambulances, 26 ambulances which are mostly 10 years and above are being proposed for replacement with new patient transport ambulances.

Replacement of 9 nos. old ambulances (besides 26 nos proposed herein) has been already proposed for purchase through re-allocation of fund approved Vide Sanction Letter No. NESIDS-16012(11)/2/2020. O/O DIR (NLCPR) DATED 02.07.2020, against the project "STRENGTHENING OF HEALTH INFRASTRUCTURE FOR COMPREHENSIVE RESPONSE TO POSSIBLE OUTBREAK OF COVID-19 IN NAGALAND" and approval is still awaited. The Details of the ambulance requiring replacement in the identified PHCs/CHCs is given in the table below.

Details of the Ambulance Status in PHCs /CHCs requiring Replacement.

Sl.	District	Name of Health Unit	Type of Vehicle	Ambulance (Y/N)	Age of the ambulance (in years)	Remarks on requirement / replacement (Y/N)
1	Dimapur	PHC Akito	M/Gypsy	Yes	13	Yes
2	Kohima	CHC Viswema	M/Gypsy	Yes	12	Yes
3		CHC Kezocha	M/Gypsy	Yes	11	Yes
4		UPHC Seikhazou	M/Gypsy	Yes	13	Yes
5	Kiphire	PHC Kiusam	M/Gypsy	Yes	13	Yes
6	Longleng	PHC Yongyah	M/Gypsy	Yes	11	Yes
7	Mokokchung	PHC Longjang	M/Gypsy	Yes	13	Yes
8		PHC Longchem	M/Gypsy	Yes	13	Yes
9		PHC Alongkima	M/Gypsy	Yes	13	Yes
10	Mon	CHC Tizit	M/Gypsy	Yes	11	Yes

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11		CHC Wakching	M/Gypsy	Yes	11	Yes
12		PHC Phomching	M/Gypsy	Yes	11	Yes
13	Noklak	PHC Thonoknyu	M/Gypsy	Yes	11	Yes
14	Phek	PHC Akhegow	M/Gypsy	Yes	13	Yes
15		PHC Ruzazho	M/Gypsy	Yes	13	Yes
16		PHC Laluri	M/Gypsy	Yes	>15	Yes
17	Peren	CHC Tening	M/Gypsy	Yes	11	Yes
18		PHC Athibung	M/Gypsy	Yes	11	Yes
19	Tuensang	PHC Chessore	M/Gypsy	Yes	13	Yes
20		UPHC Tuensang	M/Gypsy	Yes	13	Yes
21		PHC Noksen	M/Gypsy	Yes	11	Yes
22	Wokha	PHC Englan	M/Gypsy	Yes	11	Yes
23		PHC Nyiro	M/Gypsy	Yes	11	Yes
24	Zunheboto	CHC Atoizu	M/Gypsy	Yes	9	Yes
25		CHC Satakha	M/Gypsy	Yes	8	Yes
26		PHC VK Town	M/Gypsy	Yes	13	Yes

*Drivers are available.

Budget Proposed:

Sl	Particular	Qty	Unit price	Total (Rs. in Lakh)
1	**Patient Transport Ambulance** (FORCE Trax cruiser ambulance BS 6P, PS, AC, ABS, TYPE B) *Cost is inclusive of GST*	26	12,97,570.00	337.38
Rupees Three Crore Thirty Seven Lakh Thirty Eight Thousand				

Proposed Activities 2 : STRENGTHENING OF CHCs WITH ALTERNATE POWER BACK-UP SYSTEM.

The power outage in State is a perennial problem due to insufficient power generation, damage to transmission cables caused by natural disaster such as, landslides and strong wind, etc. COVID care requires uninterrupted power supply to run various life support equipment such as oxygen concentrator, suction machine, ventilator, etc. 12 CHCs which are better performing with higher case-load shall be provided with 30 kVA Genset while 6 other CHCs which have lesser case load shall be provided with smaller capacity Genset i.e.15kVA, as alternate source of power back-up to the identified CHCs, which will be utilized for aiding COVID patient care services besides continuing to provide essential health services. Other 11 CHCs are newly upgraded CHCs and due to limited budgetary resources, Genset shall be proposed only after the civil works are completed. The detail proposal for Genset is given below:

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Detail gap analysis for genset requirement at CHC:

Sl	District	Name of CHC	Genset (Y/N)	Functional status (Y/N)	Requirement / Replacement	
					15kVA	30 kVA
1	Dimapur	Dhansiripar	Yes (Small)		0	1
2		Medziphema	Yes	No	0	1
3		Nuiland*	No		0	0
4	Kohima	Tseminyu	Yes		0	0
5		Viswema	Yes	No	1	0
6		Kezocha*	No		0	0
7		Chiephobozou	No		1	0
8	Phek	Chozuba	No		0	1
9		Meluri	No		0	1
10		Chizami*	No		0	0
11		Pfutsero	No		0	1
12	Mokokchung	Changtongya	Yes	No	0	1
13		Mangkolemba	Yes	Yes	0	0
14		Tuli	Yes	No	0	1
15		Alichen*	No		0	0
16	Mon	Tobu	No		0	1
17		Tizit*	No		0	0
18		Wakching*	No		1	0
19		Aboi	No		0	1
20	Longleng	Yachem*	No		0	0
21		Tamlu*	No		0	0
22	Peren	Tening*	No		0	0
23		Jalukie	Yes	Yes	0	0
24	Kiphire	Seyochung*	No		0	0
25		Pungro	Yes	No	0	1
26	Tuensang	Longkhim	No		1	0
27		Shamator	No		1	0
28	Noklak	Noklak	No		0	1
29	Wokha	Bhandhari	Yes(small)		1	0
30		Sanis	Yes	Yes	0	0
31	Zunheboto	Atoizu*	No		0	0
32		Pughoboto	Yes	Yes	0	0
33		Satakha*	No		0	0
34		Aghunato	No		0	1
			Grand Total		6	12

**Newly upgraded CHCs - Genset is not proposed.*

Budget proposal Strengthening of CHCs with Power Back up:

Sl	Particular	Qty	Unit price	Total (Rs. in Lakh)
2.1	Genset 15 KVA 3 phase with Auto changeover switch and cabling; inclusive of installation and housing works at site.	6	5,00,000.00	30.00
2.2	Genset 30 KVA 3 phase with Auto changeover switch and cabling; inclusive of installation and housing works at site	12	6,00,000.00	72.00
	G/ Total			**102.00**
	Rupees One Crore Two Lakh			

Proposed Activities: 3 | PROCUREMENT OF HEARSE VAN

Nagaland, like many other states, has been experiencing high COVID fatality. The mortality rate being among the highest in the Country i.e. 2.08% (650 deaths out of 31244 positive reported cases). In the State there is no dedicated hearse operator and the few scattered hearse (private) that are available are unwilling to go beyond its jurisdiction. Furthermore, there is hesitancy in the transportation of dead bodies even by commercial /private vehicles, and for which the relatives have to struggle even to carry the mortal remains to their native place, for want of transportation.

Therefore, the proposed purchase of hearse van is the only alternative option for safe transportation of dead bodies to the crematorium or graveyard which is vital for the safe and dignified disposal of mortalities, particularly COVID-19 fatalities.

Particular	Quantity	Unit price (Rs)	Total (In Lakh)
Hearse van (Force hearse van on force trax cruiser ambulance AIS 125 type B non AC BS 6P, PS, ABS, partition & stickering). *Inclusive of 28% GST*	12	12,81,910	153.83
		G/Total	**153.83**
Rupees One Crore Fifty Three Lakh Eighty Three Thousand			

Proposed Activities: 4 | PROPOSAL FOR LIQUID OXYGEN STORAGE UNIT WITH CYLINDER FILLING FACILITY

The state of Nagaland requires a resilient production & supply of oxygen in order to meet the acute need of the hospitals

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especially during this Covid-19 pandemic. The state has only one Oxygen refilling BMA Liquid Air Plant in Dimapur with which the Department has an MoU, is unable to meet the demands due to mechanical breakdown and various other issues hampering the production. Thus Oxygen is being procured from various firms in Assam where the availability is restricted and thus replenishing the empty cylinders is a major hurdle.

The state has 3602 Type B cylinders and 2039 Type D cylinders as well as 1991 Oxygen Concentrators at present. The oxygen refilling Plants in Assam from where the refilling for the state is presently done to meet the increase requirement arising out of the surge in Covid-19 cases are i) Premier Cryogenic, Samaguri, Nagaon ii) Assam Air Services, Sivasagar iii) Himalaya Air Products, Dibrugarh iv) Meghalaya Oxygen Pvt. Ltd, Guwahati.

Therefore there is an urgent need to have at least one **Liquid Medical Oxygen (LMO) Storage Tank with Cylinder Filling Facility** to meet the requirement for the entire state of Nagaland at New Medical College site, Kohima. An offer has been received from **Premier Cryogenic Limited, Guwahati for Supply & Installation of LMO Storage Tank & Supply of Medical Grade Liquid Oxygen with Cylinder Filling Facility.** It is to state that Premier Cryogenic Guwahati is the only manufacturer of Liquid Medical Oxygen in Northeast India and has successfully installed LMO storage and Gasification facility in Medical Colleges like NEIGHRIMS Shillong, Gauhati Medical College, RIMS Imphal, Jorhat Medical College, Silchar Medical College etc.

The firm has manufacturing capacity at Samaguri, Nagaon is of 1088 cubic metre medical oxygen per hour i.e. 26,112 cubic metre per day. This is equivalent to 3,730 D type oxygen cylinders per day. It also has 2 additional plants in Saukuchi, Guwahati with combined Liquid oxygen capacity of 1,000 cubic metres per hour. The firm is equipped with Tankers for delivering the Liquid oxygen to the storage site. The scope of work where the Premier Cryogenic assures complete responsibility are:-

1. Installation of Storage tank of 20KL with storage capacity of 15973 cum (2282 D-Type cylinders) Oxygen gas
2. Liquid Oxygen Pump with starter 5.5 KW
3. Cylinder filling manifold: 12 nos x 2 sides
4. Connection of pipeline upto cylinder manifold
5. Gasification of LMO to oxygen gas at maximum rate of 300 cum/hour
6. Refilling the storage tank by transport tanker as and when requirement is given
7. Assist the department in obtaining PESO license for storing LMO
8. Assist the department in preparation of layout drawing and guidance in construction of shed & other civil foundation work.

As per the offer letter from the Premier Cryogenic Limited, Guwahati the requirements with the proposed rates for setting up of one Liquid oxygen storage Tank with Cylinder Filling Facility and the cost for the Civil works, Approach Road, Security fencing etc. as per the Medical Engineering Division, DHFW are given below:

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Abstract of Cost

Name of Work: Installation of Cryogenic Medical Oxygen Tank With Vaporizer at Dimapur

Sl. No.	Name of Work	Amount
1	Construction Cyrogenic Oxygen Shed at Dimapur	₹ 10,274,000.00
2	Construction CC Pavement at Bulk Storage area	₹ 329,000.00
3	Construction of Security Fencing around Bulk Storage area	₹ 420,692.69
4	Construction of Brick Wall Fencing around the Plant	₹ 623,019.80
5	Construction Approach Road for Installation of Cryogenic Medical Oxygen Tank With Vaporizer at Dimapur	₹ 1,006,000.00
	Total Amount	₹ 12,954,712.49
	Total Amount Say	₹ 12,954,000.00

In Words (Rupees one crore twenty eight Lakhs fifty four thousand) Only

Junior Engineer
Medical Engineering Divisor
Kohima,Nagaland

Assistant Engineer
Medical Engineering Divisor
Kohima,Nagaland

Executive Engineer
Medical Engineering Division
Kohima,Nagaland

Budget Proposed:

Sl. No	Requirements	Rates (Rs)
1	Supply and installation of 20 KL storage Tank	69,00,000/-
2	Cylinder Filling Facility	28,00,000/-
3	Laying of Pipelines approx. 50 metres @ Rs. 4500.00/metre	2,25,000/-
4	Manifold connection including all gadgets	1,00,000
5	Cost of Liquid Medical oxygen with transportation charge @ 5,38,880 per trip for 5 trips	26,94,400/-
6	Civil works including Security fencing, approach road etc	1,28,54,000/-
7	Fire safety, Spares & consumables (Lump Sum)	30,00,000/-
	TOTAL	2,85,73,400/-
	TOTAL (Round off)	2,85,73,000/-
	Rupees Two Crore Eighty Five Lakh Seventy Three Thousand	

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PROPOSAL FOR PROCUREMENT OF DIAGNOSTIC EQUIPMENT FOR DISTRICT HOSPITALS

The infrastructure and human resources available in the State are limited and with the unprecedented pandemic which caught the whole world including the advanced countries unprepared, the State's health systems faced untold challenges. As of now, both infrastructure and manpower have been partially strengthened during the pandemic period with support from the State Government and also various National and International Agencies whereby, ventilators, oxygen concentrators, cardiac monitors. CPAP, Bi-PAP, Type-D cylinders, oximeter, thermal scanners, other consumables, etc. were provided to augment the available infrastructure. However, there still remain plenty to be addressed in terms of infrastructure strengthening, particularly the diagnostic equipment in the District Hospitals.

Due to resource constraints many investigations are still done manually with longer waiting period before giving the reports. The hospital laboratories are therefore overwhelmed due to lack of much needed automated machines. Specialized manpower such as Pathologist, Microbiologist and Biochemist though available are limited and therefore, automated machines are the one solution to bridge the gap the manpower gap and the need for the investigations. Providing these automated equipments will help in reducing the turnaround time for reporting and enable the doctors to initiate timely treatment for better outcome. Naga Hospital Authority Kohima (NHAK) has Biochemistry, Microbiology and Pathology Departments and it can train the manpower of the other districts where the concerned specialty Department is unavailable. Furthermore, provision of automated blood culture & sensitivity analyzer will help in rational use of antibiotics particularly in case of highly infectious diseases. Many of the districts are far-flung with poor socio-economic status and for which travelling to Kohima and Dimapur for want of services incurs huge economic burden on the patients and aggravate medical related poverty. Thus, providing these automated analyzers will go a long way in helping the district to get better diagnostic facilities at the doorstep and thereby reducing out of pocket expenditure. Specialized/Trained manpower shall be made available to run the machines.

Detail proposal along with budgetary requirement:

Sl	Item	Quantity Required												Total Qty Required	Unit Cost (Rs)	Total Cost (Rs)
		DH Dimapur	DH Kiphire	NHAK	DH Longleng	DH Mokokchung	DH Noklak (Designate)	DH Mon	DH Peren	DH Phek	DH Tuensang	DH Wokha	DH Zunheboto			
1	Automated ABG analyzer	1	1	0	1	1	1	1	1	1	0	1	1	10	767000	7670000
2	Automated Blood Cell Counter (3 part)	0	0	0	1	0	1	1	1	1	1	1	0	7	413000	2891000
3	Fully Automated Hematology analyzer (5 part)	1	1	1	0	1	0	0	0	0	0	0	0	4	767000	3068000
4	Automated Biochemistry Analyzer	1	0	1	0	1	1	1	0	1	1	0	0	7	826000	5782000
5	Semi-automated Biochemistry analyzer	0	1	0	1	0	1	0	1	0	0	1	1	6	236000	1416000

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6	Fully automated immunoassay analyzer	1	0	1	0	1	0	1	0	0	0	0	0	4	1003000	4012000
7	Thyroid Hormone analyzer	0	1	0	1	0	1	0	1	1	0	0	1	6	295000	1770000
8	Automated Cartridge based specific protein analyzer (for parameters like D-Dimer, S.Ferritn, C-Reactive Protein)	0	1	0	1	0	1	0	1	1	1	1	1	8	177000	1416000
9	Automated Blood Culture & Antimicrobial Susceptibility Test device (60-90 wells)	1	0	1	0	0	0	0	0	0	0	0	0	2	1770000	3540000
10	Automated Blood culture & Antimicrobial Susceptibility Test device (15-30 wells)	0	1	0	1	1	1	1	1	1	1	1	1	10	1416000	14160000
11	Semi Automated Coagulation Analyzer	1	1	1	1	1	1	1	1	1	1	0	1	11	649000	7139000
12	Automated Electrolyte Analyzer	1	0	1	0	1	0	0	0	0	0	0	0	3	295000	885000
13	Semi automated Electrolyte analyzer	0	1	0	1	0	1	1	1	1	0	1	1	8	177000	1416000
															Grand Total	5,51,65,000
	Rupees Five Crore Fifty One Lakh Sixty Five Thousand															

Proposal for Activities: PROPOSAL FOR STRENGTHENING RAPID RESPONSE TEAMS (RRT)

The Covid-19 Pandemic has laid open the shortage and gaps in the Rapid Response Teams (RRT) in the State of Nagaland. In order for interventions in an event of Early Warning Signals (EWS)/Outbreaks, the respective RRTs will have to investigate the event and take measures to contain the outbreak, suggest to authorities concerned for necessary action.

Presently, there are 12 District RRTs and 1(One) State RRT constituted in the State.
The RRTs consist of the following:-

1. District Surveillance Officer.
2. Physician
3. Paediatrician
4. Epidemiologist
5. Microbiologist/Pathologist
6. Senior Public Health Nurse
7. Lab. Technician
8. Any other members can be co-opted as per situation and need.

Especially, during Covid-19 and with the heightened and real spread of the disease from the Urban to Peri-Urban and Rural areas, the role and responsibilities of the Respective RRTs are all the more important and vital in investigating Clusters/cases if ILI/SARI, Early Warning Signals and Outbreaks.

The RRTs will be triggered in any of the clustering of cases or unusual events.

A. Roles and Responsibilities

1) Investigation and confirmation of Outbreak.

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2) Assess the impact on health of the area, community and society.
3) Assess the local response capacity and take stock of immediate needs.
4) Assist local Health staff in controlling the outbreak.
5) Provide Treatment Management guidance at all levels.
6) Follow up of control measures undertaken.
7) Advise the District authorities on remedial measures as per the findings etc.

B. Logistics Required

1) Vehicle for the RRT.
2) Medicine kits including resuscitation kits to treat emergency cases.
3) Home isolation kits in case of COVID-19.
4) Diagnostic Kits, PPE, Sample collection kits, etc.
5) Basic Medical equipments like, pulse oximeter, BP Apparatus, Stethoscope, sanitizers.
6) Mobility Funds.

C. In addition to the services required for Covid-19, the emerging need to strengthen Sentinel surveillance for SARS COV-2 genomic sequencing in the State as per **Letter DO No;Z-21020/135/2021-PH Dated the 13th September, 2021,** the updated guidelines require that;

- A Rapid Response Team (RRT) will be deployed to the site as soon as any mutation is detected, where it will investigate the mutant for sample collection, to be monitored by the RRT.
- Contact tracing of case in which the mutation is detected.
- Epidemiological aspects of the mutant detected, etc.
- Take measures accordingly after assessment by the RRT.

In the light of the above. 1(One) vehicle each will be ideal for each District RRTs and 1(One) for the State RRT. However, taking into consideration the fund constraints, it is proposed to have 6(Six) RRTs in the State equipped with mobility support and other logistics.

The Proposed Mobility Support in terms of Vehicle will be placed in the following districts: Dimapur, State RRT, Mon, Tuensang, Phek & Zunheboto.

Due to the hostile geographical settings in the State especially in the Rural areas, 4X4 Bolero is proposed.

The availability Vehicle will:

1. Strengthen Surveillance in the State.
2. Response to Early investigation and intervention will be strengthened.
3. Strengthen the Sentinel Surveillance for SARS CoV-2 genomic sequencing in the State.
4. There will be greater mobility for responding to events of Public Health concerns.
5. Addressing local issues with more expertise and providing services to their doorsteps.
6. Enable the District Authorities to have a better understanding of steps to be taken.
7. Enable the District Health Teams to be more proactive.

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Budget Proposed:

Sl.	Particulars	Total	Total amount (Rs)
	Cost per Bolero (4X4)	11,50,000 X 6	69,00,0000
		Grand Total	69,00,000
Rupees Sixty Nine Lakh			

Proposed Activities 7	**PROPOSAL FOR PROCUREMENT OF HIGH FLOW NASAL OXYGENATION MACHINE FOR COVID MANAGEMENT**

One of the main strategies in the management of moderate to severe cases of COVID-19 infection is to provide oxygen support to the patient. In this connection, various studies have shown that High Flow Nasal oxygenation can provide better oxygen delivery than many other available means. It is a less invasive alternative to ventilator care. Patient receiving oxygen via HFNO can be even managed as indoor ward patient and therefore have the potential to decrease the load for ICU beds. It also lowers the rate of re-intubation in patients after extubation from the mechanical ventilator.

Since the pandemic is already infiltrating the rural and peri-urban areas, the availability of HFNO machine will have a positive impact in the management of COVID cases even in these remote areas where ICU facilities are not available. The State **therefore proposes to procure 60 nos. of HFNO machines (average of 5 per district).** Budget requirement is mentioned in the table below:

Sl	Item	Qty	Unit Cost (Rs. in Lakh)	Total Amount (Rs. in Lakh)
1	High Flow Nasal Oxygenation Machine	60	2.75	165.00
			Grant Total	**165.00**
Rupees One Crore Sixty Five Lakh				

Proposed Activities 8	**NEXT-GENERATION SEQUENCING FOR DIAGNOSIS AND MONITORING OF SARS-COV-2 AND OTHER EMERGING INFECTIOUS DISEASES IN NAGALAND**

Background:

SARS-CoV-2 is a novel betacoronavirus that was identified as the etiological agent of a cluster of pneumonia cases in Wuhan City, Hubei Province, China. The first SARS-CoV-2 genome

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was published on 24 January 2020. As of 1st September 2021, 3,078,652 SARS-CoV-2 genome sequences had been uploaded to Global initiative to Share All Influenza data (GISAID).

Next Generation Sequencing (NGS) is an emergent technology that has the power to sequence billions of nucleic acid fragments simultaneously. The power of high throughput NGS technology presents the scientific community with many promising applications, and the current pandemic is providing an enormous sense of urgency to push some of these applications into widespread usage. Sequencing is used for the following areas

1. Surveillance

- Identifying disease origins, both zoonotic origins and of outbreaks within human populations Outbreak management; when used in conjunction with more traditional epidemiology techniques such as contact tracing, the higher resolution information provided by sequencing can help to unravel complex transmission events, disprove suspected transmission events, and help to identify disease 'super-spreaders'.
- Transmission dynamics; tracking person-person or person-environmental transmission, in which situations transmission is occurring (community/hospital/environmental) and local/national/ international transmission routes.
- Examining viral population structure, to monitor viral evolution within or between people, geographical regions, or through time
- Tracking disease prevalence (the frequency of infections in a population at a particular point in time).

2. Sequencing can determine how quickly the infectious agent is adapting as it spreads.

- It appears that SARS-CoV-2 achieves two mutations per month as it spreads. This information allows public health officials to identify how likely the virus is to avoid
- Detection from established PCR assays and become resistant to therapies.

3. Diagnosis

- One application opportunity for NGS is in the field of clinical diagnosis of infectious disease. Using NGS technology for the diagnosis of infectious diseases offers an unbiased approach detecting pathogens that does not rely on culturing or the need for clinical

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hypotheses. Pathogen identification, particularly early in the outbreak when less was known about their genome.

- Genotyping to identify regions of the genome for use in diagnostic testing, and also to monitor genetic changes in these regions to ensure that diagnostic tests remain effective.
- While standard testing procedures require clinicians to identify possible explanations for a patient's symptoms and employ tests aimed at those specific pathogens, NGS testing can reveal the presence of mixed infections/co-infection, particularly those infections with similar clinical presentations, including all bacteria, viruses, fungi, and parasites.

4. Research and development

- Development of novel diagnostics, therapeutics, and vaccines, including detecting possible
- Drug resistance, understanding virus susceptibility to treatment, evaluating vaccine effectiveness
- Characterization of virulence factors and resistance marker.
- Improving understanding of disease biology, including mutation phasing, viral mutation rates and rare variant detection
- Understanding the link between host genomics and disease severity and susceptibility.

5. Sequencing identifies targets to therapies.

- Knowing the infectious agent genome is essential to understanding therapeutic efficacy from small molecule therapeutics targeting specific viral proteins to vaccines directed against viral antigens.

Expected outcome of proposed study

This study can give insights to understanding;

(1) To determine how quickly the virus is adapting as it spreads.

(2) To track the transmission route of the virus.

(3) To accurately identify co-infection of diseases.

(4) Direct detection of unknown disease-associated pathogens in clinical specimens. NGS can provide all relevant information about a pathogen in a single assay, including species identification, strain typing, virulence determination, and antimicrobial resistance. NGS can also be used to identify uncultivable pathogens that might be missed in routine cultures and diagnostic sensitivity assays.

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Methodology

Samples collected from the 12 districts with high viral load (Ct<25) will be transported to the State Referral BSL-3 Kohima. The RNA will then be extracted and then evaluated using qPCR. Then the RNA will be quantified using qubit fluorometer and stored in -80 until used. Sequencing will be carried out in the following steps:

- Nucleic acid fragmentation: RNA sample will be fragmented into small pieces so that they can be sequenced in a massively parallel fashion.
- Adapter ligation: Adapters are oligonucleotides with sequences that are complementary to the priming oligos on the sequencing chips. The ends of the nucleic acid fragments will be ligated with adapters to enable sequencing.
- Library quantitation: After preparation, a sequencing library represents a pool or collection of DNA fragments with adapters attached to their ends. Prepared libraries will be quantified using qubit so that an optimal concentration of molecules to be sequenced is loaded onto the sequencers.

The library will be loaded into the flow cell for subsequent clonal amplification and the sequencing reaction in the NGS platform

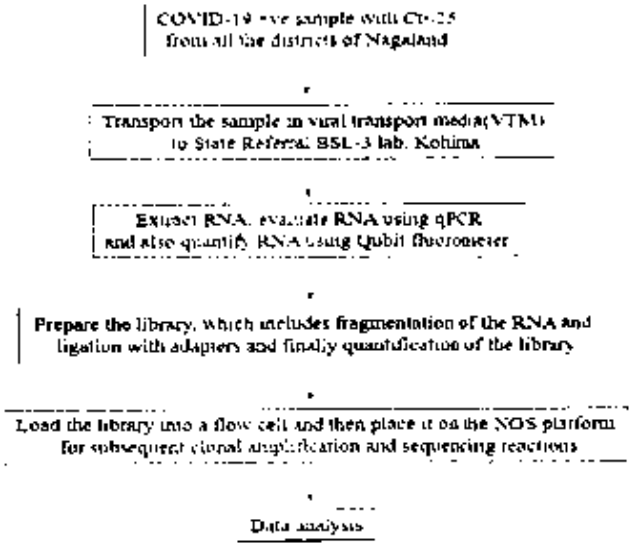


Figure. NGS Workflow

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BUDGET DETAILS:

a) Non-recurring Cost:

Sl. No	Description	Qty	Unit Price (Approx.)	Line Item Total Price	GST	Net Amount
1	Miseq System	1	1,52,00,000	1,52,00,000	-	1,52,00,000
2	Refrigerated Centrifuge with Swing out plate rotor	1	14,50,000	14,50,000	72,500	15,22,500
3	Magnetic Stand 96 wells (Dynamag 96)	1	69,800	69,800	3,490	73,290
4	Dehumidifier	2	1,10,000	2,20,000	11,000	2,31,000
5	Vibration free table for Sequencer	2	85,000	1,70,000	8,500	1,78,500
6	A suitable Server with configuration (No. of Cores 24, RAM 48 Gb, High Throughput Storage Requirement (for 50 runs data storage and analysis) 10 TB Storage, Operating System, Speed 2.0 GHz or higher, Monitor 20 inch LED, Keyboard Wireless Yes, Mouse Wireless Yes, Rack (16/24 U)	1	25,00,000	25,00,000	1,25,000	26,25,000
7	Workstation Computer: 8 core Processor 16 GB RAM, 2 TB Storage	1	2,10,000	2,10,000	10,500	2,20,500
8	10 KVA branded UPS with 1 hr backup	1	5,00,000	5,00,000	25,000	5,25,000
9	Qubit Fluorometer	1	4,50,000	4,50,000	22,500	4,72,500
10	Vortexer	1	50,000	50,000	2,500	52,500
11	Thermomixer	1	4,00,000	4,00,000	20,000	4,20,000
12	Refrigerated Centrifuge for 1.5/2ml ml tubes upto 10,000g or higher	1	5,50,000	5,50,000	27,500	5,77,500
13	Pipette set with stand Manual single channel (0.1-2.5ul, 0.5-10ul, 2-20ul, 10-100ul, 20-200ul, 100 to 1000 ul)	1	1,55,000	1,55,000	7,750	1,62,750
14	Multichannel pipette with suitable stand Manual 8-ch, 1-10 µL1 Qty Manual 8-ch, 10-100 µL 1 Qty Manual 8-ch, 30-300 µL 1 Qty	1	3,80,000	3,80,000	19,000	3,99,000
					Total	**2,26,60,040**

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b) **Recurring cost:**

Reagents for sequencing	Rate per unit (Rs)	Total Cost (Rs)
1,500 samples	7000	1,05,00,000

Budget Summary (a + b):

Non-recurring (Rs)	Recurring (Rs) (one time grant)	Total Budget (Rs)
2,26,60,040	1,05,00,000	3,31,60,040 3,31,60,000 (round off)
(Rupees Three Crore Thirty One Lakh Sixty Thousand only).		

20/10/21

(DR. NEIKHRIELIE KHIMIAO)
Principal Director
Directorate of Health & Family Welfare
Nagaland: Kohima.

****

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Annexure - AG

31st meeting of IMC/NESIDS Committee scheduled on 29.10.2021

I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: AG **State: Nagaland**

Name of Project: Implementation of Educational Infrastructure related to IT projects in 190 schools across Nagaland

Project Description/Summary (not exceeding 200 words): EdCIL proposes to set up an entire infrastructure framework for Virtual Classrooms and will operate the platform. The proposed platform utilizes two-way satellite connectivity, so as to overcome the problem of connectivity absence, non-functional connections, or irregular connections in the region. For both LIVE session transmissions from the central state studio and for interactions originating from the classrooms, the platform uses satellite connectivity.

The project will create a real-time digital learning ecosystem in Nagaland's Government Schools with LIVE and interactive expert-led teaching powered by localized digital content, individualized student performance analytics, and real-time geo-mapped monitoring of the entire network.

Main components of the project:

a. Central Broadcasting Studio for Remote Teaching
b. Analytics-powered Interactive Virtual Classroom Setup
c. Interactive Multimedia Content
d. Student Analytics
e. Application Software

	Stage 1: Retention/Selection of the Project	
1	**General Information**	
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 19.79 Crore
1.2	**Whether lying in backward areas**	Lying in entire state
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Social Infrastructure related to Primary/Secondary Sectors of Education
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words):	
	N/A	
1.5	**Whether independent /new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	New project

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1.6	If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.(e.g.running of a Hostal building), has the SG agreed to take care of these activities	State Govt. has requested funds for Manpower and Operation.	
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**		
S.No.	**Items of Work**	**Cost proposed by State Govt. in concept paper (Rs. In crore)**	
1	Studio	1	0.52
2	Virtual Classrooms	190	11.36
3	Centralised Application Software	1	4.07
4	Digital Multimedia Content	190	2.23
5	Capacity Building of Teachers	1	0.1
	Total		18.3
6	Connectivity cost per annum	1	0.65
7	Manpower Cost per annum	1	0.84
	Grant Total		1.49
1.7A	Out of above, SG's Contribution in the Project Cost, if any	For the above stated items/quantities - NIL	
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	For the above stated items/quantities - NIL	
1.8	Date of receipt of proposal/concept note from State Government (SG)		
1.8A	Original	10.08.2021	vide letter No. PLN/NESIDS-PRIOR/2021-22
1.8B	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	State Govt shall be asked to submit Non Duplication Certificate before sanction as per extant guidelines.	
3	Normative allocation of SG and related details	• Normative allocation 2021-22:- Rs. 122.16 crore • Projects already Selected – Nil	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
	Ministry of Education	22.10.2021	Yet to receive
	Ministry of Electronics and Information Technology	22.10.2021	Yet to receive
	Niti Aayog	22.10.2021	Yet to receive
	Technical Wing, MDoNER	22.10.2021	Yet to receive
	IFD, MDoNER	22.10.2021	Yet to receive
5	Whether proposal has been accompanied with the following documents		
	(a) Concept Note	Yes	copy enclosed.

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	(b) Abstract of cost/Broad break up of costs	Yes	
	(c) Approval of CS	No	Under Priority List 2021-22
	(d) Any other (pl. specify)	N/A	
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief:**		
7	**Important observations/comments of Prog. Division**		
	The project pertains to social sector and is in conformity with NESIDS guideline. PD recommends the proposal for selection under NESIDS 2021-22.		

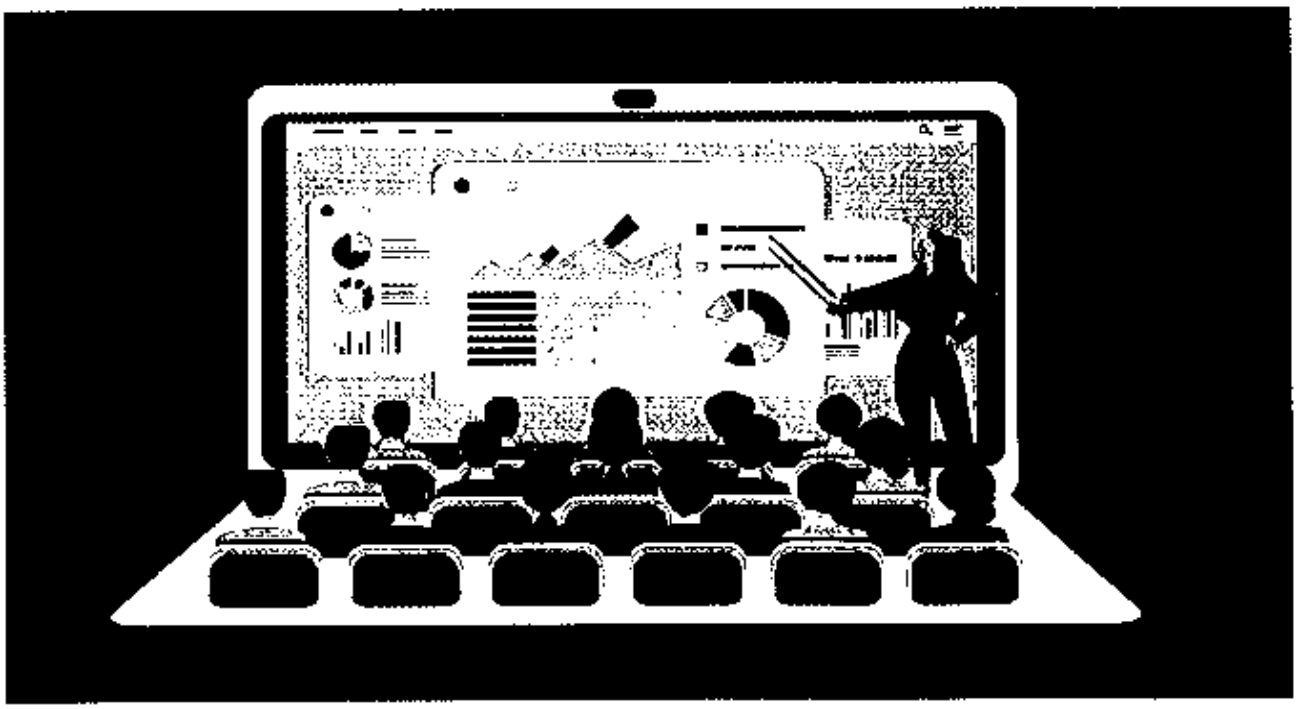
(Dated Signature & Name of
Under Secretary concerned)

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एडसिल EdCIL
Education • Innovation • Transformation

PROPOSAL FOR IMPLEMENTATION OF EDUCATIONAL INFRASTRUCTURE RELATED TO IT PROJECTS IN 190 SCHOOLS ACROSS NAGALAND UNDER "NORTH EAST SPECIAL INFRASTRUCTURE DEVELOPMENT SCHEME –NESIDS"



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1. INTRODUCTION

EdCIL (India) Limited proposes to establish Analytics-powered Interactive Virtual Classrooms in the 190 Government Schools across Nagaland. The proposed solution will enable virtual teaching from a studio by experts using interactive multimedia content. This will ensure high-quality academic inputs reach all students in remote schools. The solution is mapped with Artificial Intelligence (AI) powered student performance tracking. The reports generated help in creating data-driven remedial teaching plans.

EdCIL proposes to set up an entire infrastructure framework for Virtual Classrooms and will operate the platform. The proposed platform utilizes two-way satellite connectivity, so as to overcome the problem of connectivity absence, non-functional connections, or irregular connections in the region. For both LIVE session transmissions from the central state studio and for interactions originating from the classrooms, the platform uses satellite connectivity.

The project will create a real-time digital learning ecosystem in Nagaland's Government Schools with LIVE and interactive expert-led teaching powered by localized digital content, individualized student performance analytics, and real-time geo-mapped monitoring of the entire network.

Main components of the project:

a. Central Broadcasting Studio for Remote Teaching
b. Analytics-powered Interactive Virtual Classroom Setup
c. Interactive Multimedia Content
d. Student Analytics
e. Application Software

Specific Objectives of the Analytics-powered Interactive Virtual Classrooms:

Metric	Objective
Access & Equity	To cross geographical barriers for providing qualitative concept building for students from highly competent teachers and for providing in-service teacher training.
Learning Outcomes	To provide technology-enabled facility, tools, and resources to students for effective learning.
Governance	To provide complete visibility into every student, classroom, teacher, other staff, school, block, district through a multi-tier analytics and online monitoring system.

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2. Organizational Background and Capacity to implement the Project

EdCIL (India) Limited, is a "Mini Ratna Category - I" Central Public Sector Enterprise wholly owned under the administrative control of the Ministry of Education, Government of India. The Company offers Project Management and Consultancy Services in the area of education and human resource development value chain addition within India and overseas. Clients of EdCIL include mostly State and Central Govt. Department, PSUs and Autonomous bodies including IITs, IIMs, IIITs, Kendriya Vidyalaya and Navodaya Vidyalaya.

EdCIL undertakes end-to-end projects on turnkey basis from concept to commissioning and ensures effective management of activities from identification of objectives through continuous monitoring leading to optimal fulfilment of targets within the stipulated time frame.

Our expertise holds special relevance for the education sector in the developing world and our strength lies in tailoring solutions to match exacting ground realities, which speaks volumes of the organizations commitment to educational values.

A strong resource base and a professionally competent and dedicated workforce have ensured us a global presence and strengthened our core competency in all areas of education and human resource development, including other related areas of social sector (Health, Agriculture and Rural Development) EdCIL undertakes projects on turnkey basis from concept to commissioning and ensure effective management of all operational activities from identification and articulation of objectives to the continuous monitoring and evaluation of projects culminating in the fulfilment of targets within the stipulated time frame.

EdCIL presently has strong verticals in the following areas:

- Digital Education System
- Online Testing and Assessment Services
- Educational Infrastructure Services
- Educational Procurement Services
- Advisory Services
- Overseas Education Services
- TSG (Technical Support Group)

Contact details:

Corporate Office:	**Shivam,**	**Pawan Kumar Sharma,**
EdCIL House, 18A, Sector 16A, Noida-201301 U.P. (INDIA)	**Assistant Manager (DES)**	**Chief General manager (DES)**
Contact: +91-120-4156001-02, 4154003, 2512004-06	Email: shivam@edcil.co.in	Email: pawan@edcil.co.in
Fax: +91-120-2515372	Contact: +91-9015156009	Contact: +91- 9717644497

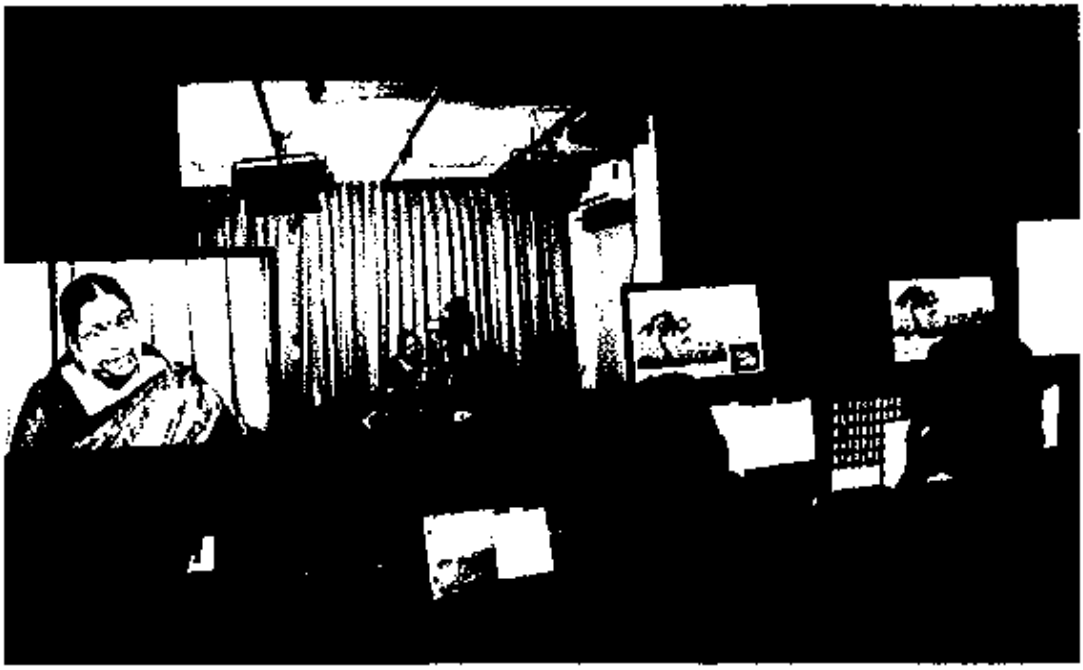
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3. DETAILS OF TECHNOLOGY

A. *Centralized Studio: State level Broadcasting studio to deliver expert-led education*

We will establish a central remote teaching facility (a high definition studio). The studio will have an interactive teaching facility, recording facility, and real-time analytics and monitoring applications. Best teachers will take sessions from studio for students across connected schools. Content repository shall be created and made available for all the students using a centralized application – to enable content access 24 x7 from anywhere and anytime.

Studio Facilities













The studio shall have the Main Studio room, Program Control Room, and Waiting area.
The major components in setting up of the studio are acoustic, audio-video streaming & recording equipment, studio lighting, air-conditioning, furniture, integration/ installation services etc.

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How Studio-Based Teaching Works in Virtual Classroom Platform?

- High-quality LIVE classes from the Studio with interactions between studio and classrooms, and between studio and interaction centre will be enabled.
- During a session, studio teacher overlays his/her voice on e-Content and is able to add his/her comments and illustrations using a stylus which will be seen by all students.

Process of studio-based teaching is as follows:

- The LIVE session streaming (with teacher audio, video, animation, teacher stylus strokes) gets uplinked to the satellite through satellite hub facility.
- The session gets received in the real-time at all the connected virtual classrooms simultaneously via satellite downlink at the school.
- Transmission-reception software decodes the received session content and projects it on the screen instantly.
- In the classroom, during the interaction or Question & Answer slot, a tablet/mobile with HD Camera will be used by students to interact with the remote expert.

Features of Content Delivery Management System (CDMS) in the studio:

- CDMS is platform independent. It is compatible with Windows/Linux/Android/iOS.
- It enables LIVE two-way/multi-way interactive classroom environment and conference meetings.
- It provides complete audio-visual interface between instructor and participants with clear audio, video, and digital content broadcasting.
- Dual Compression Education Codec is specifically designed for education.
- Supports Interaction System for parallel interactions (Student-Interaction teacher, Interaction teacher–Studio expert).
- Supports Offline Recording at every school and at studio.

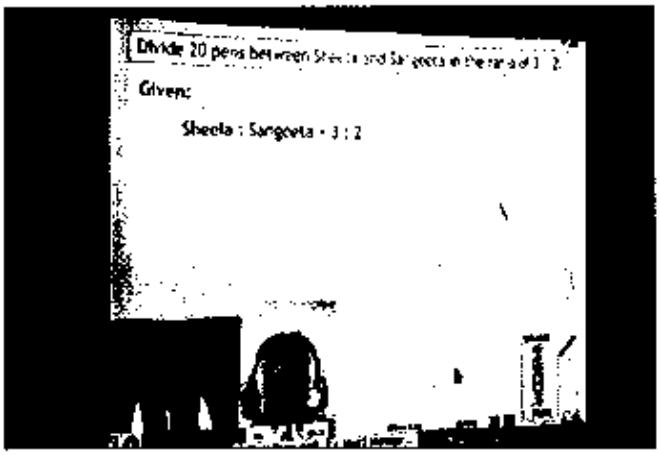
B. Setting up of Analytics-Powered Interactive Virtual classrooms at schools of Nagaland

One of the largest classrooms in each school will be selected to be a Virtual Classroom to receive LIVE & interactive sessions from the studio. We will install following equipment: Short throw projector, Tablet/Mobile with HD Camera, Projector Screen, Virtual Classroom Application Software, Laptop with in-built Graphics Card, Audio System and UPS with 1 Hour Backup. At schools, there will be a facility to access recorded content after the LIVE delivery.

All the LIVE streamed content will be recorded and the schools will be able to access the recorded content - if they missed any LIVE sessions or need it for revision.

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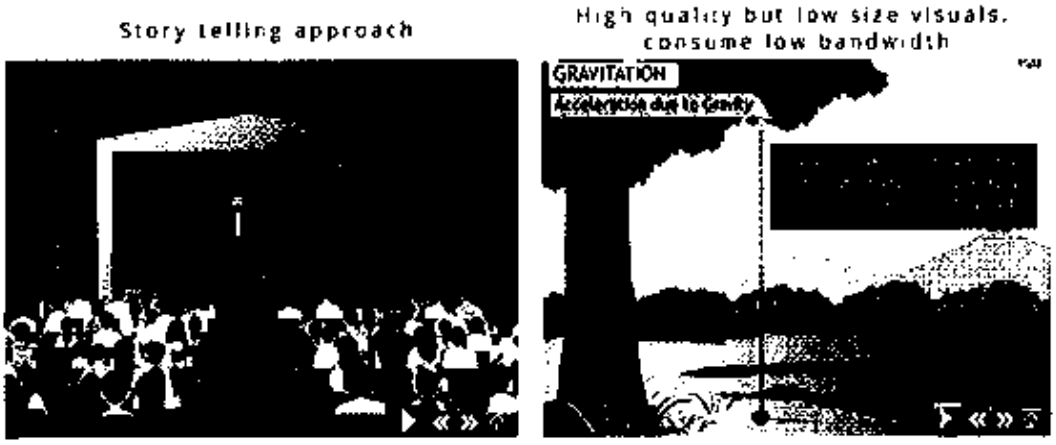
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C. *INTERACTIVE MULTIMEDIA CONTENT*

High-quality curriculum-mapped multimedia content (for classes selected for the project) will be provided as teaching-aid. This content will be designed based on real-life scenarios to hold the attention of students for a longer duration. This will be embedded with MCQ Question Bank to make it interactive and participative.

The goals of multimedia content are to make students -

- understand that, the academic inputs given in the class are not alien to them, but are very much related to their lives.
- see, feel, think, and do while learning, rather than just get ready for examinations.
- explore newer horizons of learning.
- develop reasoning, critical thinking, imaginative, and creative skills.

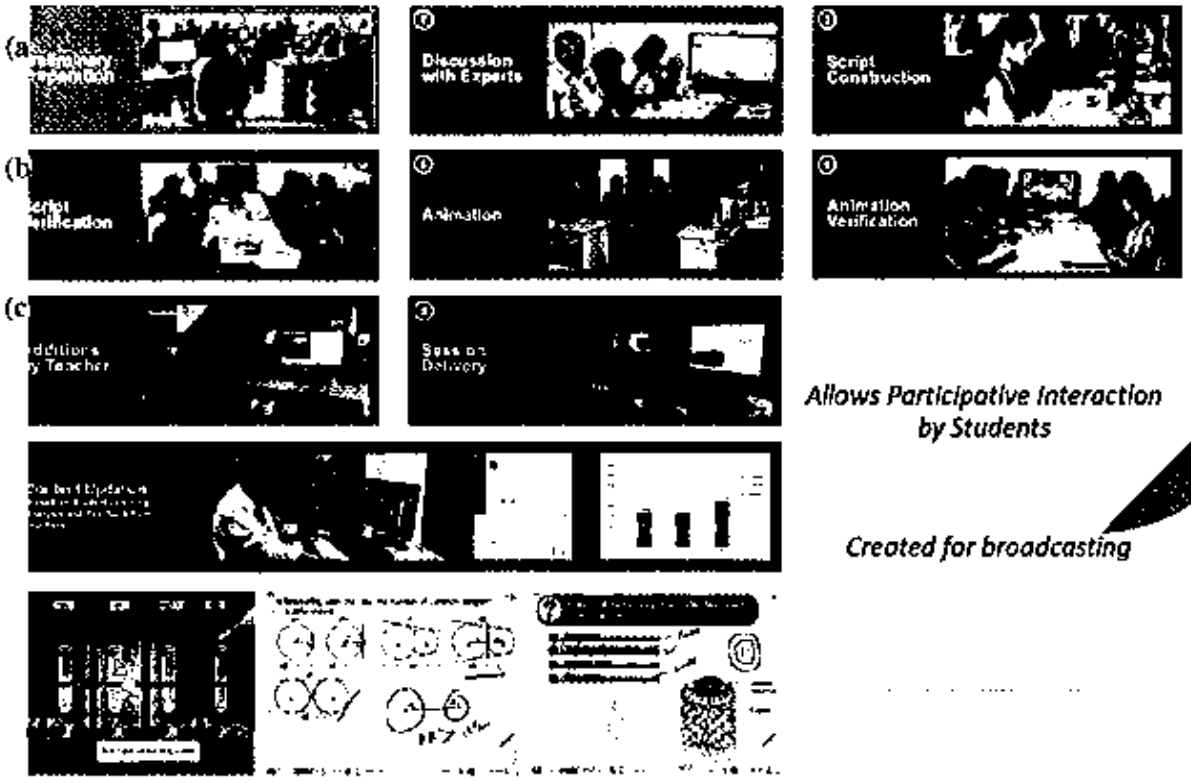


Features of Digital Content:

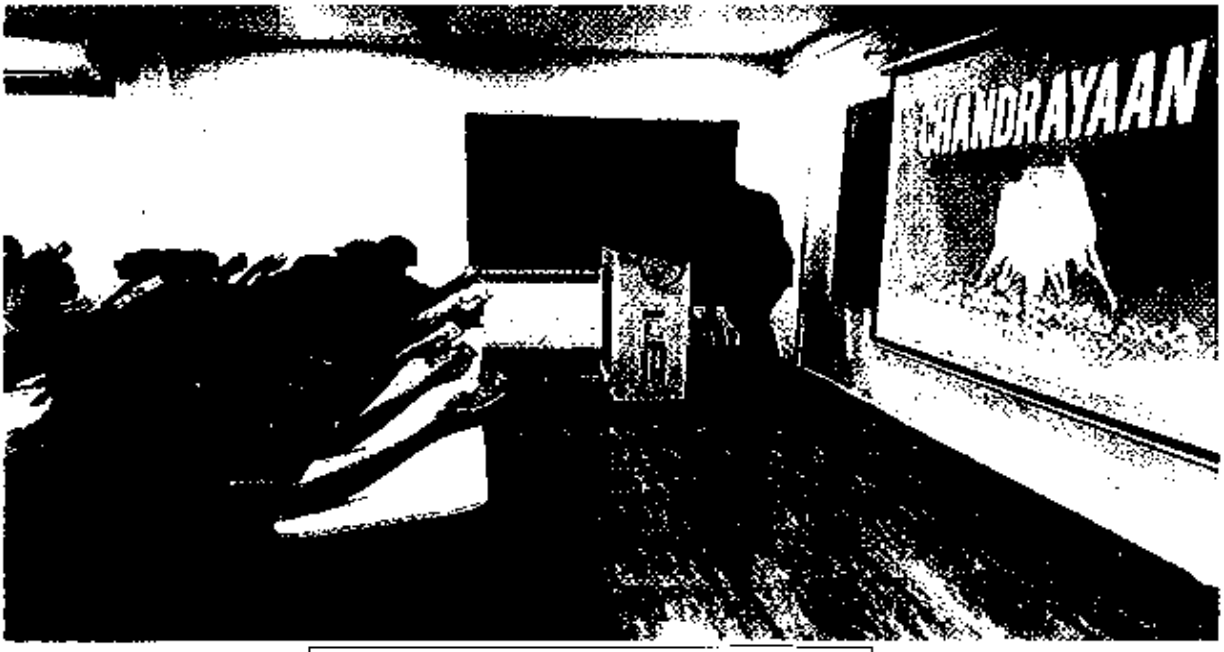
- **Curated content, highly interactive:** High quality vector animations
- **Curriculum mapped:** The e-content will be mapped to Nagaland/CBSE Board Syllabus.
- **Scientifically developed concept teaching based on real-life situations:** In Mathematics, General Science, Physical Sciences, Biology, and English-Grammar + additional subjects as per project needs.
- **Non-voice animations**: Class teacher gives voice to the animations and teaches expressively.
- **Various formats of instructions are embedded in the e-content through scripting:** For example: Multiple Choice Questions, activities, notes, tips, dynamic addition of images (in the real-time) also is possible.
- **Compatible with analytics:** Multiple Choice Questions are embedded in the e-content in order to track responses sent by students through student evaluation tools.

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PROCESS OF CONTENT CREATION



D. *STUDENT ANALYTICS*



tudents answer an MCQ using RAFT to

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For each subject, assessment will be carried out at topic level using **READ Analytics**, which is a student evaluation platform – as detailed below:

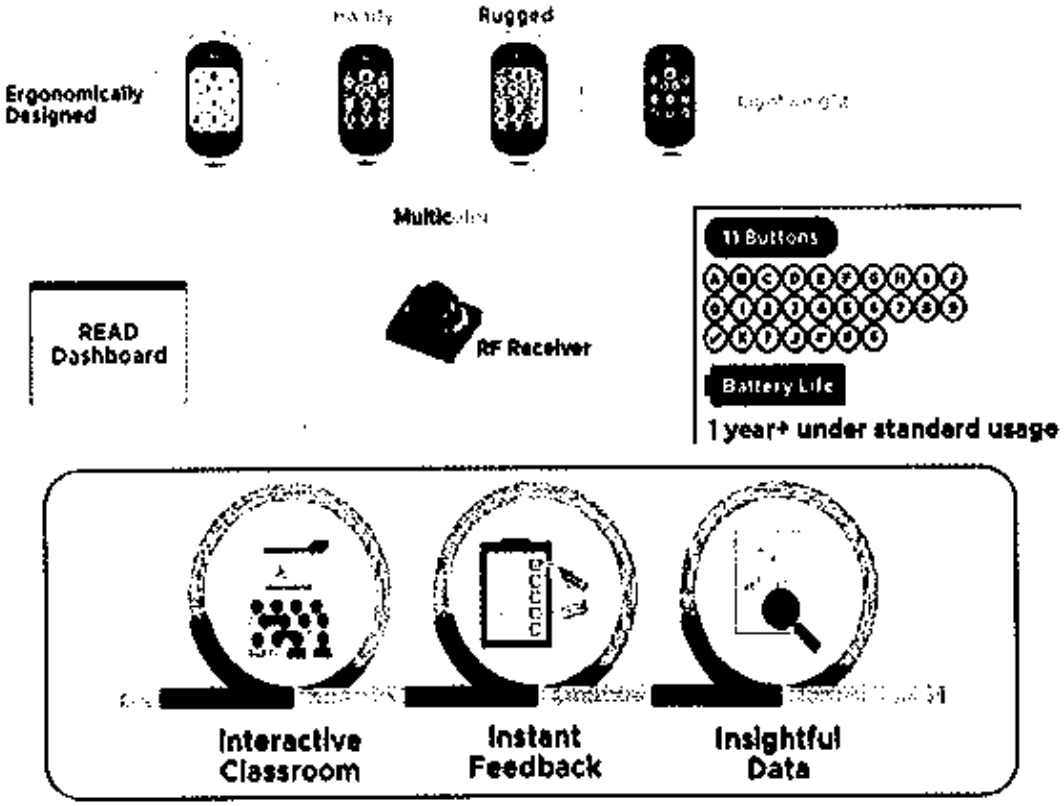
READ Analytics is a full service education analytics solution which can be employed in classroom teaching.

READ Analytics has three components:

1. Read Analytics Frequency Transmitters (RAFT) (For students)
2. READ Question Bank (For Studio Teachers)
3. READ Dashboards (For Schools and Decision Makers)

'READ Analytics' enables data analysis at Student, Section, Grade, School, and Central levels. Intuitive Dashboards help decision makers of school to derive different aspects of teaching and student learning such as:

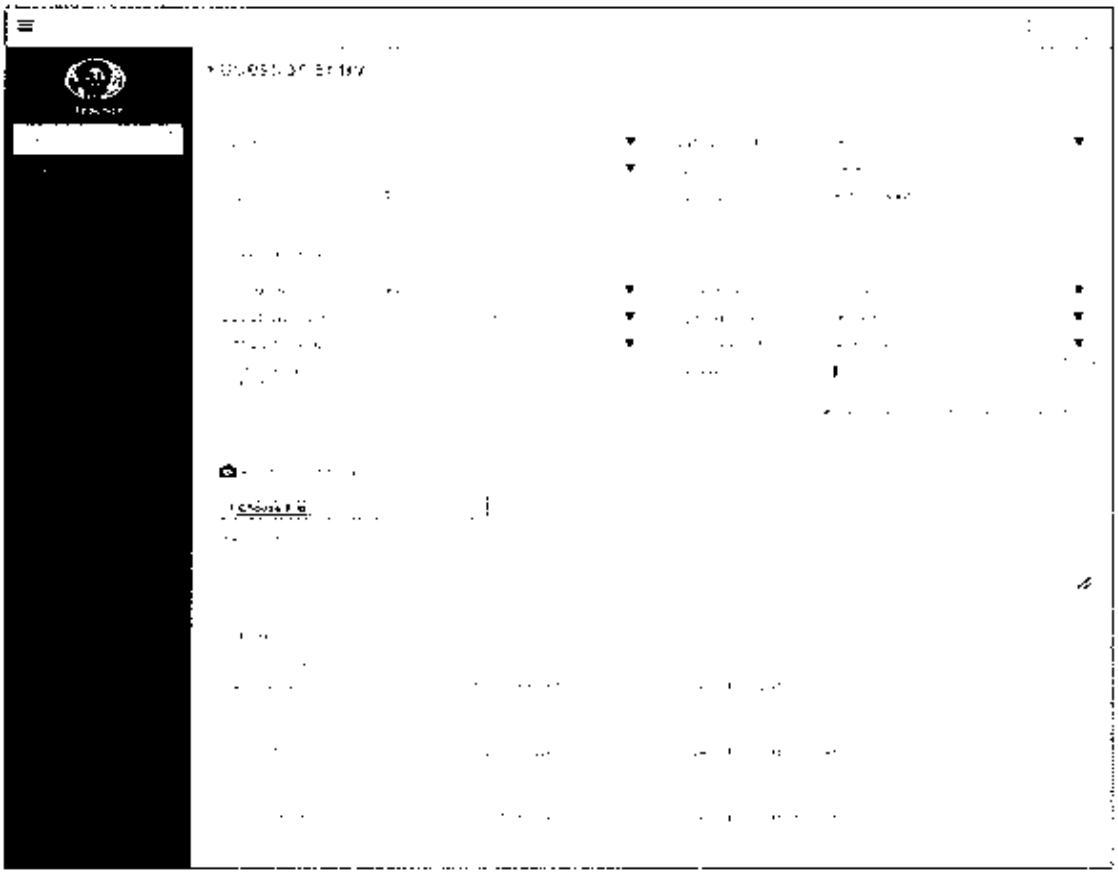
- Peer-to-peer comparison at subject and topics level.
- Comparison of results between schools under the same program.
- Discover conceptual understanding of students in particular block/city etc.



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Access to question bank with Multiple Choice Questions in Board syllabus will be given to studio teachers.

Question Bank App Interface & Question View for Students



During each classroom session, questions will be asked by the teacher for the topic being taught and student's understanding as well as different skills can be gauged in a comprehensive manner. This analysis can be used for introducing student level remedial teaching initiatives.

Which of the following is not an integer ?

A) -8 B) $\frac{3}{4}$

C) 100 D) 0



Fill in the blank with the appropriate conjunction.
My father likes cricket ____ he does not enjoy Hockey.

A) yet B) because

C) but D) so



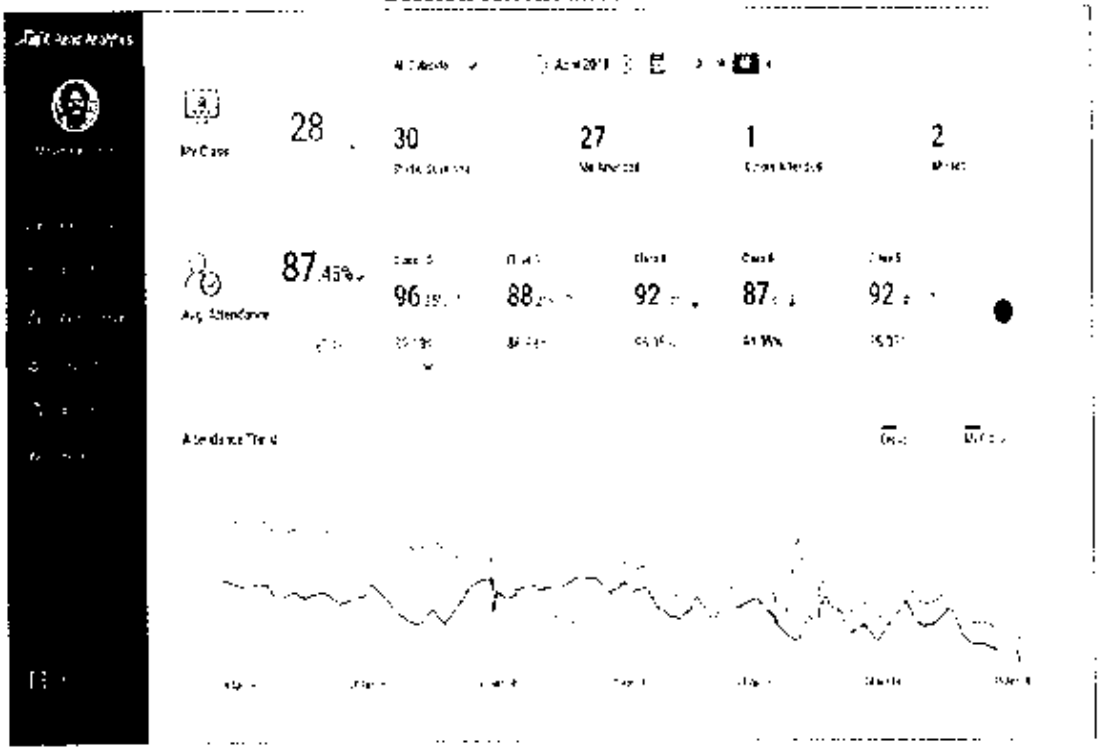
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READ Dashboards:

Some of the terminology in the reports:

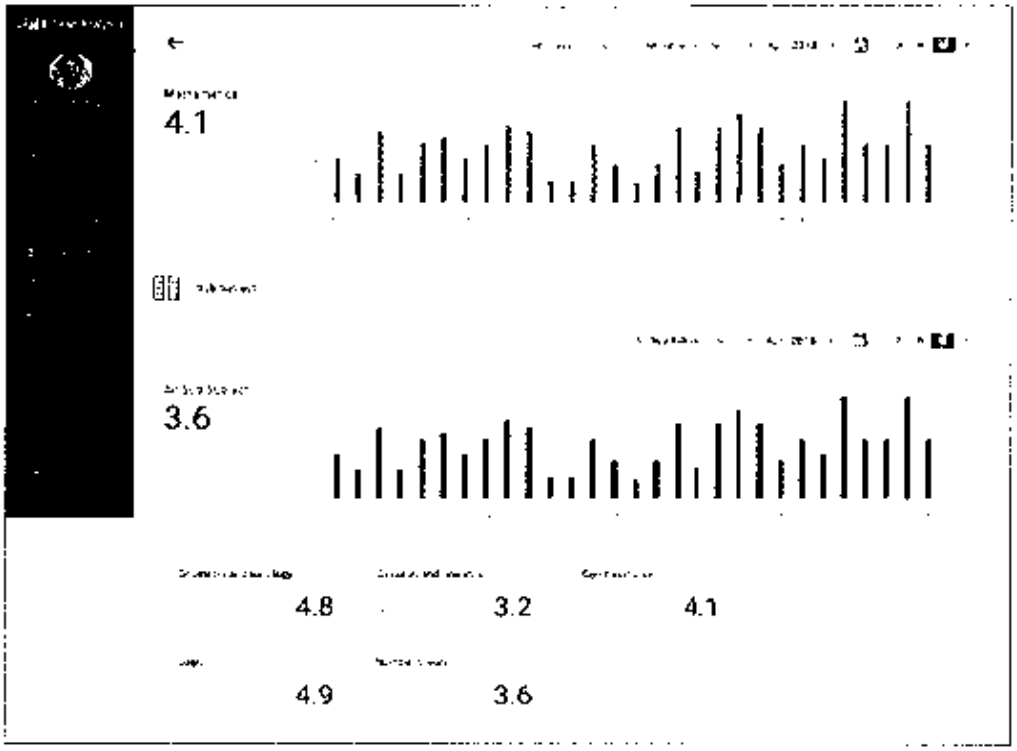
Score	Refers to the overall score from the answers from the questions attempted (scale of 0 to 5)
Accuracy	Refers to the overall correct answers from all the questions attempted (scale of 0 to 5)
Time	The response time taken to answer a question (the time is predefined for each question in the question authoring tool)
Difficulty	Refers to the difficulty level of specific questions asked over the sessions (difficulty level is predefined for each question in the question authoring tool)
READ Velocity	An overall score generated by the Artificial Intelligence program based on a student's performance across various aspects (intelligently modifies the score over a period of time)

Session Attendance View

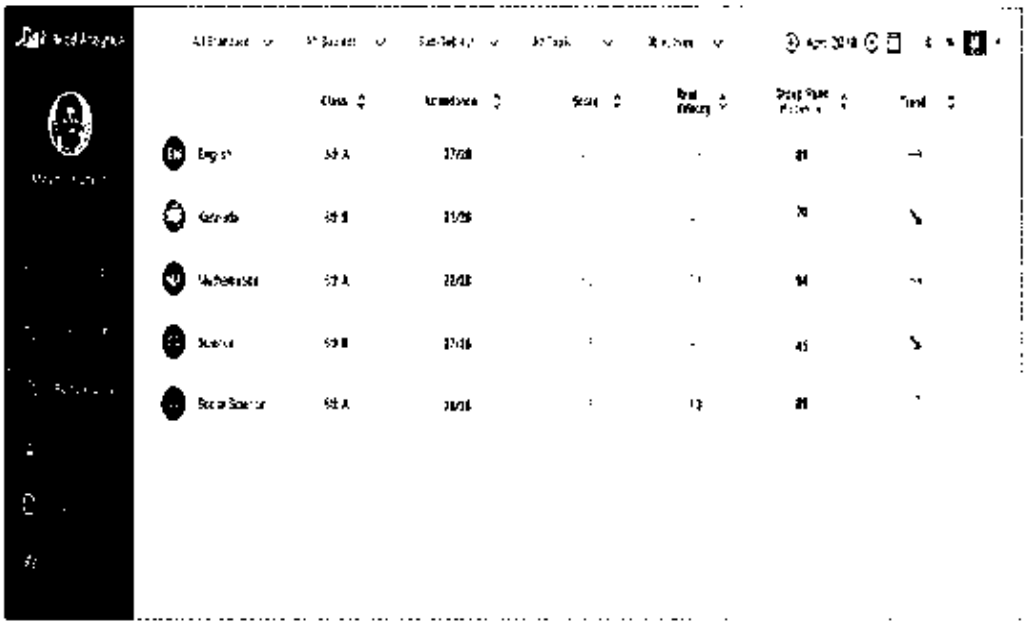


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Subject-wise performance View

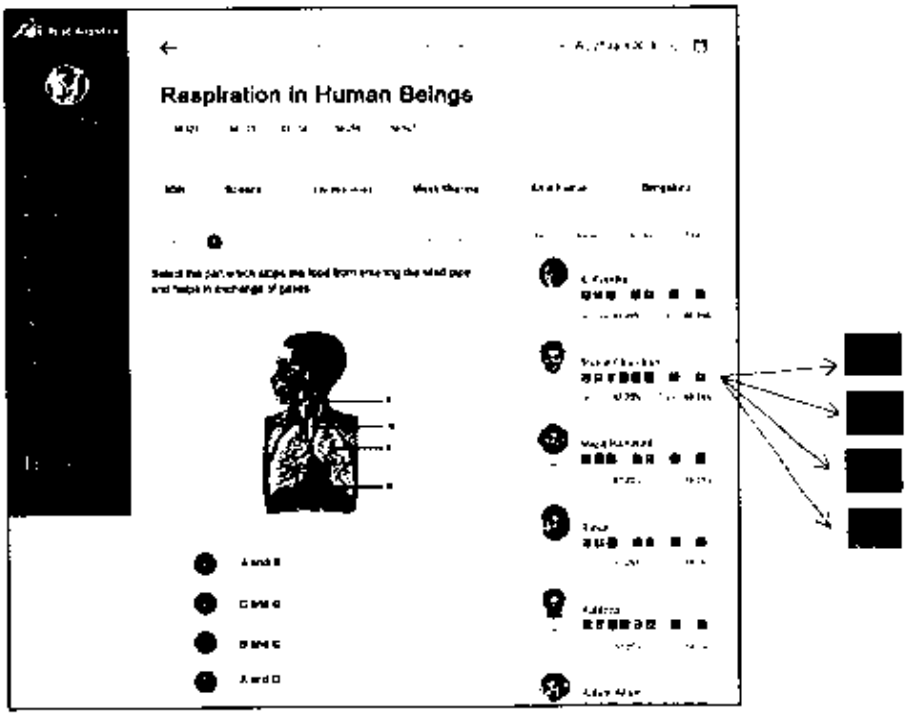


All Subjects Performance View

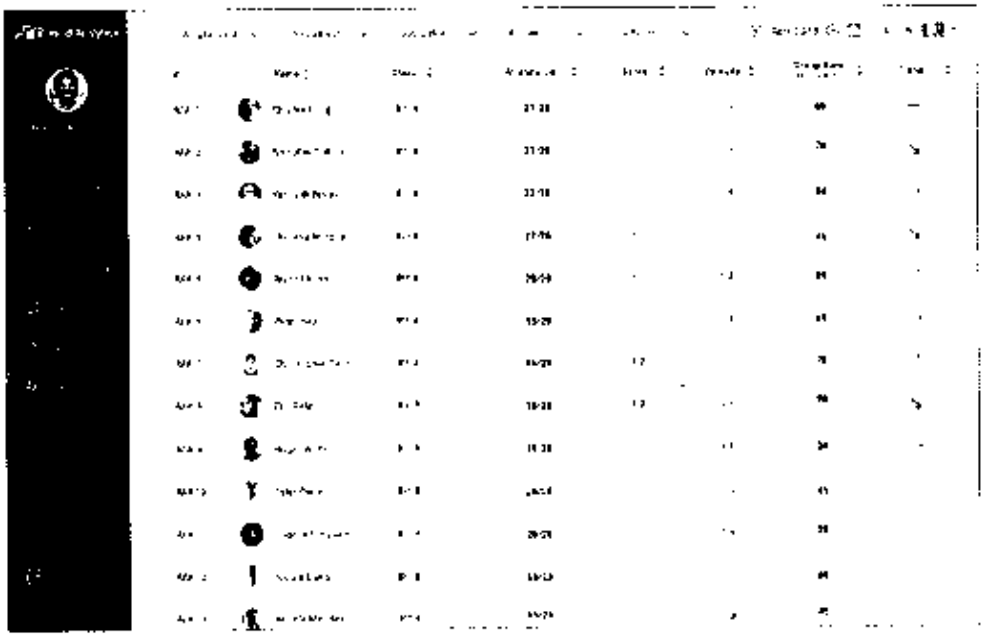


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Deep Dive report of every session & Question

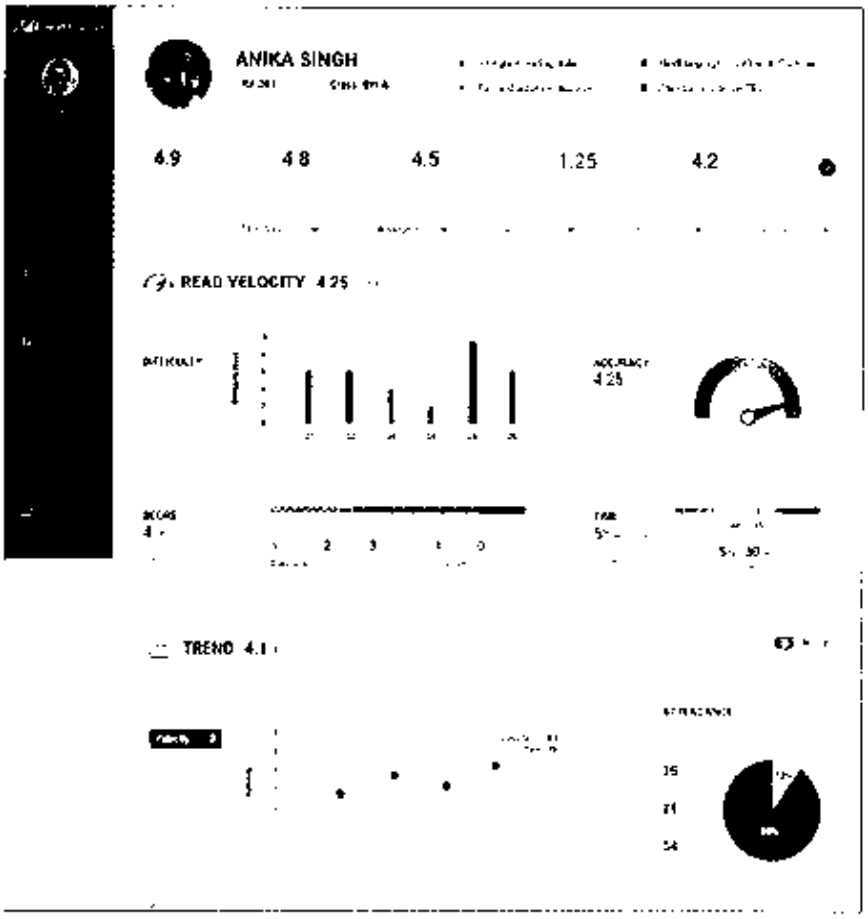


All Students – performance view



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Individual Student – performance Report



E. APPLICATION SOFTWARE

a) Content Delivery Management System (Studio and Classroom Application)

- Integrated with Learning Management System interface
- Platform independent; compatible with Windows/Linux/Android/iOS.
- Enables content management of multimedia and question banks (real-time class and recorded session)
- Enables Content distribution
- Streamline as per grade, subject, teacher
- Easy search & findability
- Bookmarking

b) Mobile app for Students

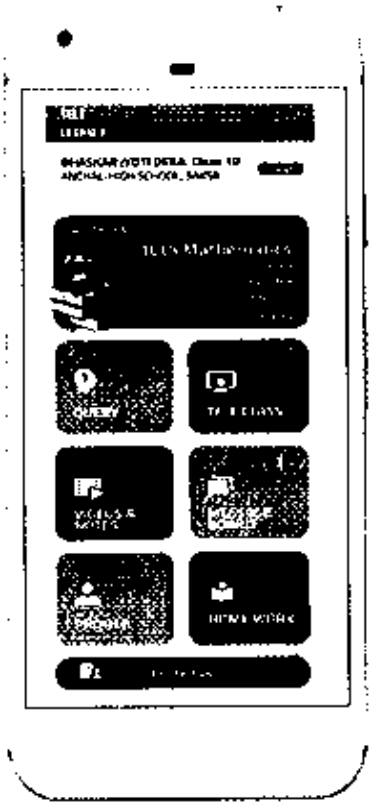
As part of Analytics-powered virtual classroom initiative, we propose to provide a Tele Learner app. This is an android app with simple intuitive interface.

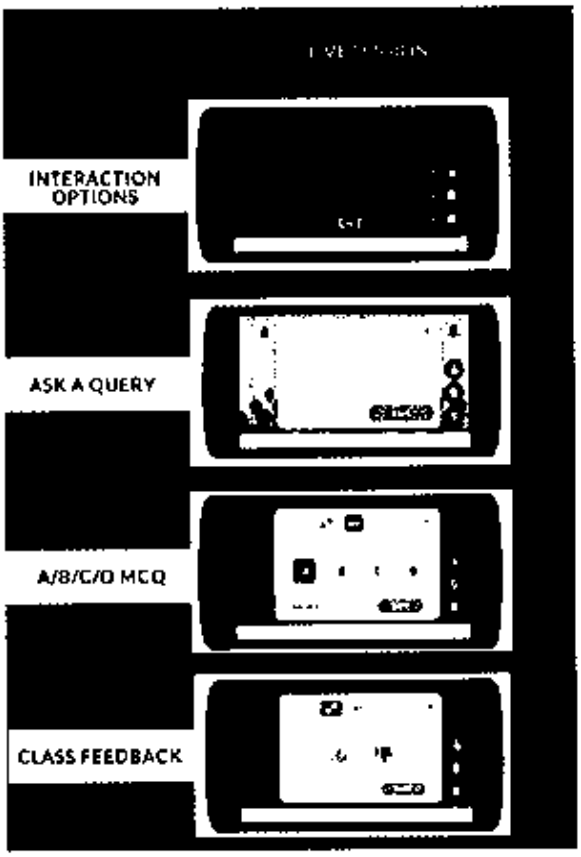
How students access Tele Learner app?

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Students can download & install the app on a smartphone and register with the mobile number

- 24X7 online channel to watch scheduled streaming videos or recorded videos.
- During the session student can send answers to MCQs in-app. This helps capturing program participation analytics, activity even beyond classroom.
- Students can 'raise a query' from the app.





c) **Online Project Monitoring System (OPMS)**

OPMS - Monitoring Dashboard with access at school/district/state integrated with other software to manage all the processes and people involved in the program will be provided. The OPMS system provides **interactive map of the State** showing the program status. At the classroom applications, data sync features will be provided for daily update.

Features of OPMS:

- **Class Run Status**: When a class was run system automatically updates the status and this data gets available online after data sync for viewing. If the status is not available, then status of class not run will be shown for that Classroom.
- **Archived Data**: All the status data gets stored in a Database Archive for at least a year for future reference.

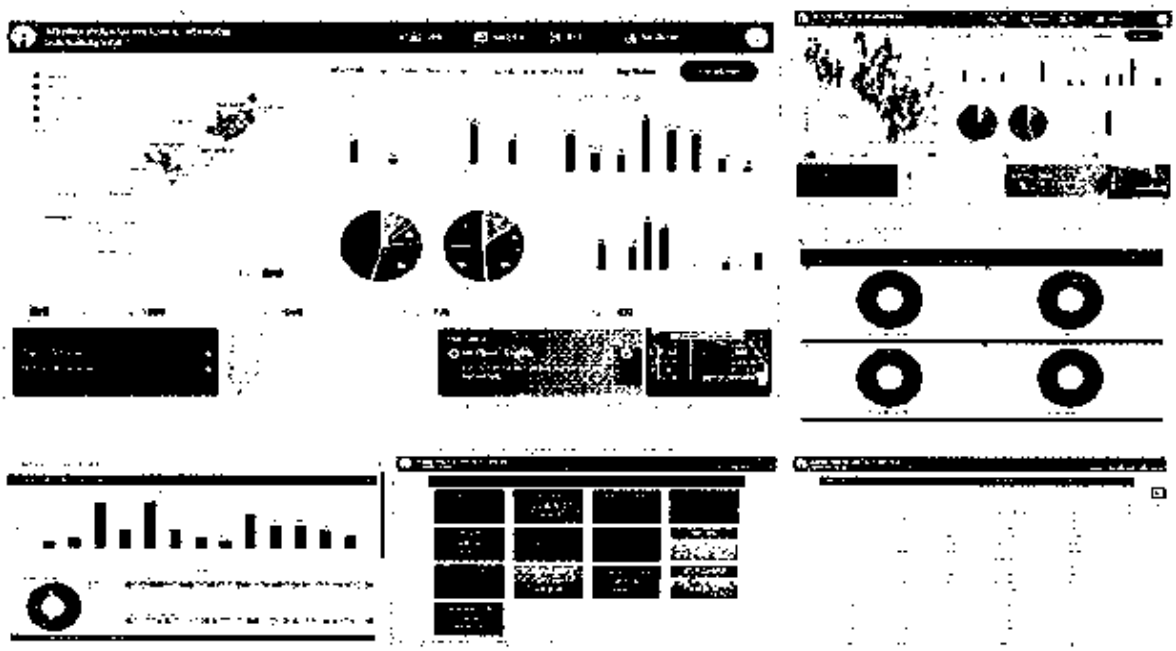
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- **Dashboard- Summary**: A summarized class run status report of any given day will be available in the form of a Dashboard. This report shall be detailed and will include the reason for why class is not run (in such cases, if any).

Some of the important data points on the dashboard are as follows:

- Information regarding subject wise delivery of classes by every teacher.
- Number of virtual classrooms and sessions delivered using Analytics-powered virtual classroom on any day.
- Total number of students benefitted class wise.
- Various types of reports School wise, district wise, State wide.

PROGRAM MONITORING - LIVE DASHBOARD



d) **Applications integrated in the monitoring dashboard**

1. **Complaint Management**

Complaint Management System for all associated hardware, Software, and services will be linked to OPMS.

The system shall make a provision to manage complaints from Analytics-powered Virtual Classrooms and complaints shall be tracked from initiation to closure using the system. The complaints shall be updated and looked into in the real-time for quick resolution of issues. Intuitive interfaces are provided for different user-roles for easy access and management.

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ii. Student Information System

Student information system (SIS) stores and tracks all student information, including grades, attendance records, and any other information linked to analytics-powered virtual classroom program.

Key Benefits of SIS Software

- Improve management of prospective and enrolled student data
- Increase communication between divisions
- Maintain data of stakeholders when transferring records between departments
- Standardize data formats among divisions
- Ease the transfer of data to external institutions
- Reduce the time spent on maintaining and organizing student records

4. BENEFITS OF THE PROJECT

BENEFITS TO STUDENTS

a. There will be noticeable improvements in student learning levels in Math, Science, and English subjects - which are perceived as the difficult subjects.
b. Video clips of Hon'ble Chief Minister and Education Minister on various topics can be recorded to broadcast as an inspiration to children. Occasionally, Ministers can visit the studio to interact LIVE with students.
c. Department Officers can interact with teachers and students. Can hold review meetings and take feedback of services at schools.
d. Experts in various fields, scientists, poets, renowned achievers of the state and the Country can directly address and interact with students - which will be an opportunity of immense value to students.
e. Special motivational sessions can be telecast for students of different age groups.
f. Various interactive sessions on health, fitness, hygiene, moral education, good citizenship - can be organized in schools.
g. Career guidance/competitive exam awareness sessions can be arranged for class 9, 10 students.

BENEFITS TO OTHER STAKEHOLDERS

a. Analytics-powered VC facility can be used for effective in-service teacher training to improve their skills.
b. During weekends and vacations this facility can be utilized to provide training to local rural communities on various Government Schemes existing/being-rolled-out across state.
c. Best practices in Farming can be provided from experts of Krishi Vigyan Kendras to farmers. Farmers can interact directly and get their problem resolved.
d. Awareness programs on various topics can be taken up in Agriculture, Dairy Farming, Other Regional Opportunities, Adult Education etc...
e. Various sessions on social issues, importance of female literacy & empowerment, health & hygiene etc., can be provided to the people.

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5. MANPOWER REQUIREMENT

Manpower requirement (Indicative list):

Designation	Description
Project Manager (MBA)	• The Project Manager heads the entire Project and is responsible for successfully implementing the Project according to the Project Plan. • Project Manager is the execution head and the single point of contact for the entire project. • Project Manager is required to regularly communicate with key stakeholders to ensure project outcomes are met.
Studio Engineer	• Responsible for the Operation of the Studio by supervising and directing other studio staff. • Coordinate with Project Manager on program schedule. • Make sure that programmes are broadcast on time and to the highest level of quality. • Servicing and testing equipment.
Camera Man	• Assemble, prepare and set up equipment prior to LIVE Delivery of sessions, which may include tripods, monitors, lighting, cables and leads and headphones. • Practise the camera moves required for any pre-arranged shots for special sessions.
Academic Manager	• Conduct scheduled classes • Guide shortlisted Government Teachers for LIVE delivery
Helpdesk/Tech Support	• Helpdesk serves as a single point of contact for all project related incidents and service requests. • The Helpdesk agent are mapped to handle requests from specific schools. They shall also handle any project related back-end work. • They shall provide the support for all kinds of disaster management at the local centres.
Nodal Officer	• Nodal Officer will be on the field and handle any incidents and service requests to help make the Classroom working. • They shall be responsible for up keeping for set of schools • Nodal Officer shall also train school teachers to use the Virtual Classroom setup on need basis.

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6. BILL OF QUANTITY

A. Non-Recurring Components

a. Studio

S. No	BOM for Studio Description	Quantity
1	Digital Video Camera with accessories	1
2	Audio mixer with accessories	1
3	Camera Tripod	1
4	Microphone: Cordless Lavaliere	2
5	Audio Monitor	2
6	Interactive Panel with laptop	1
7	55" Professional UHD 4K conferencing display	2
8	Transmission Server	1
9	Satellite Receiving Antenna, Satellite Modem (Compatible with EDUSAT Network) and LNB & Laptop with application software	1
10	LED Studio Lights with ceiling Grid and mounting clamps/hooks	4
11	Furniture	1
12	Electrical networking and Studio cabling including all accessories	1
13	Acoustic, Fabric Above Acoustics with Air Condition	1
14	UPS (10KVA)	1

b. Virtual Classroom:

S. No.	BOM for Virtual Classroom Set up Description	Quantity
1	Projector with ceiling mount	1
2	Projector Screen	1
3	Solar Hybrid Power Backup system	1
4	Audio System	1
5	Computing Device	1
6	Portable AV interactive device with multipoint touch	1
7	Application Software	1
8	HD Web camera	1
9	Communication equipment 2-VSAT	1
10	Wi-Fi Modem	1
11	Solar Panel	1
12	Monitoring, Evaluation, analytics and assessments (per school)	1
13	Clicker Analytics system (50 handset and 1 receiver)	1
14	Electrical networking and virtual classroom cabling including all accessories	1

c. Centralized Application Software:

S. No.	Description	Quantity
1	Centralized Application Software • Content Delivery Management System • Learning Management System • Mobile Apps for teachers and students	1

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	• Online Project Monitoring System • Dashboard and Reports • Complaint Management System • Student Information System and Real-time Analytics • Artificial Intelligence and Big Data powered student assessment system • Student Evaluation and Assessment. • Pre-test and Post-test for Impact Evaluation • Manpower assigned for each school. • Reporting: Various types of report subject to operations	

d. **Digital Multimedia Content:**

S. No.	Description	Quantity
1	Digital e- Content development for Live teaching	As required

e. **Capacity Building of the Teachers:**

S. No.	Description	Quantity
1	Training of Teachers at Studio (1 Batch of 10 Teachers)	1 Batch
2	Training of Teachers of Virtual Classroom (5 Teachers per school)	38 Batches (1 batch consists of 25 Teachers)

B. **Recurring Components (Per Annum)**

a. **Manpower:**

S. No.	Description	Quantity
1	Project Manager (MBA)	1
2	Studio Engineer	1
3	Camera Man	1
4	Academic Manager	1
5	Helpdesk/Tech Support	2
6	Nodal Officer	10

b. **Connectivity:**

S. No.	Description	Quantity
1	Studio Connectivity (leased line of minimum Bandwidth 10 Mbps)	1
2	Satellite Connectivity per studio (Minimum Bandwidth 2 Mbps)	1

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SCHEDULE OF PRICE

NON- RECURRING COST

STUDIO

S.No.	Items	Quantity	Price (Incl. of GST)
1	Digital Video Camera with accessories	1	51,94,024.00
2	Audio mixer with accessories	1	
3	Camera Tripod	1	
4	Microphone: Cordless Lavaliere	2	
5	Audio Monitor	2	
6	Interactive Panel with laptop	1	
7	55" Professional UHD 4K conferencing display	2	
8	Transmission Server	1	
9	Satellite Receiving Antenna, Satellite Modem (Compatible with EDUSAT Network) and LNB & Laptop with application software	1	
10	LED Studio Lights with ceiling Grid and mounting clamps/hooks	4	
11	Furniture	1	
12	Electrical networking and Studio cabling including all accessories	1	
13	Acoustic, Fabric Above Acoustics with Air Condition	1	
14	UPS (10KVA)	1	

VIRTUAL CLASSROOM

S.No.	Items	Quantity	Price Per Classroom (Incl. of GST)
1	Projector with ceiling mount	1	5,98,962.10
2	Projector Screen	1	
3	Solar Hybrid Power Backup system	1	
4	Audio System	1	
5	Computing Device	1	
6	Portable AV interactive device with multipoint touch	1	
7	Application Software	1	
8	HD Web camera	1	
9	Communication equipment 2-VSAT	1	
10	Wi-Fi Modem	1	
11	Solar Panel	1	
12	Monitoring, Evaluation, analytics and assessments (per school)	1	

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13	Clicker Analytics system (50 handset and 1 receiver)	1	
14	Electrical networking and virtual classroom cabling including all accessories	1	

Centralised Application Software

S.No.	Items	Quantity	Price (Incl. of GST)
1	Centralized application (all with perpetual license)	1	4,06,92,300.00

Digital Multimedia Content

S.No.	Items	Quantity	Price (Incl. of GST)
1	Digital e- Content development for Live teaching (Per session of minimum 40 mins)	1	1,17,469.00

Capacity Building of the Teachers

S.No.	Items	Quantity	Price (Incl. of GST)
1	Training of Teachers at Studio (1 Batch of 10 Teachers)	1	10,29,314.00
2	Training of Teachers of Virtual Classroom (5 Teachers per school)	38	

RECURRING COST

Connectivity Cost per Annum

S.No.	Items	Quantity	Price (Incl. of GST)
1	Studio (leased minimum 10 Mbps) Connectivity line of Bandwidth	1	64,90,000.00
2	Satellite Connectivity per studio (Minimum Bandwidth 2 Mbps)	1	

Manpower Cost Per Annum

S.No.	Items	Quantity	Price (Incl. of GST)
1	Project Manager (MBA)	1	84,11,040.00
2	Studio Engineer	1	
3	Camera Man	1	
4	Academic Manager	1	
5	Helpdesk/Tech Support (1 for every 100 schools)	2	
6	Nodal Officer (1 per every 20 schools)	10	

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PROJECT COST

Non Recurring Cost

S.No.	BOM	Qty (A)	Price (Inclusive of GST) (B)	Total Price (Incl. of GST) = AxB
1	STUDIO	1	51,94,024.00	51,94,024.00
2	VIRTUAL CLASSROOMS	190	5,98,962.10	11,38,02,799.00
3	CENTRALISED APPLICATION SOFTWARE	1	4,06,92,300.00	4,06,92,300.00
4	DIGITAL MULTIMEDIA CONTENT	190	1,17,469.00	2,23,19,110.00
5	CAPACITY BUILDING OF TEACHERS	1	10,29,314.00	10,29,314.00
Total				18,30,37,547.00

Recurring Cost

S.No.	BOM	Qty (A)	Price (Inclusive of GST) (B)	Total Price (Incl. of GST) = AxB
1	CONNECTIVITY COST PER ANNUM	1	64,90,000.00	64,90,000.00
2	MANPOWER COST PER ANNUM	1	84,11,040.00	84,11,040.00
Total				1,49,01,040.00

Terms & Conditions:

- Advance of 80% payment of the Non-Recurring cost shall be released along with work order.
- 20% payment of the Non-Recurring cost shall be released on completion of delivery of all the components at client site.
- Recurring payment shall be released in advance at the start of every year.
- Training Payment shall be released after imparting the training. (As per actuals)
- In case of any change in Tax/GST rates or other levies by the Government of India/State during the project execution, then the same will be applicable.
- The above price is inclusive of three (03) years onsite warranty support excluding consumables.
- The above proposal is valid till 31.03.2021 from the date of submission of the proposal.

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Annexure - AL

31st meeting of IMC/NESIDS scheduled on 29.10.2021

IV. CHECKLIST-CUM-AGENDA NOTE FOR CHANGE OF SCOPE OF WORK
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: AL **State: Nagaland**

Name of Project: Strengthening health Infrastructure for Comprehensive response to possible Outbreak of COVID19 In Nagaland under NESIDS

Project Description/Summary (not exceeding 200 words): The Government of Nagaland has received 27 PSA Oxygen plants from Central Government (PMCARES) and also from other Agencies (UNICEF, UNDP, DIAGEO, Turkey, ACT Grant, HANS Foundation, etc.).

2. Out of27 nos. of PSA plants of various capacities received by the state -

i) Only 6 PSA plants could be functionalized till date.

ii) 14 PSA plants require new Generator Sets to provide uninterrupted power supply to the plants.

iii) 13 health facilities require 3 phase power connection, dedicated transformer to keep the PSA plants up and running.

iv) 6 PSA plants are being relocated from DH to the CHCs and for which PSA housings besides electrification, 3 phase power connection, dedicated transformer, Generator shed, etc. are required to make the plants operational.

3. Many ambulances supported under NHM and deployed in the peripheral health facilities have become old and undependable for frequent patient transport. Furthermore, there is now no provision for CAPEX for replacement of these ambulances under the NHM.

4. The requirement of Patient Transport Ambulance far out-weighs the need for ALS & BLS Ambulances due to the reason as stated above and also 24 BLS ambulances being donated already by NHIDCL, MORTH-GOI. These BLS ambulances have been deployed to strategic health facilities covering all the 12 districts of the State.

5. The State proposes to address the urgent need to functionalize the PSA plants and also purchase Patient Transport Ambulance by utilizing the approved funds of project "Strengthening health Infrastructure for Comprehensive response to possible Outbreak of COVID19 In Nagaland" for purchase of 4 PSA plants,11 ALS & 10 BLS ambulance amounting to Rs 709.00 Lakh.

2	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Health		
3	**Date of receipt of proposal for change of scope of work from State Government (SG)**	14.09.2021		
4	**Discription**	**Original Cost**	**Description of items proposed in revised project**	**Component cost proposed**
	1	2	3	4
	Item of works	**Cost (Rs. crore)**	**Item of works**	**Cost (Rs. crore)**

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1	Strengthening ICU facilities for COVID-19	2.70	Strengthening ICU facilities for COVID-19	2.70
2	Setting up of Blood Banks at the district hospitals of Tuensang, Kiphire, Mon and Phek	1.68	Setting up of Blood Banks at the district hospitals of Tuensang, Kiphire, Mon and Phek	1.68
4	Setting up of a Cardiac Centre at CIHSR, Dimapur	6.49	Setting up of a Cardiac Centre at CIHSR, Dimapur	6.49
3	Oxygen generation plant	2.00	**Procurement of 14 nos. of Generators; Auto Change-over, Armor Cable, transportation**	2.97
5	ALS Ambulance	3.19	**Construction of 6 nos. PSA Housing ; internal electrification for 8 sites; 19 nos, Generator Shed; Transportation cost for shifting 6 PSA plants to CHCs**	1.18
6	BLS Ambulance	1.90	**Transformer for 13 PSA plants.**	1.60
8			**Purchase of 10 nos. Patient Transport Ambulance: (FORCE Trax cruiser ambulance BS 6P, PS, AC, ABS, TYPE B)**	1.34
7	**G. Total (in Lakhs)**	17.96	**G. Total (in Lakhs)**	17.96

Remark: The State proposed the PSA plants and Patient Transport Ambulance by utilizing the approved funds vide Ministry of DONER letter No. NESIDS-16012(I I)/2/2020. O/o DiroNLCPR) dated 02.07.2020, for purchase of 4 PSA plants,11 ALS & 10 BLS ambulance amounting to Rs 709.00 Lakh.

5	**Original approved project cost**			**Revised project cost (if any)**
	Rs. 25 crore			-
	Central Share	**State Govt Share**	**Total**	**Central Share and state share**
	1		**3**	**4**
	17.96	0	17.96	No Change
6	**Original time frame for completion**			
	6 months			

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7	**Is the proposal accompanied with following documents: (Specify)**			
	(a) Revised Techno-Economic vetting of DPR by SLEC (if applicable)	Yes		
	(b) Revised Abstract of Cost signed by Competent Authority (if applicable)	No. signed copy has been sought from SG		
	(c) Minutes of SLEC meeting approving the change of scope	Yes		
	(d) Requisite certificates	NA		
	(e) Any other (specify)			
8	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**			
	Name of line Ministry/IFD/Technical Wing/Others	**Date of receipt of comments (if any)**		
	1	**2**		
	IFD	Not received.		
	Technical Wing	Not received.		
	MoH&FW	Not received.		
9	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)-**			
10	**Important observations/comments of Prog. Division-** Views of MoH&FW would be taken during the meeting . SG has proposed the replace the 2 components of Oxygen Generation plants and Ambulalnces with Generators, PSA Housing, Transformers and Patient Transport Ambulances . The revised cost comes out to be within approved cost. PD recommends for revision in sanction.			



(Dated Signature & Name of
Under Secretary concerned)

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GOVERNMENT OF NAGALAND
PLANNING & CO-ORDINATION DEPARTMENT
NAGALAND: KOHIMA.

No. PLN/NESIDS-PL/2020-21 **Dated Kohima, the 14/15 September 2021**

To

Shri Saurab Endley,
Joint Secretary,
Ministry of DoNER,
Vigyan Bhawan Annexe,
Maulana Azad Road,
New Delhi – 110011.

Sub: Matter regarding the project, "Strengthening of Health Infrastructure for comprehensive response to possible outbreak of COVID-19" in Nagaland under NESIDS.

Sir,

With reference to the subject cited above, the undersigned is directed to forward herewith the proposal as received from the Health & Family Welfare Department for reallocation of fund for the project, "Strengthening of Health Infrastructure for comprehensive response to possible outbreak of COVID-19" in Nagaland under NESIDS.

The submission is in pursuance to the State Level Empowered Committee (SLEC) meeting held on 9th September 2021 under the chairmanship of Chief Secretary, Nagaland through VC.

For your kind consideration and necessary action please.

Yours faithfully,
14.9.21
(Augustine M. Yanthan)
Joint Development Commissioner

Copy to:

1. The OSD to Hon'ble Chief Minister, Nagaland for kind information of Hon'ble Chief Minister.
2. The OSD to Hon'ble Minister, Planning for kind information of Hon'ble Minister.
3. The Dy. Secretary to Chief Secretary & Development Commissioner for kind information of CS & DC.
4. The Commissioner & Secretary, Planning & Co-ordination Department, Nagaland.
5. The Pr. Secretary, H&FW Department, Nagaland, Kohima.
6. The Pr. Director, H&FW, Nagaland, Kohima.
7. Office copy.

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Annexure -I

REVISED PROPOSAL FOR UTILZATION OF FUNDS APPROVED UNDER NESIDS VIDE SANCTION LETTER NO. NESIDS-16012(11)/2/2020. O/O DIR (NLCPR) DATED 02.07.2020, AGAINST THE PROJECT "STRENGTHENING OF HEALTH INFRASTRUCTURE FOR COMPREHENSIVE RESPONSE TO POSSIBLE OUTBREAK OF COVID-19 IN NAGALAND".

Rationale:

- The Government of Nagaland has received 27 PSA Oxygen plants from Central Government (PMCARES) and also from other Agencies (UNICEF, UNDP, DIAGEO, Turkey, ACT Grant, HANS Foundation, etc.).
- Out of 27 nos. of PSA plants of various capacities received by the State –
    - Only 6 PSA plants could be functionalized till date.
    - 14 PSA plants require new Generator Sets to provide uninterrupted power supply to the plants.
    - 13 health facilities require 3 phase power connection, dedicated transformer to keep the PSA plants up and running.
    - 6 PSA plants are being relocated from DH to the CHCs and for which PSA housings besides electrification, 3 phase power connection, dedicated transformer, Generator shed, etc. are required to make the plants operational.
- In various review meetings with the District Health Authorities, requirement for Patient Transport Vehicle has been put up to bridge the gap arising out of non-availability of transport vehicles to cater to the patients in the remote places, in the event of surge in COVID-19 positive cases and also to be in a ready state to combat the 3rd wave of the pandemic.
- Many ambulances supported under NHM and deployed in the peripheral health facilities have become old and undependable for frequent patient transport. Furthermore, there is now no provision for CAPEX for replacement of these ambulances under the NHM.
- At this juncture, the requirement of Patient Transport Ambulance far out-weighs the need for ALS & BLS Ambulances due to the reason as stated above and also 24 BLS ambulances being donated already by NHIDCL, MoRTH-GOI. These BLS ambulances have been deployed to strategic health facilities covering all the 12 districts of the State.
- In the light of the above, the State proposes to address the urgent need to functionalize the PSA plants and also purchase Patient Transport Ambulance by utilizing the approved funds vide Ministry of DoNER letter No. NESIDS-16012(11)/2/2020. O/o Dir(NLCPR) dated 02.07.2020, for purchase of 4 PSA plants, 11 ALS & 10 BLS ambulance amounting to Rs 709.00 Lakh.

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SUMMARY OF APPROVAL & REVISED ACTIVITIES PROPOSED WITH APPROVED FUND:

Sl	Particulars	Nos.	Approved Amt. (Rs. in Lakh)	Remarks/Proposed Activities
1	Strengthening ICU facilities for COVID-19	11 Hospitals	270.32	No change. Work ongoing.
2	Setting up Blood Bank at DH Tuensang, Kiphire, Mon & Phek	4 Hospitals	167.80	No change. Awaiting 2nd Installment sanction from GOI for execution of work.
3	Oxygen Generation Plant	4 Nos.	200.00	Revision of activity proposed for operationalization of 21 PSA plants & purchase of 10 nos. Patient Transport Ambulance
4	Setting up Cardiac Centre at CIHSR, Dimapur	1 Nos.	648.50	No change. Work ongoing.
5	ALS Ambulance	11	319.00	Revision of activity proposed for operationalization of 21 PSA plants & purchase of 10 nos. Patient Transport Ambulance
6	BLS Ambulance	10	190.00	

Summary of Budget Proposed against revised activities:

Item	Activity	Budget Proposed (Rs)
i	Procurement of 14 nos. of Generators; Auto change-over; Armor Cable; transportation.	2,97,39,200
	Construction of 6 nos. PSA Housing ; internal electrification for 8 sites; 19 nos. Generator Shed; Transportation cost for shifting 6 PSA plants to CHCs.	1,17,93,649
	Transformer for 13 PSA plants.	1,60,17,000
	Sub Total (A)	**5,75,49,849**
ii	Purchase of 10 nos. Patient Transport Ambulance: (FORCE Trax cruiser ambulance BS 6P, PS, AC, ABS, TYPE B).	1,33,50,151
	Sub Total (B)	**1,33,50,151**
	GRAND TOTAL (A+B)	**7,09,00,000**
	Rupees Seven Crore Nine Lakh	

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DETAILS OF THE REVISED ACTIVITIES TO BE CARRIED OUT WITH THE APPROVED FUND AGAINST 4 PSA PLANTS AND 11 ALS & 10 BLS AMBULANCES:

A. PROCUREMENT OF 14 NOS. OF GENERATORS, 13 TRANSFORMER AND CONSTRUCTION OF 19 GENERATOR-SHED FOR PROVIDING UNINTERRUPTED POWER SUPPLY TO 21 PSA PLANTS.

Out of 27 nos. of PSA plants allotted to various health facilities in the State, only 6 plants are fully functional. 13 health facilities require strengthening of power supply with 3 phase connection and dedicated transformer. 14 PSA plants are without alternate power supply and therefore require Generator set and other related works to provide uninterrupted power supply and 6 PSA plants are required to be relocated to CHCs from DH and for which PSA housing, Generator shed and new transformers are required to be installed.

Against the approved amount of Rs. 200.00 Lakh for setting up 4 nos. of PSA plants, since sufficient PSA plants are already made available through various agencies, revision of the activity is proposed for procurement of 14 nos. of Generators and other accessories, 13 transformers and construction of 19 nos. of Generator-shed for providing uninterrupted power supply to the PSA plants. Since, the total fund requirement (amounting to Rs. 575.50 Lakh) for operationalizing PSA plants cannot be fully met out of this approved fund, it shall be adjusted and utilized from the funds approved under the ALS and BLS ambulances amounting to Rs.509.00 Lakh and the balance amount utilized for procuring 10 patient transport ambulances which is much needed, particularly in the rural and remote places.

The detail proposal along with fund requirement is given in the table below:

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Budget details along with fund requirement for 14 Generators and other accessories, 13 transformers and construction of PSA Housing/DG-shed:

Sl. No.		Location	Capacity LPM	Allotment by	PSA Size (meter x meter)	PSA Housing	Electrification	Cost of Generator Shed (Rs)	Genset (kVA)	Generator Cost (Rs)	Auto-change Over (Rs)	Transportation (Rs)	Armoured Cable Size in Sq.mm (Rs(	Armoured Cable (Rs)	Transformer Capacity (kV)	3 Ph Power / Transformer (Rs)	Shifting (Loading, unloading & Transportation) of PSA Equipments (Rs)	Total (Rs)
1	1	DH Dimapur	200	PM Cares	COMPLETED													
2	2	NHAK Kohima	300															
3	3	DH Mokokchung	200															
4	4	CIHSR Dimapur	1000															
5	5	DH Phek	150	UNDP														
6	6	DH Tuensang	150															
7	1	DH Mon	400	ACT Grants	7 x 7	ACT GRANTS												
8	2	DH Dimapur	400	Dragco	7 x 7	Dragco	177,662	138,000	100	1,450,000	140,000	5,000	120	54,000				1,964,662
9	3	DH Mokokchung	600	Hans Edn	7 x 7	Hans Edn	175,310	158,000	200	2,400,000	200,000	25,000	185	64,000	200	1,545,000		4,567,310
Grand Total						(A)	352,972	296,000		3,850,000	340,000	30,000		118,000		1,545,000		6,531,972
10	1	DH Kiphire	250	PM Cares	7 x 7	Fund supported under DRDO		203,000	100	1,450,000	140,000	70,000	120	37,200				1,900,200
11	2	NHAK Kohima	1000		8 x 8			210,000	250	2,750,000	300,000	15,000	300	714,000	250	1,795,000		5,784,000
12	3	Yachem CHC (Longleng)	250		7 x 7			163,000	100	1,450,000	140,000	30,000	120	37,200	100	1,269,000		3,089,200
13	4	DH Peren	250		7 x 7			148,000	100	1,450,000	140,000	15,000	120	37,200	100	1,256,000		3,046,200
14	5	DH Phek	500		7 x 7			148,000	200	2,400,000	200,000	15,000	185	54,000	200	1,545,000		4,362,000
15	6	DH Tuensang	500		7 x 7			163,000	200	2,400,000	200,000	30,000	185	54,000				2,847,000
16	7	DH Wokha	250		7 x 7			158,000	100	1,450,000	140,000	25,000	120	37,200				1,810,200
17	8	DH Zunheboto	500		7 x 7			163,000	200	2,400,000	200,000	30,000	185	54,000				2,847,000
18	9	CHC Jalukie, Peren	250		7 x 7			146,000	100	1,450,000	140,000	13,000	120	37,200	100	1,254,000		3,040,200
19	10	CHC Noklak	250		7 x 7			163,000	100	1,450,000	140,000	50,000	120	37,200	100	1,295,000		3,155,200

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20	13	DH Mon	500		7 x 7			178,000	200	2,400,000	200,000	45,000	185	54,000				2,877,000
Grand Total (B)								**1,863,800**		**21,950,000**	**1,940,000**	**338,000**		**1,153,200**		**8,414,000**		**34,758,200**
21	1	CHC Pungro, Kiphire	90	UNICEF	5 x 5	1,114,708	175,310	203,000	25	Funded under N S D M A (yet to be installed)			35	15,000	63	1,045,000	60,000	2,613,018
22	2	DH Longleng	100	UNICEF	5 x 5	C O M P L E T E D							C O M P L E T E D					
23	3	CHC Tobu, Mon	150	UNICEF	5 x 5	938,194	175,310	183,000	40				35	30,000	63	1,028,000	78,000	2,432,504
24	4	CHC Meluri, Phek	100	UNICEF	5 x 5	1,086,726	175,310	168,000	25				35	15,000	63	997,000	170,000	2,612,036
25	5	CHC Bhandari, Wokha	90	UNICEF	5 x 5	983,652	175,310	158,000	25				35	15,000	63	993,000	46,000	2,370,962
26	6	CHC Aghunato, Zunheboto	150	UNICEF	5 x 5	1,049,021	175,310	163,000	40				35	30,000	63	1,000,000	54,000	2,471,331
27	7	CHC Phirsero, Phek	200	Turkey	7 x 6	1,386,516	175,310	158,000	50	660,000	100,000	25,000	35	30,000	63	995,000	230,000	3,759,826
Grand Total (C)						**6,558,817**	**1,051,860**	**1,033,000**		**660,000**	**100,000**	**25,000**		**135,000**		**6,058,000**	**638,000**	**16,259,677**
Grand Total (Rs) A + B + C																		**57,549,849**
Rupees Five Crore Seventy Five Lakh Forty Nine Thousand Eight Hundred Forty Nine																		

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B. PROPOSAL FOR PURCHASE OF 10 nos. of PATIENT TRANSPORT AMBULANCES.

In various review meetings, the District Task Force and District Health Authorities, have flagged the requirement for Patient Transport Ambulance with the objective to bridge the gap arising out of non-availability of transport vehicles to cater to the patients in the remote places, should there be increased number of COVID-19 positive cases, and also to be in a ready state to combat the 3rd wave of the pandemic.

At this juncture, the requirement of Patient Transport Ambulance far out-weighs the need for ALS & BLS Ambulances due to the reason as stated above and 24 BLS ambulances being donated by NHIDCL, MoRTH-GOI. These BLS ambulances have been deployed to strategic health facilities covering all the 12 districts of the State.

Since the implementation of NHM in the State, a total of 80 ambulances (Patient Transport Ambulance) have been supported with CAPEX as well as OPEX cost. However, the support for CAPEX has been withdrawn and only OPEX is now supported under NHM.

Out of the total patient transport ambulances available, 65 nos. are beyond 8 years. Due to the bad road condition and the terrain, these ambulances break down frequently and have become risky to transport patients. Out of these 65 old ambulances, 10 ambulances which are more than 10 years are being proposed for replacement with new patient transport ambulances, while replacement for the other old ambulances are being projected under NESIDS (FY 2021-22) under the project titled, "STRENGTHENING OF HEALTH SYSTEM FOR THE MANAGEMENT OF COVID-19 PANDEMIC WITH SPECIAL REFERENCE TO COMBAT THE IMPENDING 3rd WAVE OF THE PANDEMIC IN NAGALAND". The detail proposal along with fund requirement is given below:

Sl.	District	Name of the Health Unit	Type of Vehicle	Age of the ambulances (in years)	Remarks on requirement / replacement (Y/N)
1	Dimapur	CHC Dhansiripar	M/Gypsy	11	Yes
2	Kohima	PHC Botsa	M/Gypsy	12	Yes
3	Phek	PHC Zuketsa	M/Gypsy	11	Yes
4	Mokokchung	CHC Tuli	M/Gypsy	11	Yes
5	Mon	CHC Aboi	M/Gypsy	11	Yes
6	Longleng	CHC Tamlu	M/Gypsy	11	Yes
7	Peren	Athibung PHC	M/Gypsy	11	Yes
8	Tuensang	PHC Thonoknyu	M/Gypsy	11	Yes
9	Kiphire	PHC Seyochung	M/Gypsy	11	Yes
10	Wokha	CHC Bhandari	M/Gypsy	11	Yes

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Budget Proposed:

Sl	Particular	Qty	Unit price (Rs)	Total (Rs. in Lakh)
i	**Patient Transport Ambulance** (FORCE Trax cruiser ambulance BS 6P, PS, AC. ABS, TYPE B)	10	13,35,015.10	1,33,50,151.00
			Grand Total	**1,33,50,151.00**
	Rupees One Crore Thirty Three Lakh Fifty Thousand One Hundred Fifty One			

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GOVERNMENT OF ASSAM
TRANSFORMATION AND DEVELOPMENT DEPARTMENT
DISPUR, GUWAHATI

NO PDP(PP) 10/2021/40 Dated Dispur the 25th June/2021

From: Dr. K. K. Nath, ISS
Commissioner & Secretary
Transformation and Development Department

To: Shri Saurabh Endley
Joint Secretary
Ministry of DoNER, Govt. of India
Vigyan Bhawan Annexe
Maulana Azad Road,New Delhi-110011

Sub: Submission of Prioritized list of Projects under NESIDS 2021-22
Ref: MDoNER's letter No. NESIDS/6/2019-o/o DIR1(NLCPR) dated 16/03/2021

Sir,

In continuation of this office letter No. PDP(PP) 10/2021/12 dated 28/05/2021 & No. PDP(PP)20/2019/pt/104 dated 28/05/2021 , I am directed to forward here with Prioritized list of project proposals along with Concept Paper (16 projects) under NESIDS 2021-22 for favour of your kind consideration and approval/ sanction of projects.

Yours faithfully

Enclo: As stated above

(Dr. K. K. Nath)
Commissioner & Secretary
Transformation and Development Department

Memo NO PDP(PP) 10/2021/40 -A Dated Dispur the 25th June/2021

Copy to

1. PS to the Hon'ble Chief Minister, Assam, Dispur , for kind information of the Hon'ble Chief Minister.
2. PS to the Chief Secretary, Assam, Dispur for kind information of the Chief Secretary.
3. P.S. to the Additional Chief Secretary , Transformation and Development Department, Dispur for kind information to the Additional Chief Secretary.
4. Shri Ravindra Chaudhury, Director, Ministry of DoNER,East Block 10(Level-4), R.K. Puram, New Delhi-110066 for information and Necessary action.

Commissioner & Secretary
Transformation and Development Department

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No: Coord-14/20/2020-O/o US (NLCPR)
Government of India
Ministry of Development of North Eastern Region
*****

East Block 10, Level-IV,
Sector 1, R.K. Puram,
New Delhi-110022,
Dated: 29th June, 2020

OFFICE MEMORANDUM

Subject: Minutes of the 22nd Inter Ministerial Committee (IMC)/NESIDS Committee meeting held on 18.06.2020 at 10.30 a.m. in the Committee Room (Room No. 243-A), Ministry of DoNER, Vigyan Bhawan Annexe, New Delhi under the chairmanship of Secretary, Ministry of DoNER.

The undersigned is directed to forward herewith minutes, as approved by the Competent Authority, of the 22nd Meeting of the Inter Ministerial Committee (IMC)/NESIDS Committee on North East Special Infrastructure Development Scheme (NESIDS) held under the Chairmanship of Secretary, MDoNER on 18.06.2020 at 10.30 a.m., in the Committee Room (Room No. 243-A), Ministry of DoNER at Vigyan Bhawan Annexe, New Delhi, for information and necessary action.

(A.K. Pandey)
Under Secretary to the Government of India
29.06.2020
Email:- akhilesh.pandey13@nic.in

Encl. As above

To

i Chief Executive Officer, NITI Aayog, Yojana Bhawan, Sansad Marg, New Delhi-110001
ii Secretary (Home), Ministry of Home Affairs, North Block, New Delhi-110001.
iii. Secretary (Expenditure), Department of Expenditure, Ministry of Finance, North Block, New Delhi-110001.
iv. Foreign Secretary, Ministry of External Affairs, South Block, New Delhi-110011.
v. Secretary, Department of Health & Family Welfare, Ministry of Health and Family Welfare, C-Wing, Nirman Bhawan, New Delhi-110001.
vi. Secretary, Ministry of Road Transport and Highways, Transport Bhawan, Sansad Marg, New Delhi-110001.
vii Secretary, Department of Drinking Water and Sanitation, Ministry of Jal Shakti, 9th Floor, Paryavarn Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.
viii Secretary, Ministry of Power, Shram Shakti Bhawan, New Delhi-110001
ix. Joint Secretary & Financial Adviser, Ministry of DoNER.
x Joint Secretary (NLCPR), Ministry of DoNER.

Copy to:

Chief Secretaries of Assam, Manipur, Meghalaya, Nagaland, Sikkim and Tripura.

Copy also to:-

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i. OSD to Hon'ble Minister of State (I/C), MDoNER.
ii. Superintending Engineer (GSM), MDoNER.
iii. Director(RC)/Director(BNP)/OS(IFD), MDoNER.
iv. Sr. Technical Director (NIC), MDoNER.
v. PPS to Secretary, MDoNER.
vi Web Manager, MDoNER.

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Minutes of the 22nd meeting of Inter Ministerial Committee (IMC)/NESIDS Committee held on 18.06.2020 at 10:30 a.m. in the Committee Room (Room No. 243-A), Vigyan Bhawan Annexe, New Delhi under the chairmanship of Secretary, Ministry of DoNER.

1. The 22nd meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee was held on 18.06.2020 at 10.30 a.m. to discuss:
   a. the proposals received from the State Governments of Assam and Nagaland related to **Strengthening Health Infrastructure for Fighting Corona Virus (COVID 19)**, for selection & sanction;
   b. Project proposals received from State Governments of Meghalaya, Sikkim and Tripura for selection; and
   c. One project of State Government of Manipur, for condonation of delay.

Chief Secretaries of Assam, Manipur, Meghalaya, Nagaland, Sikkim and Tripura co-chaired the meeting. List of participants is at **Annexure I.**

2. **Project Proposals for Strengthening Health Infrastructure for Fighting Corona Virus (COVID 19) for selection and sanction.**

2.1 At the outset the Committee was informed that for the COVID 19 project proposals received from Assam and Nagaland, common issues addressed and decided during 21st Meeting of IMC/NESIDS Committee (in which proposals for Strengthening Health Infrastructure for Fighting Corona Virus (COVID 19) of Arunachal Pradesh, Meghalaya and Mizoram were recommended for selection and sanction), would apply to these proposals as well. Since, the COVID 19 projects have to be dealt with urgency, certain relaxations in the normal procedures and timelines for selection, sanction, release of funds etc. were recommended in 21st meeting of IMC/NESIDS Committee. Consideration of proposal of Assam and Nagaland for combating COVID 19 would be subject to same relaxations and terms & conditions of AFS, as have been agreed to by IFD and approved by the competent authority (Hon'ble Minister, Ministry of DoNER) as in case of Arunachal Pradesh, Meghalaya and Mizoram. These relaxations are summarised below:-

i. Selection and sanction would be done in a single stage process, i.e. IMC/NESIDS Committee would consider, the proposal for selection as well as sanction together based on the concept note, which contain all necessary details.
ii. The requirement for a formal DPR and its vetting by institute like NIT/IITs etc. may not be insisted upon. However, the project proposals have to be vetted by

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the State Health Department experts and should be supported by the M/o Health and Family Welfare.

iii. Condition of project to be located at one place may not be insisted upon. Upgradation of health infrastructure at multiple locations and facilities may be permitted, as this will facilitate consideration of comprehensive proposal of the State rather than same being broken into multiple projects at different locations.

iv. Formal meetings of State Level Empowered Committee (SLEC) may be dispensed with. However, Chief Secretary (CS) may obtain views/comments of any other officer of the State Government or any other expert, wherever and whenever required. Further, Principal Secretary in charge of Health, Finance and Planning, and a few other concerned officers of the State Govt. who are generally part of SLEC, have also been/will be invited / associated with IMC/ NESIDS Committee meeting along with Chief Secretaries.

v. Instead of Rs.10 lakh token amount release, 40% of the sanctioned cost may be released along with issue of AFS, and balance 60% upon receipt of the work order for all the items as per AFS and Utilization Certificate (UC) for the 40% released amount (subject to availability of budget provisions and instructions of DoE on QEP/MEP).

vi. In some cases, urgency for project implementation may lead to situations where the State Government might have already initiated some immediate steps for project implementation, like having already floated the tenders, etc. As a one-time measure, only for such urgent projects, it would be permissible to fund such projects under NESIDS, even if such steps have already been taken by the State Government. However, standard conditions that no work would be done or items procured before the issuance of sanction shall be insisted upon.

vii. In addition to physical Health Infrastructure related items, funding is also proposed for equipment like PPEs, Ventilators, etc., as these are part of health infrastructure, and are the core and most essential/critical items for fighting COVID19.

3. The agenda notes, along with the concept papers were circulated twice to all the Members of the Committee and sectoral line Ministry (which is Ministry of Health and Family Welfare in case of Health projects) – once at the time of receipt after initial evaluation by the Programme division, and subsequently as Final Agenda Notes, formalized after comments received from M/o H&FW, NITI Aayog, IFD MDoNER, and Technical Wing MDoNER.

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4. Committee while agreeing to and recommending the above relaxations observed as follows:

4.1 The relaxations, as stated above would be applicable only for COVID 19 related proposals as a one-time measure.

4.2 These are only for urgent nature health infrastructure proposals required for fighting COVID 19 which can be undertaken/ completed in a short duration, and not for normal health infrastructure proposals which, though covered under the guidelines, have to follow the normal laid down procedures. Hence, the approved activities, including procurement of various equipment/ items, infrastructure related works etc. must be completed within the shortest possible time, within a maximum of six months. Hence, States may have to separate out proposals of urgent nature for fighting COVID and normal health infrastructure proposals. However, even for the second type of proposal, MDoNER may expedite the process of approvals and convene early meeting of IMC/ NESIDS Committee to consider all such proposals in a strict time frame after obtaining comments from stakeholders especially M/o H&FW,NITI Aayog, IFD MDoNER, and Technical Wing, MDoNER (for civil works related items only).

4.3 State Government will, in due course, furnish the exact details of various activities undertaken, type and quantities of equipments/ items purchased, infrastructural works undertaken, assets created etc. with funding received from all the sources for fighting COVID 19 since January 2020, including from M/o H&FW, NEC, MDoNER, States own resources and any other source (including assistance received in kind) and confirm that there is no duplication in terms of funding same item and / or quantities of same item from different sources of funding.

4.4 Various works, procurement of equipment etc. will be made as per laid down procedures of the State Government, for undertaking such works / procurement of such items, with the approval of the competent authority of the State Government as per delegation of powers.

4.5 State government shall put in place a robust and strict monitoring mechanism for ensuring time bound completion of various activities and ensuring quality controls of highest standard.

4.6 The reasonableness of cost estimates and specifications of various Health related equipment to be procured etc. shall be vetted and certified by Principal Secretary (Health) of State Government and other health experts of State Government and countersigned by the Chief Secretary of the State. Similarly, cost estimates of civil/

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electrical items etc., wherever applicable, shall be vetted by State Principal Secretary (PWD) and other Technical experts of PWD.

4.7 Utilisation Certificates shall be signed by Principal Secretary (Health) and Principal Secretary (Planning) of State Government and countersigned by the Chief Secretary of the State.

4.8 MDoNER shall be free to get the pace of implementation / progress of works / procurement and other related aspects, including those relating to quality, inspected/ checked by its officers or officers of M/o H&FW or any other authorised officers.

4.9 State Government shall keep a proper record of various items procured and consumed, assets created etc. duly authenticated by authorised officers of the State government.

4.10 Only those items/part of items should be funded under NESIDS, which are not/will not be funded by M/o H&FW under the Central Package for COVID-19, and which are not being funded through funds released for the fight against COVID-19 by NEC, and it is to be ensured that there is no duplication. The State Govt. will have to submit a certificate in this regard. In case the funds given by M/o H&FW and NEC are insufficient for the full quantity of some item/items that the State Government wants to procure for the fight against COVID-19, then they would be allowed to buy part of the quantity of those item/items from the M/o H&FW funds, NEC funds or any other source and balance quantity from NESIDS funds, provided that they give a clear breakup/segregation of quantities of the same item/items procured through the different sources of funding. They would also have to give a non-duplication certificate for the quantity of those items funded by NESIDS.

5. The Committee was informed that all of the above proposed relaxations recommended by the Committee may not apply to all of the proposals. However, these one-time relaxations, meant only for urgent COVID-19 related proposals, are being recommended as an overall enabling list, for approval of Competent Authority (Hon'ble Minister, Ministry of DoNER) so that each of the proposals can be considered by MDoNER within the overall framework of these relaxations.

6. The representative of NITI Aayog, who participated in the meeting through VC, stated that while NITI Aayog have supported the COVID 19 related proposals of Assam and Nagaland placed before the committee, the State Governments need to address concerns regarding availability of skilled health professionals like doctors, technicians and nurses before procuring the material for these project proposals. The Committee

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noted that this is an important issue, as the State Governments need to ensure that the infrastructure created through these projects must be put to use immediately, and should not lie unutilized on account of lack of adequate and trained staff. The response of the State Governments on this issue is included in the discussions of their individual projects (paras 8.6 and 9.7 below). The Chief Secretaries of concerned states assured the committee that these concerns will be duly taken care of by the State Government.

7. Thereafter, the committee took up each of the projects for detailed discussion and recommendations as detailed below:

8. Project proposal of Government of Assam - Proposal for "Upgradation of 24 numbers of existing district hospitals for setting up of ICUs for treatment of COVID-19 patients in Assam" under NESIDS.

8.1 The Chief Secretary, Assam, along with Officials of Health, Finance and Planning Department of State Govt. participated in the meeting through Video Conferencing (VC). The State Govt. gave a detailed presentation/explaining the salient features of the proposal, and justification for the same during the meeting and informed that the cost of the proposal of Upgradation of 24 district hospitals for setting up 414 ICUs for **treatment of COVID-19 patients is Rs.194.35 crore. The Committee was also informed that the total project cost is based on DPR already prepared by the State Government. The Committee was also informed that the Overall project has two components for a total estimated cost of Rs.395.15 Cr. The first component for Rs. 194.35 Cr is being placed before the Committee for funding under NESIDS, while the second component of Rs.198.79 Cr, which is mainly for the construction of residential buildings will be taken care of by the State Govt.**

8.2 The project proposal of Assam was forwarded to Ministry of Health & Family for comments. MoH&FW recommended the project at a cost of Rs. 97.49 crore.

8.3 In the meeting, Chief Secretary explained in detail that the State Govt. has done detailed appraisal, on the basis of which the complete project worth Rs. 194.35 crore, with all components, has been placed before the Committee, with a request for sanctioning the entire project as a whole. On this, Committee, after detailed discussion, stated that for COVID 19 related proposals, Committee will go by the advice of M/o H&FW. Hence, the committee recommended that presently, only components of the project and their cost as vetted by the M/o H&FW, may be recommended for selection and sanction. The State Government, if it so desires, may submit supplementary project proposal in respect of the left out components for consideration for selection and

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sanction as per the standard procedure for COVID 19 related proposals. However, consideration of the supplementary proposal would be contingent upon examination by and advice/recommendations of the M/o H&FW, and sanction would be limited to the balance Normative Allocation available for the State of Assam under NESIDS (the total tentative Normative Allocation for FY 2020-21 for Assam under NESIDS being Rs.148.62 crore). This was agreed to by the Chief Secretary.

8.4 During the meeting, it was assured by the representative of Govt. of Assam that State Government would also furnish a non-duplication certificate for the quantity of those items funded by NESIDS and Cost Vetting Certificate by Principal Secretary, Health of State Govt.

8.5 The State Govt. further confirmed that money sanctioned under the proposal would be solely used for COVID-19 related activities and would be utilized as early as possible but not later than within a maximum time span of six months from the date of sanction. Various queries raised/additional information sought by the Committee members were duly responded to by the State Government officers to the satisfaction of the members.

8.6 Principal Secretary Health, Govt. of Assam, further clarified that the State had adequate number of trained doctors, nurses and other medical and health professionals, such that the infrastructure created through the extant proposal would be adequately manned and immediately put to use.

8.7 The following recommendations of M/o H&FW were also deliberated upon during the meeting:

i. CSSD, mechanized laundry and ICUs to be created as per GoI guidelines.
ii. Availability of requisite HR and infrastructure for equipments and furniture to be ensured.
iii. Procurement of equipment and furniture is done through open transparent process.
iv. The equipment will be procured on the basis of gap analysis done by the State Government and the same will be installed at respective locations preferably within 3-4 months from release of funds under NESIDS.

The Committee stressed upon the importance of these issues to be ensured by the State Government during execution of the project. The representatives of the State Government assured that the State Government would ensure compliance of these

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directives. Comments/observations of IFD were duly responded to by the M/o H&FW and the State Govt.

8.8 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) and copy of PPT by the State Govt. are at **Annexure IIA and IIB** respectively.

8.9 The Committee noted that M/o H&FW and NITI Aayog have supported the proposal.

8.10 **After due consideration of the proposal of the State governments and detailed deliberations, the Committee recommended the project proposal of State Govt. of Assam for selection and sanction at the cost of Rs. 97.49 crore, subject to approval of the proposed relaxations and the proposal by the Competent Authority (Hon'ble Minister, MDoNER) as per following break up:-**

Sl. No	Particulars	Quantity	Rate	Amount (Rs. in crore)
1	ICU beds (includes infrastructure furniture, equipment(excluding ventilators), MGPS, AHU, multi para-monitors, Defibrillator, etc.	414	@14 lakh per bed	57.96
2	ETP/STP	24	@25 lakh per hospital	6.00
3	Mechanized laundry	24	@22 lakh per hospital	5.28
4	Generators, UPS, incinerators & electrical connections	24	@24 lakh per hospital	6.00
5	CSSD	24	@24 lakh per hospital	6.00
	Sub Total			**81.24**
6	20% Miscellaneous cost including GST			16.25
	Total			**97.49**

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9. Project/proposal of Government of Nagaland - Proposal for "Strengthening Health Infrastructure for Comprehensive response to possible Outbreak of COVID-19 in Nagaland" under NESIDS.

9.1 The Chief Secretary, Nagaland along with other concerned Officials of Health, Finance and Planning Department of State Govt. participated in the meeting through Video Conference. The representatives of the State Government briefed the Committee about present situation of COVID-19 and immediately required infrastructure/ machinery& equipment, and related items, in preparation for the pandemic COVID-19 situation in the state of Nagaland.

9.2 It was briefed to the Committee that Govt. of Nagaland proposed the project with estimated cost of Rs.33.30 crore which was examined by the MoH&FW. MoH&FW initially recommended the cost of the project at Rs. 8.08 crore without supporting the 2 components of "Setting up of a Cardiac Centre at CIHSR, Dimapur" and "Strengthening Non-COVID-19 Hospitals for Secondary Services" requiring further information/justification from State Govt. submitted detailed clarification on the comments of M/o H&FW and revised the cost of proposal to Rs. 29.78 crore. The clarification by Govt of Nagaland, were further examined by MoH&FW, and they finally recommended the proposal at cost of Rs. 17.96 crore, while giving a component-wise breakup of the items recommended.

9.3 In the Meeting, Chief Secretary, Nagaland accepted the MoH&FW recommended components and cost of all components, except for the cost of "ALS & BLS Ambulance", the cost of which had been taken by the State Government from the GeM portal of Govt. of India. On this, representative of M/o H&FW clarified that if State govt's rates of Ambulances are quoted from GeM portal, then actual expenditure on Ambulances may be considered.

9.4 After due deliberation, it was decided to accept recommendations of MoH&FW and at present the project may be recommended for selection and sanction at the cost finally vetted by M/o H&FW (including cost of ambulances). If at the time of procurement of ambulances through GeM portal, the cost of ambulances is found to be at variance from the approved cost, MDoNER may revise the sanctioned cost of the project based on the actual cost of ALS and BLS Ambulances, arrived at during procurement from the GeM portal and matter need not be placed before NESIDS committee again for revision of the cost on account of this factor. It was reiterated that this cost revision would be considered only for rates taken from, and if procurement is done from the GeM portal.

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9.5 During the meeting, it was assured by the representative of Govt. of Nagaland that State Government would also furnish a non-duplication certificate for the quantity of those items funded by NESIDS and Cost Vetting Certificate by Principal Secretary, Health of State Govt.

9.6 The State Govt. further confirmed that money sanctioned under the proposal would be solely used for COVID-19 related activities and would be utilized as early as possible but not later than within a maximum time span of six months from the date of sanction. Various queries raised/additional information sought by the Committee members were duly responded to by the State Government officers to the satisfaction of the members.

9.7 On the concern of NITI Aayog representative on availability of skilled health professionals like doctors, technicians and nurses before procuring the material for these project proposals, representatives of State Governments assured the Committee that the State Govt. would ensure adequate availability of health professionals, such that the entire infrastructure created through the extant project is put to use immediately.

9.8 The following recommendations of M/o H&FW were also deliberated upon during the meeting:

i. Air handling unit is suggested instead of split air conditioner
ii. Written commitments of the Cardiologist from CMC Vellore and St. Stephen's Hospital, Delhi need to be taken and they should join at CIHSR, Dimapur before procurement process is initiated. In case the cardiologist does not join, procurement of equipment should be deferred till a cardiologist joins. Regarding ventilator with proposed cost of Rs. 10 lakhs, since the Ministry is procuring ventilators centrally, the State Govt. may be advised to send its requirement to this Ministry so that the same can be provided by the Ministry. Regarding Cardiac Monitoring Equipment, State may provide details of the proposed equipment. Further, Air Handling Unit is suggested instead of Central Air Conditioner.
iii. Equipment items should be procured through open transparent process.
iv. Procurement and installation of equipment should be completed preferably within 3-4 months from release of funds by MDoNER.
v. The state government should ensure availability of requisite HR and infrastructure for the equipments/ ambulances to be procured.

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The Committee stressed upon the importance of these issues to be ensured by the State Government during execution of the project. The representatives of the State Government assured that the State Government would ensure compliance of these directives. The comments/observations raised by IFD were duly responded to by the State Government and M/o H&FW.

9.9 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) and copy of PPT by State Govt. are at **Annexure IIIA and IIIB** respectively.

9.10 The Committee noted that M/o H&FW and NITI Aayog have supported the proposal.

9.11 **After due consideration of the proposal of the State governments and detailed deliberations, the Committee recommended the project proposal of State Govt. of Nagaland for selection and sanction at the cost of Rs. 17.96 crore, subject to approval of the proposed relaxations and the proposal by the Competent Authority (Hon'ble Minister, MDoNER) as per following break up:-**

S. No	Particulars	Nos.	Rate	Amount (in Rs.)
i.	Strengthening ICU facilities for COVID-19	11 Hospitals		270.32
ii.	Setting up of Blood Banks at the district hospitals of Tuensang, Kiphire, Mon and Phek	4 Hospitals	@Rs 41.95 lakh	167.80
iii.	Oxygen generation plant	4	@ Rs. 50 Lakh	200.00
iv.	Setting up of a Cardiac Centre at CIHSR, Dimapur	1		648.50
v.	ALS Ambulance	11	@ Rs. 29 lakhs	319.00
vi.	BLS Ambulance	10	@ Rs.19 lakhs	190.00
	G. Total (in Lakhs)			**1795.62**

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SIKKIM

10. Proposal "Upgradation and Re-modelling and Strengthening of existing Transmission & Distribution System of Soreng, Daramdin and it's surrounding areas in West Sikkim" at an estimated cost of Rs. 20.50 crore.

10.1 The representative of the State Govt. made a detailed presentation on the proposal before the Committee wherein the representatives of the State Govt. briefed that the instant project "Upgradation and Re-modelling and Strengthening of existing Transmission & Distribution System of Soreng, Daramdin and it's surrounding areas"has been proposed in West District of Sikkim. The demand of power in these regions have raised manifold and this has led to tremendous burden on the existing T&D infrastructure leading to frequent outages. The proposed work would reduce power outages, improve voltage profile, scope for future growth perspective, ease and safety of maintenance and enhance the aesthetic and beautiful look of urban areas in line with State Government's beautification mission and boost Swadesh Bhraman (Domestic tourism). It was also stated that the proposal falls under West District which is an Aspirational District of the State.

10.2 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) and copy of PPT by the State Govt. are at **Annexure IVA and IVB** respectively.

10.3 After due deliberations, the Committee recommended the project "Upgradation and Re-modelling and Strengthening of existing Transmission & Distribution System of Soreng, Daramdin and it's surrounding areas in West Sikkim" for Selection at an estimated cost of Rs. 20.50 crore.

11. Proposal "Augmentation of Gyalshing Water Supply Scheme in West Sikkim" at an estimated cost of Rs. 80.06 crore.

11.1 The Committee noted that the State Govt. was left with the balance Normative Allocation under NESIDS for FY 2020-21 of Rs. 14.49 crore only (after selection of the above project). Hence, the cost of the proposal was much higher than the balance Normative Allocation. Representatives of the State Government stated that this was a very important project and asked if it was possible to select the project by taking into consideration Normative Allocation under NESIDS for the next year, i.e., FY 2021-22. It

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was clarified to the State Government that this was not possible, especially since, as on date, the validity of sanction of the NESID Scheme was upto 31.03.2021 only. Hence, it was decided to defer the proposal for selection and the State Government was asked to submit a fresh proposal, which is complete in itself, upto their available entitlement.

11.2 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) is at Annexure V.

11.3 In view of the above, the proposal was not taken up presentation by the state Govt, and for detailed discussion by the committee.

Meghalaya

12. It was noted by the Committee that while the available Normative Allocation under NESIDS for FY 2020-21 for the State of Meghalaya was Rs. 47.54 crore, two proposals of the State Government, costing Rs. 28.00 crore and Rs 30.00 crore, had been put up for consideration. These proposals are:

i. **"Greater Baghmara Water Supply Scheme (Phase-I)" with estimated cost of Rs. 30.00 crore.**
ii. **"Construction/improvement of Dawki - Bholaganj road including Construction of missing links including bridges" with estimated cost of Rs.28.00 crore.**

13. Proposal "Greater Baghmara Water Supply Scheme (Phase-I)" with estimated cost of Rs. 30.00 crore.

13.1 The Committee noted that from the documents submitted by the State Government for this proposal, it was clear that the project could not be made functional on it's own, and that the Phase – II of the project also needed to be sanctioned, completed and operationalised for the components of Phase -I to be operationalised. Therefore, the Committee advised the State Govt. to take both the Phases of "**Greater Baghmara Water Supply Scheme**" in a single proposal, which would be complete in itself. The State Govt. agreed to the suggestion of the Committee and agreed to drop the other proposal "**Construction/improvement of Dawki - Bholaganj road" in view of limited availability of the normative allocation.** It was further decided that the State Government would henceforth deal with the composite proposal as a whole, and make a DPR recasting the project components and combining both suggested Phases into one, for the SLEC and Sanction stages of the project. Whatever the total cost of the project as

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determined through the DPR, may be considered by the SLEC, and placed before the NESIDS committee for sanction, but the funding by MDoNER under NESIDS will be limited to the available normative allocation i.e. Rs 47.54 cr, or the actual project cost, whichever is less. In case the total project cost is higher than Rs47.54 Cr, the balance, will have to be borne by the state Govt from out of its own resources.Thereafter, the State Govt. made a brief presentation on the proposal of "Greater Baghmara Water Supply Scheme"

13.2 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) and copy of PPT by the State Govt. are at **Annexure VIA and VIB** respectively.

13.3 After detailed discussions, the Committee recommended the project "Greater Baghmara Water Supply Scheme" for Selection with the components and cost to be recast on the above lines, subject to the condition that funding from the Ministry of DoNER would be limited to the State's balance Normative Allocation of Rs. 47.54 crore only and funds over and above the same would be arranged by the State Govt. from their own resources.

14. "Construction/improvement of Dawki - Bholaganj road including Construction of missing links including bridges" with estimated cost of Rs.28.00 crore.

14.1 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) is at **Annexure VII.**

14.2 As indicated above, in view of non-availability of the normative allocation, **the project "Construction/improvement of Dawki - Bholaganj road including Construction of missing links including bridges" for selection was not taken up by the committee for detailed discussion.**

<u>Tripura</u>

15. Proposal "Conversion of roads of PWD into all weather road by providing Paver Block under West Tripura, Shepahijala, Gomati & South Tripura District" with an estimated cost of Rs.89.48 crore

15.1 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) is at **Annexure VIII.**

15.2 The Committee noted that the project had been carved out by taking a small portion of a larger proposal costing Rs. 803.12 crore involving 432.29 kms. The cost of

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the project as placed before the Committee was also in excess to the Normative Allocation for the State under NESIDS for FY 2020-21. The representatives of the State Government informed that they were willing to reduce the scope of the project further to bring the project cost within the Normative Allocation. The Committee noted that even than the project will be at multiple locations, and prima facia does not fit into the framework of NESIDS guidelines.

15.3 It was explained to the State Government that under NESIDS, the norm was to take up infrastructure projects such that identifiable infrastructure is created, with targeted benefits, at a single location, like a road form one point to another. However, as per the documents presented to the Committee for the extant proposal, the project consists of providing paver blocks on existing roads at many locations. There was also a doubt as to whether Paver-Blocks were the correct option for such locations and roads, and this viewpoint was also endorsed by representative from Ministry of Road Transport and Highways (MoRTH). The Committee therefore advised the State Government to consult Ministry of Rural Development for such proposals, and to ask them if this proposal could be taken up under their schemes/programmes. The Committee further asked the State Government to submit fresh proposals under NESIDS, which were more suited in terms of scope for funding as per guidelines of the Scheme.

15.4 After detailed deliberations, the Committee did not recommended the proposal "Conversion of roads of PWD into all-weather road by providing Paver Block under West Tripura, Shepahijala, Gomati & South Tripura District" for selection.

Manipur

16. Project "Upgradation of Moirang Sendra Road upto Sendra Hillock and Road from Moirang Sendra Road to Omba Hillock and Keina Bazar on MoirangKhunou to ThangaKeibul Road-8.50 km for promoting Tourism Bishnupur" in Manipur for Condonation of delay in issue of award of work

16.1 Copy of Final Checklist cum Agenda Notes, as circulated/placed before the committee (along with all its enclosures) and copy of PPT by the State Govt are at **Annexure IXA and IXB** respectively.

16.2 The project was recommended for sanction at a cost of Rs. 21.65 crore by the 15th IMC/NESIDS Committee meeting held on 18.06.2019.Accordingly the Administrative and Financial Sanction (AFS) for an amount of Rs. 2032.38 lakh and token amount of

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Rs. 10.00 lakh for the project was issued vide this Ministry's letter dated 29th July, 2919.The time limit for issue of work order was 29.01.2020. However, State Government awarded the work and issued Notice to proceed with work (NTPW) on 11.03.2020. The State Government requested for condonation of delay in award of work as the work has already been awarded now.

16.3 Considering the fact that since the work has already been awarded by the State Govt. and the delay is only about 41 days, **the Committee recommended to condone the delay in award of work and to process the case for release of subsequent installment.**

17. With the above sanctions/selections, the position of Normative allocation/ available allocation of the NER States under NESIDS for FY 2020-21 reflects as under:

(Rs. in crore)

States	Normative Allocation for F.Y. 2020-21	Project sanctioned		Project selected but not yet sanctioned		Available allocation
I	II	(No) III	(Cost) IV	(No) V	(Cost) VI	VII (II-IV-VI)
Arunachal Pradesh	69.87	1	51.69	0	0	18.18
Assam	148.62	1	97.49	0	0	51.13
Manipur	53.40	0	0	1	53.40	0
Meghalaya	57.56	1	10.02	1	47.54	0
Mizoram	55.75	1	16.16	0	0	39.59
Nagaland	54.46	1	17.96	0	0	36.5
Sikkim	34.99	0	0	1	20.50	14.49
Tripura	60.35	0	0	0	0	60.35
Total	535.00	5	193.32	3	121.44	220.24

18. The meeting ended with a vote of thanks to the Chairman and all the participants.

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Annexure-I

List of Participants

Sl. No.	Organisation	Officers attended
1.	Members of Inter Ministerial Committee/NESIDS Committee	1.Dr. Inder Jit Singh, Secretary, M/o DoNER (in chair)
		2.Shri Kumar Sanjay Krishna, Chief Secretary, Govt. of Assam, on VC (Co-chair)
		3.Dr. J. Suresh Babu, Chief Secretary, Govt. of Manipur, on VC (Co-chair)
		4. Shri M.S. Rao, Chief Secretary, Govt. of Meghalaya, on VC (Co-chair)
		5. Shri Temjen Toy, Chief Secretary, Govt. of Nagaland, on VC (Co-chair)
		6. Shri S.C. Gupta, Chief Secretary, Govt. of Sikkim, on VC (Co-chair)
		7. Shri Manoj Kumar, Chief Secretary, Govt. of Tripura, on VC (Co-chair)
		8. Shri S.S. Dubey, JS&FA, M/oDoNER, on VC
		9. Shri Saurabh Endley, JS, M/o DoNER
2.	Other Members/Special Invitees from Line Ministries/NITI Aayog	10. Shri T. Kabilan, Director (NE), NITI Aayog on VC
		11. Shri. Col VKS Tomar, OSD(BM) Ministry of External Affairs, GoI, on VC
		12. Shri Shribash Mandal (Chief Engineer), Ministry of Road Transport and Highways, GoI, on VC
		13. Shri Sunil Gautam, Director, Ministry of Power, GoI, on VC
		14.Shri Elangbam Robert Singh, Director, Ministry of Health & Family Welfare, GoI, on VC
		15. Shri R.K. Pandey, Deputy Secretary (NE), Ministry of Home Affairs, on VC
3.	Government of Assam	16. Shri Samir Kumar Sinha, Principal Secretary, T&DD, Finance and Health, on VC
		17. Shri Nitin Khade, C&S T&DD, on VC
		18. Dr. K.K. Nath, Secy. T & D Deptt., on VC
		19. Shri Khanindra Choudhury, Addl. Secy. H&FW, on VC
		20. Dr. Anup Kumar Barman, DME, H&FW, on VC
		21. Shri Altafuddin Ahmad, CE(B) PWD, on VC

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		22. Shri Jyotish Kr. Samah, OSD to PW(BNH), on VC
		23. Shri Ravi Chakrabarty, C&SS, PWD (B&NH), on VC
		24. Smt. Banti Devi, Director, T&D Deptt., on VC
4.	Government of Nagaland	25. Shri J. Alam, ACS & Development Commissioner (Planning) , on VC
		26. Shri Rovilatou Mor, Commissioner & Secretary (PWD), on VC
		27. Shri V. Kezo, Special Secretary (Finance) , on VC
		28. Smt. Ahola Those, Commissioner & Secretary (Health), on VC
		29. Dr. Kika Longkumer, Dy. Director (Health) , on VC
		30. Dr. Manyau, Dy. Director (Health) , on VC
		31. Shri Puni, Programme Manager (Health) , on VC
5.	Government of Meghalaya	32.Dr. Vijay Kumar. D, Commissioner & Secretary (Planning), on VC
		33. Shri R. Lyngdoh, OSD & ex-Officio JS (Planning), on VC
		34. Shri K.D. Talukdar, Chief Engineer, PHE, on VC
		35. Shri L.D. Suchiang, Chief Engineer, PWD (Roads), Government of Meghalaya, on VC
6.	Government of Sikkim	36. Shri A K Yadav, ACS Power Department, on VC
		37.Shri V B Pathak, ACS cum Development Commissioner, on VC
		38. Shri R Thapa, PCE Power Department, on VC
		39. Shri G Chettri, CE, Power Department, on VC
		40. Shri B Prasad, Secretary, PHE Department, on VC
7.	Government of Tripura	41. Shri Shashi Ranjan Kumar, Principal Secretary (PWD), on VC
		42. Shri Dipak Chandra Das, Chief Engineer, PWD (R&B), on VC
		43. Shri Kamal Sarkar, Addl. Chief Engineer, PWD(R&B), on VC
		44. Shri A. Roy, Secretary (Planning), on VC
8.	Government of Manipur	45. Dr. Rajesh Kumar, Additional Chief Secretary (Planning), on VC
		46. Shri R.K. Dinesh Singh, Commissioner (Works),on VC
		47. Shri K.H. Temba Singh, Chief Engineer, PWD, on VC
		48. Dr. Th Munindrao Singh, Director (Planning), on VC

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		49. Dr. R.K. Radhesana Devi, Joint Director (Planning), on VC
9.	Ministry of DoNER, GoI	50. Shri Ravindra Choudhary, Director
		51. Shri B.N. Prasad, Director
		52. Shri Dibyojit Dutta, Sr. Technical Director (NIC)
		53. Shri G.S. Maheshwal, SE, TW
		54. Shri Purushottam Verma, DS (IFD)
		55. Shri A.K. Pandey, US
		56. Ms. Kusum Singh, SSO
		57. Shri Mahesh Chander, ASO
		58. Shri Rahul Gupta, ASO

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NESIDS-16012(11)/2/2020-O/o DIR1 (NLCPR)
70133/2020/O/o DIR1 (NLCPR)

No: NESIDS-16012(11)/2/2020-O/o Dir (NLCPR)
Government of India
Ministry of Development of North Eastern Region
*****

East Block - 10,
Level-IV, R. K. Puram,
New Delhi-110066
Dated: 02.07.2020

To

The Chief Secretary
Government of Nagaland,
Kohima, **Nagaland**.

Subject: Administrative and Financial Sanction (AFS) under North East Special Infrastructure Development Scheme (NESIDS) for the project "Strengthening Health Infrastructure for Comprehensive response to possible Outbreak of COVID19 in Nagaland"

Sir,

I am directed to convey Administrative and Financial Sanction of Government of India to an amount of **Rs. 1795.62 lakh (Rupees Seventeen Crore Ninety five Lakh and Sixty two Thousand only) as Central share** for the above mentioned project against the vetted cost of Rs. 1795.62 lakh, balance to be borne by State Government, as per detailed break up given below subject to compliance of the conditions mentioned in Para 2 below:-

(Rs. in lakh)

S. No	Particulars	Nos.	Rate	Amount (in Rs.)
i.	Strengthening ICU facilities for COVID-19	11 Hospitals		270.32
ii.	Setting up of Blood Banks at the district hospitals of Tuensang, Kiphire, Mon and Phek	4 Hospitals	@Rs 41.95 lakh	167.80
iii.	Oxygen generation plant	4	@ Rs. 50 Lakh	200.00
iv.	Setting up of a Cardiac Centre at CIHSR, Dimapur	1		648.50
v.	ALS Ambulance	11	@ Rs. 29 lakhs	319.00
vi.	BLS Ambulance	10	@ Rs.19 lakhs	190.00
	G. Total (in Lakhs)			**1795.62**

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2. Approval of Ministry of Development of North Eastern Region (M/o DoNER) is subject to following conditions:-

(i) The approved activities, including procurement of various hospital equipment/items etc. must be completed within the shortest possible time, within a maximum of six months, so that these are put to effective use for COVID 19 related activities.

(ii) Various works, procurement of equipment etc. will be made as per laid down procedures of the State Government, for undertaking such works / procurement of such items, with the approval of the competent authority of the State Government as per delegation of powers, through an objective, transparent and open competitive bidding/ tender system as per extant guidelines of the State Government. Further, State Government may consider procuring these equipments/ items from the GeM portal of the Government of India, D/o. Commerce and Industry to the extent of their availability on this portal, after due observance of the laid down procedures/ guidelines of Government of India for procurement through GeM portal issued from time to time.

(iii) The State Government will constitute an "Expert Group", chaired by Principal Secretary (Health), and having other experts of State Health Department, representatives of M/o Health and Family Welfare (MoHFW) or ICMR or other Central Health organisations located in NER, representatives of state Planning and Finance departments, and other members, as considered necessary by the Chief Secretary, to finalise/vet the detailed list of items/equipments to be procured, their quantities, specifications, qualitative parameters, need and justification, reasonableness of cost estimates and such other related matters, within the broad framework of AFS, and the total approved cost.

(iv)The cost estimates of public works (civil/electrical etc.), if any, will be prepared as per latest SOR of the State, vetted by concerned officers of PWD, and these works will be executed as per laid down procedure and guidelines through open competitive bidding/tender system. Principal Secretary (PWD) would monitor these works.

(v) State Government, while procuring the equipments, should also insist on appropriate guarantee/warranty clauses for a specified period. Also, the tender documents/work order should have appropriate penalty clauses for non-performance/delayed performance/defective supplies etc.

(vi) No advance payments should be made, payments should generally be against supplies, after due verification by the authorised officer. However, for procurement on GeM portal, laid down procedure of GeM, including that related to payments, shall be followed.

(vii) With a view to maintain transparency in the entire procurement process and subsequent steps upto installation / operationalisation at the intended hospitals, all the documents like tender documents, work order etc. shall be put in public domain, by appropriately and prominently posting on the website of the State Government / State Health Department and displaying board(s) at prominent places in the concerned hospitals, giving brief details of the equipments, their quantities, cost of

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procurement, intended use and fact of funding by MDoNER etc. As far as possible, state will follow the e-tendering process.

(viii) State Government will furnish the exact details of various activities undertaken, type and quantities of equipments/ items purchased, their specifications etc. infrastructural works undertaken, assets created etc. with funding received from allthe sources for fighting COVID 19 since January 2020, including from MoHFW, NEC, MDoNER, States own resources and any other source (including assistance received in kind) and confirm that there is no duplication in terms of funding same item and/or quantities of same item from different sources of funding.

(ix) State Government shall keep a proper record of various items procured and consumed, assets created etc. duly authenticated by authorised officers of the State government.

(x) The State Government shall ensure adequate availability of Human Resources to support the additional infrastructure being created and to man the equipment being procured as part of this proposal.

(xi) MDoNER shall be free to get the pace of implementation / progress of works / procurement and other related aspects, including those

relating to quality, inspected/ checked by its officers or officers of MoHFW or any other authorised personnel.

(xii) Subject to availability of budget provisions and instructions issued by Department of Expenditure from time to time, as a one time measure to deal with COVID 19 related urgent activities, the funds will be released by Ministry of DoNER in two installments of 40% and 60%.

(xiii) 40% of the sanctioned cost will be released alongwith issue of AFS, and balance 60% will be released on receipt of:

(a) the work order for all the items as per AFS,
(b) Utilization Certificate (UC) for the 40% released amount, duly signed by Principal Secretary (Health)(for Health related items/equipments) and/or Principal Secretary (PWD) (for Civil works), and countersigned by Principal Secretary (Planning) and the Chief Secretary of the State, along with certification that all conditions of AFS, in particular these mentioned in para (i) to (ix) have been duly complied with.
(c) All the requisite mandatory certificates (viz. Environment Clearance Certificate and Land Availability Certificates, if not already provided).
(d) UCs shall be accompanied by monthly progress report, Geo-tagged photographs/ video etc. of procured equipments, their installation at intended hospitals etc , as well as details required as per para (viii) above.

(xiv) Items like ventilators etc., which are being supplied Centrally by MoHFW, will not be procured out of funds approved under this AFS. Further, procurement of

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Rapid Test kits, if any, shall be made only after getting a confirmation / go ahead from MoHFW/ ICMR.

(xv) Any cost overrun over and above the approved/ sanctioned cost in any project due to delay in implementation or any other reasons has to be borne by the concerned State Governments.

(xvi) After completion of the project, a Completion Certificate along with utilization certificate of the total fund released will be submitted by the State Government alongwith final report covering aspects stated in para (ix) above.

(xvii) As the entire procurement / other activities approved as per the AFS are to be completed within a maximum of 6 months, it is expected that State shall claim the full sanctioned amount i.e. second installment also within a period of 6 months from AFS. In any case, as the current approval for NESIDS scheme upto March 2021 only, no funds will be released by MDoNER beyond March 2021.

(xviii) No work shall be undertaken / executed by the State Government or procurement made before the issuance of AFS by MDoNER, any such work done or procurement made before the AFS, will not be funded by MDoNER.

(xix) The infrastructure/ items / equipment created / procured as part of this project shall be maintained by and taken care of by the State from out of its resources.

(xx) The State Government shall put in place a robust and strict monitoring mechanism for ensuring time bound completion of various activities and ensuring quality controls of highest standards. The state will constitute a Monitoring Committee for this purpose headed by Principal Secretary (Health) and other members, as considered necessary by CS, for overseeing the entire procurement process, installation of items/equipments at the intended hospitals, their operationalisation and utilisation for the intended purpose, regular supervision and periodic inspections, proper upkeep and maintenance etc.

(xxi) Funds will be utilized within specified time and strictly for purpose for which it was sanctioned.

(xxii) If at the time of procurement of ambulances through GeM portal, the cost of ambulances is found to be at variance from the approved cost, MDoNER may revise the sanctioned cost of the project based on the actual cost of ALS and BLS Ambulances, arrived at during procurement from the GeM portal.

(xxii) Following recommendations of M/o H&FW of the project may also be adhered to at the time of implementation. The lettersdated 01.05.2020 and 21.05.2020 received from MoH&FW vide support of components was conveyed to Ministry are attached.

a) Air handling unit is suggested instead of split air conditioner.
b) Written commitments of the Cardiologist from CMC Vellore and St. Stephen's Hospital, Delhi need to be taken and they should join at CIHSR, Dimapur before procurement process is initiated In case the cardiologist does not join, procurement of equipment should be deferred till a cardiologist joins. Regarding ventilator with proposed cost of Rs. 10 lakhs, since the Ministry is procuring ventilators centrally, the State Govt may be

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advised to send its requirement to this Ministry so that the same can be provided by the Ministry. Regarding Cardiac Monitoring Equipment, State may provide details of the proposed equipment. Further, Air Handling Unit is suggested instead of Central Air Conditioner.

c) Equipment items should be procured through open transparent process.

d) Procurement and installation of equipment should be completed preferably within 3-4 months from release of funds by MDoNER.

e) The state government should ensure availability of requisite HR and infrastructure for the equipments/ ambulances to be procured.

3. This sanction issues with concurrence of Integrated Finance Division vide their Dy.No. DS(IFD)/150/2020 dated 01.07.2020.

Yours faithfully,

(Ravindra Choudhary)
Director

Copy to:-

i. Principal Secretary (Health), Government of Nagaland, Kohima
ii. Principal Secretary (Planning), Government of Nagaland, Kohim
iii. Principal Secretary (Finance), Government of Nagaland, Kohima
iv. Principal Secretary (PWD), Government of Nagaland, Kohim
v. Secretary, North Eastern Council, Shillong,
vi. Integrated Finance Division, Ministry of DoNER

(Ravindra Choudhary)
Director

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F.No.Z.14011/11/2020 – NHM-III
Government of India
Ministry of Health & Family Welfare
Department of Health & Family Welfare
(NHM-III Division)

Nirman Bhawan, New Delhi
Dated 01.05.2020

Subject: Proposal submitted by the Government of Nagaland for Strengthening Health Infrastructure for comprehensive response to possible outbreak of COVID-19 in Nagaland for funding the North East Special Infrastructure Development Scheme (NESIDS) being implemented by the Ministry of Development of North Eastern Region – reg.

The undersigned is directed to refer to M/o DoNER's email dated 30.04.2020 on the subject mentioned above which encloses a proposal dated 29.04.2020 of the Government of Nagaland for Strengthening Health Infrastructure for comprehensive response to possible outbreak of COVID-19 in Nagaland. The proposal is with an estimated cost of Rs.3330.39 lakhs to be funded under the North East Special Infrastructure Development Scheme (NESIDS) being implemented by M/o DoNER.

2. It is stated that, under National Health Mission, an amount of Rs.3.71 Crores had been released in March 2020 (FY 2019-20) to the State of Nagaland for activities covered under NRHM for management and control of COVID-19. In addition, an amount of Rs.3.71 Crores had been released in April 2020 (FY 2020-21) to the State for COVID-19 Emergency Response and Health System Preparedness Package (100% centrally funded).

3. The proposal has been examined and comments of the Ministry are as follows:

(i) Strengthening ICU facilities for COVID-19 Hospitals (11 District Hospitals) amounting to Rs.1048.17 lakhs – It is supported with estimated cost of Rs.270.32 lakhs. However, Air Handling Unit is suggested instead of Split Air Conditioner. Regarding the Item 'Ventilators (Macquet / Standalone)' with proposed cost of Rs.689 lakhs, since the Ministry is procuring ventilators centrally, the State Government may be advised to send its requirement to the Minsitry so that the same can be provided by the Ministry.

(ii) Oxygen Generation Plant for 4 Zonal locations amounting to Rs.200 lakhs is supported.

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(iii) Setting up of Cardiac Centre at CIHSR, Dimapur amounting to Rs.929 lakhs – Any procedure being undertaken in CATH Lab may lead to some major complications including rupture of cardiac arteries and veins. Such emergencies require backup of cardiac surgery. Therefore, the State needs to share whether cardiac OT, cardiac surgeon, cardiologist, requisite infrastructure and other support staff are available before CATH Lab is set up. In absence of such requisite information, the Ministry is not in a position to support the proposal.

(iv) Ambulance for Referral Transport for 11 Districts amounting to Rs.640 lakhs – It is supported with estimated cost of Rs.338 lakhs @ Rs.18 lakhs per ALS for 11 ALS and Rs.14 lakhs per BLS for 10 BLS. The State may be advised not to utilize these dedicated ambulances as facility specific ambulances, but may be used through centralized Call Centre (108/102).

(v) Strengthening of Non-COVID-19 Hospitals (11 District Hospitals) for Secondary Services amounting to Rs.513.22 lakhs – The proposal is generic and it is not clear what services need strengthening. The State Government may be advised to send revised proposal based on gap analysis.

(vi) Equipment / Items should be procured through open transparent process.

(vii) The State Government should ensure availability of requisite HR and infrastructure for the equipment / ambulances to be procured.

(viii) Procurement and installation of equipment should be completed preferably within 3-4 months from release of funds by M/o DoNER.

This issues with the approval of Joint Secretary (P).

(Elangbam Robert Singh)
Director (NHM-III)
Ph:011-23062495

To

Shri Akhilesh Kumar Pandey,
Under Secretary,
M/o Development of North East Region,
East Block-10, Level-IV,
R. K. Puram, Sector-1,
New Delhi – 110022.
(email: akhilesh.pandey13@nic.in)

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No. Z.14011/ 11/2020 -NHM-III
Ministry of Health & Family Welfare
Government of India
NHM-III

Nirman Bhavan, New Delhi
Dated 21.05.2020

OFFICE -MEMORANDUM

Subject: Proposal submitted by the Government of Nagaland for Strengthening Health Infrastructure for comprehensive response to possible outbreak of COVID-19 in Nagaland for funding under the North East Special Infrastructure Development Scheme (NESIDS) being implemented by the Ministry of Development of North Eastern Region (MoDoNER) – reg.

The undersigned is directed to refer to this Ministry's letter of even number dated 01.05.2020 and M/o DoNER's email dated 13.05.2020 enclosing a letter dated 13.5.2020 of Govt. of Nagaland regarding clarifications on the proposal for strengthening health infrastructure for fighting COVID-19 under NESIDS.

2. The proposal has been examined and comments of the Ministry are as follows:-

(i) Setting up of Blood Banks at the 4 District Hospitals namely Tuensang, Mon, Kiphire and Phek at a unit cost of Rs.58.95 lakhs.– It is supported with estimated cost of Rs.167.80 lakhs for Blood Bank equipment (Each Blood Bank cost is Rs.41.95 lakh) to be procured through open and transparent process.

(ii) Setting Up of a Cardiac Centre at CIHSR, Dimapur amounting to Rs.992 lakhs (after calculating total project cost comes to Rs.947 lakh) - It is supported with estimated cost of Rs.648.50 lakhs. Further, written commitments of the Cardiologist from CMC Vellore and St. Stephen's Hospital, Delhi need to be taken and they should join at CIHSR, Dimapur before procurement process is initiated. In case the cardiologist does not join, procurement of equipment should be deferred till a cardiologist joins. Regarding ventilator with proposed cost of Rs. 10 lakhs, since the Ministry is procuring ventilators centrally, the State Govt. may be advised to send its requirement to this Ministry so that the same can be provided by the Ministry. Regarding Cardiac Monitoring Equipment, State may provide details of the proposed equipment. Further, Air Handling Unit is suggested instead of Central Air Conditioner.

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(iii) Ambulance for Referral Transport for 11 Districts amounting to Rs.640 lakhs – It is supported with estimated cost of Rs.509 lakhs @ Rs. 29 lakhs per ALS for 11 ALS and Rs.19 lakhs per BLS for 10 BLS. The State may be advised not to utilize these dedicated ambulances as facility specific ambulances, but may be used through centralized call Center (108/102).

(iv) Strengthening of Non-Covid-19 Hospitals (11 DHs) for Secondary Services amounting to Rs.513.22 lakhs - The State has not shared District-wise number of existing and planned OTs, specialists, nurses and paramedical staff available. Only availability of equipment has been indicated. In absence of requisite information, this Ministry is not in a position to support the proposal.

(v) Equipment/items should be procured through open transparent process.

(vi) Procurement and installation of equipment should be completed preferably within 3-4 months from release of funds by M/o DoNER.

3. This issues with the approval of AS & MD.

(D. D. Maheshwari)
Deputy Secretary to the Govt. of India

To

Secretary,
M/o Development of North East Region,
(Attn. Shri A. K. Pandey, Under Secretary)
East Block-10, Level-IV,
R. K. Puram, Sector-1,
New Delhi-110022.
(email:- akhilesh.pandey13@nic.in)

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GOVERNMENT OF NAGALAND
PLANNING & CO-ORDINATION DEPARTMENT
NAGALAND: KOHIMA.

No. PLN/NESIDS-PL/2020-21 **Dated Kohima, the 14th September 2021**

To

Shri Saurab Endley,
Joint Secretary,
Ministry of DoNER,
Vigyan Bhawan Annexe,
Maulana Azad Road,
New Delhi – 110011.

Sub: Matter regarding the project, "Strengthening of Health Infrastructure for comprehensive response to possible outbreak of COVID-19" in Nagaland under NESIDS.

Sir,

With reference to the subject cited above, the undersigned is directed to forward herewith the proposal as received from the Health & Family Welfare Department for reallocation of fund for the project, "Strengthening of Health Infrastructure for comprehensive response to possible outbreak of COVID-19" in Nagaland under NESIDS.

The submission is in pursuance to the State Level Empowered Committee (SLEC) meeting held on 9th September 2021 under the chairmanship of Chief Secretary, Nagaland through VC.

For your kind consideration and necessary action please.

Yours faithfully,

14.9.21

(Augustine M. Yanthan)
Joint Development Commissioner

Copy to:

1. The OSD to Hon'ble Chief Minister, Nagaland for kind information of Hon'ble Chief Minister.
2. The OSD to Hon'ble Minister, Planning for kind information of Hon'ble Minister.
3. The Dy. Secretary to Chief Secretary & Development Commissioner for kind information of CS & DC.
4. The Commissioner & Secretary, Planning & Co-ordination Department, Nagaland.
5. The Pr. Secretary, H&FW Department, Nagaland, Kohima.
6. The Pr. Director, H&FW, Nagaland, Kohima.
7. Office copy.

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Annexure -I

REVISED PROPOSAL FOR UTILZATION OF FUNDS APPROVED UNDER NESIDS VIDE SANCTION LETTER NO. NESIDS-16012(11)/2/2020. O/O DIR (NLCPR) DATED 02.07.2020, AGAINST THE PROJECT "STRENGTHENING OF HEALTH INFRASTRUCTURE FOR COMPREHENSIVE RESPONSE TO POSSIBLE OUTBREAK OF COVID-19 IN NAGALAND".

Rationale:

- The Government of Nagaland has received 27 PSA Oxygen plants from Central Government (PMCARES) and also from other Agencies (UNICEF, UNDP, DIAGEO, Turkey, ACT Grant, HANS Foundation, etc.).
- Out of 27 nos. of PSA plants of various capacities received by the State –
    - Only 6 PSA plants could be functionalized till date.
    - 14 PSA plants require new Generator Sets to provide uninterrupted power supply to the plants.
    - 13 health facilities require 3 phase power connection, dedicated transformer to keep the PSA plants up and running.
    - 6 PSA plants are being relocated from DH to the CHCs and for which PSA housings besides electrification, 3 phase power connection, dedicated transformer, Generator shed, etc. are required to make the plants operational.
- In various review meetings with the District Health Authorities, requirement for Patient Transport Vehicle has been put up to bridge the gap arising out of non-availability of transport vehicles to cater to the patients in the remote places, in the event of surge in COVID-19 positive cases and also to be in a ready state to combat the 3rd wave of the pandemic.
- Many ambulances supported under NHM and deployed in the peripheral health facilities have become old and undependable for frequent patient transport. Furthermore, there is now no provision for CAPEX for replacement of these ambulances under the NHM.
- At this juncture, the requirement of Patient Transport Ambulance far out-weighs the need for ALS & BLS Ambulances due to the reason as stated above and also 24 BLS ambulances being donated already by NHIDCL, MoRTH-GOI. These BLS ambulances have been deployed to strategic health facilities covering all the 12 districts of the State.
- In the light of the above, the State proposes to address the urgent need to functionalize the PSA plants and also purchase Patient Transport Ambulance by utilizing the approved funds vide Ministry of DoNER letter No. NESIDS-16012(11)/2/2020. O/o Dir(NLCPR) dated 02.07.2020, for purchase of 4 PSA plants, 11 ALS & 10 BLS ambulance amounting to Rs 709.00 Lakh.

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SUMMARY OF APPROVAL & REVISED ACTIVITIES PROPOSED WITH APPROVED FUND:

Sl	Particulars	Nos.	Approved Amt. (Rs. in Lakh)	Remarks/Proposed Activities
1	Strengthening ICU facilities for COVID-19	11 Hospitals	270.32	No change. Work ongoing.
2	Setting up Blood Bank at DH Tuensang, Kiphire, Mon & Phek	4 Hospitals	167.80	No change. Awaiting 2nd Installment sanction from GOI for execution of work.
3	Oxygen Generation Plant	4 Nos.	200.00	Revision of activity proposed for operationalization of 21 PSA plants & purchase of 10 nos. Patient Transport Ambulance
4	Setting up Cardiac Centre at CIHSR, Dimapur	1 Nos.	648.50	No change. Work ongoing.
5	ALS Ambulance	11	319.00	Revision of activity proposed for operationalization of 21 PSA plants & purchase of 10 nos. Patient Transport Ambulance
6	BLS Ambulance	10	190.00	

Summary of Budget Proposed against revised activities:

Item	Activity	Budget Proposed (Rs)
i	Procurement of 14 nos. of Generators; Auto change-over; Armor Cable; transportation.	2,97,39,200
	Construction of 6 nos. PSA Housing ; internal electrification for 8 sites; 19 nos. Generator Shed; Transportation cost for shifting 6 PSA plants to CHCs.	1,17,93,649
	Transformer for 13 PSA plants.	1,60,17,000
	Sub Total (A)	**5,75,49,849**
ii	Purchase of 10 nos. Patient Transport Ambulance: (FORCE Trax cruiser ambulance BS 6P, PS, AC, ABS, TYPE B).	1,33,50,151
	Sub Total (B)	**1,33,50,151**
	GRAND TOTAL (A+B)	**7,09,00,000**
	Rupees Seven Crore Nine Lakh	

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DETAILS OF THE REVISED ACTIVITIES TO BE CARRIED OUT WITH THE APPROVED FUND AGAINST 4 PSA PLANTS AND 11 ALS & 10 BLS AMBULANCES:

A. PROCUREMENT OF 14 NOS. OF GENERATORS, 13 TRANSFORMER AND CONSTRUCTION OF 19 GENERATOR-SHED FOR PROVIDING UNINTERRUPTED POWER SUPPLY TO 21 PSA PLANTS

Out of 27 nos. of PSA plants allotted to various health facilities in the State, only 6 plants are fully functional. 13 health facilities require strengthening of power supply with 3 phase connection and dedicated transformer. 14 PSA plants are without alternate power supply and therefore require Generator set and other related works to provide uninterrupted power supply and 6 PSA plants are required to be relocated to CHCs from DH and for which PSA housing, Generator shed and new transformers are required to be installed.

Against the approved amount of Rs. 200.00 Lakh for setting up 4 nos. of PSA plants, since sufficient PSA plants are already made available through various agencies, revision of the activity is proposed for procurement of 14 nos. of Generators and other accessories, 13 transformers and construction of 19 nos. of Generator-shed for providing uninterrupted power supply to the PSA plants. Since, the total fund requirement (amounting to Rs. 575.50 Lakh) for operationalizing PSA plants cannot be fully met out of this approved fund, it shall be adjusted and utilized from the funds approved under the ALS and BLS ambulances amounting to Rs.509.00 Lakh and the balance amount utilized for procuring 10 patient transport ambulances which is much needed, particularly in the rural and remote places.

The detail proposal along with fund requirement is given in the table below:

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Budget details along with fund requirement for 14 Generators and other accessories, 13 (transformers and construction of PSA Housing/DG-shed:

Sl. No.	Location	Capacity (LPM)	Allotment by	PSA Size (meter x meter)	PSA Housing	Electrification	Cost of Generator Shed (Rs)	Genset (kVA)	Generator Cost (Rs)	Auto-changer Cost (Rs)	Transportation (Rs)	Armoured Cable Size in Sqmm (Rsl	Armoured Cable (Rs)	Transformer Capacity (kV)	3 Ph Power / Transformer (Rs)	Shifting (Loading, unloading & Transportation) of PSA Equipments (Rs)	Total (Rs)
1	1	DH Dimapur	200	COMPLETED													
2	2	NHAK Kohima	300														
3	3	DH Mokokchung	200		PM Cures												
4	4	CHBSR Dimapur	1000														
5	5	DH Phek	150		UNDP												
6	6	DH Tuensang	150														
7	1	DH Mon	400	ACT GRANTS	7 x 7												
8	2	DH Dimapur	400	Dhapgen	7 x 7	Dhapgen	177,662	138,000	100	1,450,000	140,000	5,000	120	54,000			1,964,662
9	3	DH Mokokchung	600	Hums Edn	7 x 7	Hums Edn	175,310	158,000	200	2,400,000	200,000	25,000	185	64,000	200	1,545,000	4,567,310
		Grand Total				(A)	352,972	296,000		3,850,000	340,000	30,000		118,000		1,545,000	6,531,972
10	1	DH Kiphire	250	Fund supported under DR(K)	7 x 7			203,000	100	1,450,000	140,000	70,000	120	37,200			1,900,200
11	2	NHAK Kohima	1000		8 x 8			211,000	250	2,750,000	300,000	15,000	300	714,000	250	1,795,000	5,784,000
12	3	Yachem CHC (Tuensang)	250		7 x 7			163,000	100	1,450,000	140,000	30,000	120	37,200	100	1,269,000	3,089,200
13	4	DH Peren	250		7 x 7			148,000	100	1,450,000	140,000	15,000	120	37,200	100	1,256,000	3,046,200
14	5	DH Phek	500		7 x 7			148,000	200	2,400,000	200,000	15,000	185	64,000	200	1,545,000	4,363,000
15	6	DH Tuensang	500		7 x 7			163,000	200	2,400,000	200,000	30,000	185	64,000			2,847,000
16	7	DH Wokha	250		7 x 7			158,000	100	1,450,000	140,000	25,000	120	37,200			1,810,200
17	8	DH Zunheboto	500		7 x 7			165,000	200	2,400,000	200,000	30,000	185	64,000			2,847,000
18	9	CHC Jalukie, Peren	250		7 x 7			146,000	100	1,450,000	140,000	15,000	120	37,200	100	1,254,000	3,040,200
19	10	CHC Noklak	250		7 x 7			183,000	100	1,450,000	140,000	50,000	120	37,200	100	1,295,000	3,155,200

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20	11	DH Mon	500		7 x 7		178,000	200	2,400,000	200,000	45,000	185	54,000				2,877,000
Grand Total (B)							**1,863,000**		**21,050,000**	**1,940,000**	**338,000**		**1,153,200**		**8,414,000**		**34,758,200**
21	1	CHC Pungro, Kiphire	90	UNICEF	5 x 5	1,114,708	175,310	203,000	25	Funded under N S D M A (yet to be installed)			35	15,000	63	1,045,000	60,000	2,613,018
22	2	DH Longleng	100	UNICEF	5 x 5	C O M P L E T E D							C O M P L E T E D					
23	3	CHC Tobu, Mon	150	UNICEF	5 x 5	938,194	175,310	183,000	40				35	30,000	63	1,028,000	78,000	2,432,504
24	4	CHC Meluri, Phek	100	UNICEF	5 x 5	1,086,726	175,310	168,000	25				35	15,000	63	997,000	170,000	2,612,036
25	5	CHC Bhandari, Wokha	90	UNICEF	5 x 5	983,652	175,310	158,000	25				35	15,000	63	993,000	46,000	2,370,962
26	6	CHC Aghunato, Zunheboto	150	UNICEF	5 x 5	1,049,021	175,310	163,000	40				35	30,000	63	1,000,000	54,000	2,471,331
27	7	CHC Phutsero, Phek	200	Turkey	7 x 6	1,386,516	175,310	158,000	50	660,000	100,000	25,000	35	30,000	63	995,000	230,000	3,759,826
Grand Total (C)						**4,558,817**	**1,051,860**	**1,033,000**		**660,000**	**100,000**	**25,000**		**135,000**		**6,058,000**	**638,000**	**16,259,677**
Grand Total (Rs) A + B + C																		**57,549,849**
Rupees Five Crore Seventy Five Lakh Forty Nine Thousand Eight Hundred Forty Nine																		

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DFA/115909 (Attachment : Annexure N_1636135450037_922.pdf)

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B. PROPOSAL FOR PURCHASE OF 10 nos. of PATIENT TRANSPORT AMBULANCES.

In various review meetings, the District Task Force and District Health Authorities, have flagged the requirement for Patient Transport Ambulance with the objective to bridge the gap arising out of non-availability of transport vehicles to cater to the patients in the remote places, should there be increased number of COVID-19 positive cases, and also to be in a ready state to combat the 3rd wave of the pandemic.

At this juncture, the requirement of Patient Transport Ambulance far out-weighs the need for ALS & BLS Ambulances due to the reason as stated above and 24 BLS ambulances being donated by NHIDCL, MoRTH-GOI. These BLS ambulances have been deployed to strategic health facilities covering all the 12 districts of the State.

Since the implementation of NHM in the State, a total of 80 ambulances (Patient Transport Ambulance) have been supported with CAPEX as well as OPEX cost. However, the support for CAPEX has been withdrawn and only OPEX is now supported under NHM.

Out of the total patient transport ambulances available, 65 nos. are beyond 8 years. Due to the bad road condition and the terrain, these ambulances break down frequently and have become risky to transport patients. Out of these 65 old ambulances, 10 ambulances which are more than 10 years are being proposed for replacement with new patient transport ambulances, while replacement for the other old ambulances are being projected under NESIDS (FY 2021-22) under the project titled, "STRENGTHENING OF HEALTH SYSTEM FOR THE MANAGEMENT OF COVID-19 PANDEMIC WITH SPECIAL REFERENCE TO COMBAT THE IMPENDING 3rd WAVE OF THE PANDEMIC IN NAGALAND". The detail proposal along with fund requirement is given below:

Sl.	District	Name of the Health Unit	Type of Vehicle	Age of the ambulances (in years)	Remarks on requirement / replacement (Y/N)
1	Dimapur	CHC Dhansiripar	M/Gypsy	11	Yes
2	Kohima	PHC Botsa	M/Gypsy	12	Yes
3	Phek	PHC Zuketsa	M/Gypsy	11	Yes
4	Mokokchung	CHC Tuli	M/Gypsy	11	Yes
5	Mon	CHC Aboi	M/Gypsy	11	Yes
6	Longleng	CHC Tamlu	M/Gypsy	11	Yes
7	Peren	Athibung PHC	M/Gypsy	11	Yes
8	Tuensang	PHC Thonoknyu	M/Gypsy	11	Yes
9	Kiphire	PHC Seyochung	M/Gypsy	11	Yes
10	Wokha	CHC Bhandari	M/Gypsy	11	Yes

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Budget Proposed:

Sl	Particular	Qty	Unit price (Rs)	Total (Rs. in Lakh)
i	**Patient Transport Ambulance** (FORCE Trax cruiser ambulance BS 6P, PS, AC, ABS, TYPE B)	10	13,35,015.10	1,33,50,151.00
			Grand Total	**1,33,50,151.00**
	Rupees One Crore Thirty Three Lakh Fifty Thousand One Hundred Fifty One			

****

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GOVERNEMNT OF NAGALAND
PLANNING & COORDINATION DEPARTMENT
NAGALAND: KOHIMA

NO.PI N/NESIDS-PI/2020-21 **Dated, Kohima the 3rd September 2021**

OFFICE MEMORANDUM

Sub: Minutes of State Level Empowered Committee (SLEC) meeting for project under NESIDS held on 9th September 2021 at 3:30 pm under the chairmanship of Chief Secretary & Development Commissioner, Nagaland.

With reference to the above, the undersigned is directed to forward herewith the minutes of the State Level Empowered Committee (SLEC) meeting for reallocation of fund for the project, "Strengthening of Health Infrastructure for comprehensive response to possible outbreak of COVID-19" under NESIDS held on 9th September 2021 at 3:30 pm under the chairmanship of Chief Secretary & Development Commissioner in CS conference hall, Nagaland.

The concern implementing Department is requested to comply with the decision taken in the meeting.

Sd/-
(J. Alam, IAS)
Chief Secretary & Development Commissioner

To

1) The Principal Secretary, H & FW/ Works & Housing Department,, Nagaland.
2) The Finance Commissioner, Finance Department, Nagaland, Kohima.
3) The Joint Secretary, Ministry of DoNER.
4) Financial Advisor, DoNER.

Copy to:

1) The Deputy Secretary, Chief Secretary's Office, Nagaland for kind information of Chief Secretary & Development Commissioner.
2) The PS to Commissioner & Secretary, Planning & Co-ordination for kind information of Commissioner & Secretary, Nagaland, Kohima.
3) The Principal Director, H&FW Department.
4) Office copy.

9/9/21
(Imokaba Jamir)
Commissioner & Secretary

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Minutes of State Level Empowered Committee (SLEC) meeting for NESIDS held on 9th September 2021 at 3:30 pm under the chairmanship of Chief Secretary & Development Commissioner in CS Conference Hall, Secretariat.

The meeting of the State Level Empowered Committee (SLEC) meeting for reallocation of fund for project, "Strengthening of health Infrastructure for comprehensive response to possible outbreak of COVID-19" under NESIDS was held.

(Attendance appended)

The Ministry of DoNER was represented by Shri Saurabh Endley, Joint Secretary and Shri Purushottam, financial Advisor through VC.

At the outset, Principal Secretary, Health & Family Welfare Department gave a detailed explanation for the proposed reallocation of fund towards construction of housing for PSA Plants and purchase of Transports Ambulances. He said that this was necessitated on account of the assistance received from other sources such as PM Cares, NHIDCL and foreign donors against the works proposed in the original sanction. The original approved components can be seen as under:

Sl No	Particulars	Nos	Approved (in Lakh)
1	Strengthening ICU facilities	11 hospitals	270.32
2	Setting up blood bank at DH Tuensang, Kiphire, Mon & Phek	4 hospitals	167.80
3	Oxygen Generation Plant	4 Nos	200.00
4	Setting up Cradiac Centre at CIHSR, Dimapur	1 Nos	648.50
5	ALS Ambulance	11	319.00
6	BLS Ambulance	10	190.00
	Total		1795.62

Against the original approved components, the State Government is proposing to reallocate the fund allocated to Oxygen Generation Plant, ALS & BLS Ambulance amounting to Rs.709.00 lakh (Rs.200 lakh+Rs.319 lakh+Rs.190 lakh) towards the following activities.

Sl No	Activity	Budget Proposed (Rs)
1	Procurement of 14 nos of Generators, Auto change-over, Armor Cable, transportation.	2,97,54,200
2	Construction of 7 nos PSA Housing: internal electrification for 9 sites: 20 nos.	1,31,30,588
3	Transformer for 13 PSA plants	1,60,17,000
4	Purchase of 9 nos Patient Transport Ambulance;(FORCE Trax cruiser ambulance BS, 6P,PS,AC,ABS,TYPE B) inclusive of GST	1,16,78,130
5	Miscellaneous/Contingency fund: Vehicle Registration Cost/POL/Branding/etc	3,20,082
	Total	7,09,00,000

Joint Secretary, M/DoNER stated that, separate contingency charges are not permitted under the NESIDS/NLCPR projects. He further advised to obtain the approval of Ministry of Health & Family Welfare for the proposed changes in the components of the project, which was agreed upon.

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The Principal Secretary, H&FW department also stated that the proposed at Sl no.22 in respect of District Hospital, Longleng would be revised and instead a patient transport ambulance would be included. This was agreed upon by the SLEC.

After deliberation, SLEC has recommended for taking up the matter in the next Inter Ministerial Committee (IMC)/NESIDS for approval.

The meeting ended with thanks from the chair.

T19/2021

(J. Alam, IAS)
Chief Secretary & Development Commissioner

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Annexure - AO

31st meeting of IMC/NESIDS scheduled on 29.10.2021

IV. CHECKLIST-CUM-AGENDA NOTE FOR CHANGE OF SCOPE OF WORK
(to be submitted by Programme Division, MDoNER)

Agenda Item No.: AO **State: Nagaland**

Name of Project: Upgradation of Naga Hospital at Kohima under NLCPR

Project Description/Summary (not exceeding 200 words): NLCPR Committee in its 1st meeting held in the Planning Commission on 21.12. 1998 approved the project for a 176 bedded (Naga) Hospital at Kohima at an estimated cost of Rs.25 crores. The scheduled date of completion of the project was 31.03.2004. The Planning Commission had released a total of Rs.18 Crores (in three instalments) and the revised date for completion was 31.03.2004. Out of Rs.18 crores released , Govt. of Nagaland have furnished utilization certificate for Rs. 14.27 crore. There is a balance unutilized amount of Rs. 3.72 crores . Due to non fulfillment of commitment by SEDH (the executing agency), the work on the hospital has remained at a standstill for long. However, Stage-I (comprising 102 beds) was completed and has been handed over by SEDH to the State Govt. in September 2004.
Chief Secretary, Govt. of Nagaland vide his D.O. letter No. CSO/PLN/NLCPR/704/2003/3 dated 19th August, 2019 has requested this Ministry that the unspent balance of Rs. 3.72 crore lying with the State Govt. out of the total released of Rs. 18.00 crore by the Planning Commission for the project, may be permitted to utilize the balance amount for purchase for medical equipments for the hospital.

2	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Health		
3	**Date of receipt of proposal for change of scope of work from State Government (SG)**	19.08.2019		
4	**Discription**	**Original Cost**	**Description of items proposed in revised project**	**Component cost proposed**
	1	2	3	4
	Item of works	**Cost (Rs. crore)**	**Item of works**	**Cost (Rs. crore)**
1	(i) Delivery of equipment at site (ii) Completion of building	3.72	Purchase of the equipment	3.72

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Remark: PD sought clarification on purchase of equipment as per approved component of project. on which SG clarified that :
a. Equipment were procured as projected in the DPR, which was prepared as per requirement in that period of time.
b. Many of the equipments procured then are now outdated or has become non-functional due to wear & tear which were put into service since 1999 (project was sanctioned on 23.12.1998)
c. With the advancement in Medical Technology, necessitating use of advance equipment in the management of various health problems.

5	**Original approved project cost** **Rs. 25 crore**			**Revised project cost (if any)** -
	Central Share	**State Govt Share**	**Total**	**Central Share and state share**
	1		**3**	**4**
	25	0	25	Revised cost has become Rs 18 crore which have already been released to SG. Proposal is to approve the utilization of unspent fund of Rs 3.72 crore
6	**Original time frame for completion**			
	Mar-01			
7	**Is the proposal accompanied with following documents: (Specify)**			
	(a) Revised Techno-Economic vetting of DPR by SLEC (if applicable)	NA		
	(b) Revised Abstract of Cost signed by Competent Authority (if applicable)	Will be obtained from SG before processing.		
	(c) Minutes of SLEC meeting approving the change of scope	SLEC Meeting held on 22.10.2021, Minutes awaited.		
	(d) Requisite certificates	NA		
	(e) Any other (specify)			
8	**List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:**			
	Name of line Ministry/IFD/Technical Wing/Others	**Date of receipt of comments (If any)**		
	1	**2**		
	IFD			
	Technical Wing	Not applicable		
	MoH&FW	Will be obtained before processing.		
9	**Comments of line Ministries/IFD/Technical Wing/Others in brief (attached as per Annexure-__)-**			

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10	**Important observations/comments of Prog. Division-** As SLEC meeting held on 22.10.2021 discussed the matter in its entirely and recommended the utilization of Rs 3.72 crore for purchase of equipments. PD also recommends the fund utilization of Rs 3.72 crore for puchase of equipments for the Naga Hospital in Kohima, so that this long pending NLCPR project may be completed wihout further delay.

(Dated Signature & Name of
Under Secretary concerned)

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NLCPR-18/2/2019-O/o DIR1 (NLCPR)

5[illegible]/2019/O/o SECY (NLCPR)

TEMJEN TOY, IAS

CHIEF SECRETARY
GOVERNMENT OF NAGALAND
NAGALAND : KOHIMA

DO. No. CSO/PLN/NLCPR/704/2003/3 : **Dated, 19th August 2019**

Dear Sir,

I write this regarding the project, "Upgradation of Naga Hospital Kohima" under NLCPR which was sanctioned during 1998-99 for Rs. 25.00 crore. The project was contracted to Sir Edward Dunlop Hospitals Ltd (SEDH), New Delhi for a period of 2 years which was extended for another 2 years i.e. upto March 2004.

The project came to a standstill after completion of 28% of the work due to non fulfillment of commitment by the contractors. Whereas the fund released to SEDH was Rs. 14.28 crore, the work progress on ground was very slow and not commensurate to the financial progress. Accordingly, no further funds were released to the contractors till the fulfillment of the agreement. However, the completed portion of the building is however, fully operational and in fact houses a State of the Art ICU and Operation theatres.

There is an unspent balance of Rs. 3.72 crore with the State Government out of the Rs. 18.00 crore released by DoNER for the project.

In view of the unspent balance, as discussed during the review meeting held on 7th August 2019 at Kohima and the IMC meeting held on 19th August 2019, the State Government proposes to utilize for purchase of medical equipments for the hospital. The list of proposed equipments is annexed. I shall be grateful if clearance is given for purchase of the equipments out of the balance amount of Rs. 3.72 crores.

With regards,

Yours Sincerely,

(Temjen Toy)

Dr. Inter Jit Singh,
Secretary, Ministry of DoNER,
Vigyan Bhavan Annexe,
Maulana Azad Road,
New Delhi- 110 011.

Nagaland Civil Secretariat Kohima : 797 004 +91 370 2270082 2270076 ; F +91 370 2270 057 : csng@nic.in

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Annexure

List of proposed equipments for Naga Hospital Kohima

Sl No.	Department/Equipment	Make/ Agency	Quantity	Quoted price (In Rupees)
1	Anesthesia			
	i. Athena SV 200 with Vaporizer	Skanray	1	6,50,000
	ii. Modular Multi Parameter Monitor- "STAR-65(ERTNS2P)"	Skanray	1	1,55,000
2	Blood Bank			
	Deep freezer -80°C & -40°C, blood bank refrigerator, refrigerated centrifuge, cell counter 5 part, etc	Remi, Boule Medical, Sweden, Racy Biotech, etc		1,05,82,542
3	OBG/ Gynae			
	i. Force Triad 10 with sonicision	Valley Lab	1	19,00,000
	ii. Harmonic Scalpel with Enseal	Johnson & Johnson (Ethicon)	1	15,00,000
	iii. Laparoscopic light source & monitor	Pee Bee	1	4,50,000
	iv. Electronic operated labour table	Fama Marketing	2	4,00,000
4	Microbiology			
	i. Bact/Alert 120	Biomericux	1	31,27,000
	ii. Vitek 2 compact 30	Biomerieux	1	
5	ENT			
	i. Axon Model Harmonic scapel	Vansari marketing services	1	5,75,000
	ii. MDH video Flexible Bronchoscope	-do-	1	6,00,000
	iii. Rigid paediatric Bronchoscope set	-do-	1	3,50,000
	iv. VMS HD autoclavable 0°, 30° & 45°	-do-	1 each	72,000
6	Biochemistry			
	UPS, EM200, Bio-Chemistry Analyzer	Erba Transasia		8,96,983
7	Radiology			
	Mammomat Select Mo/Mo, Patient table & compression plate	Siemens	1 each	40,00,000
8	Critical Care			
	i. Astral 150 ventilator with standard accessories	ResMed	1	12,88,000
	ii. Syringe Infusion pump- floSkan 3000	Skanray Technologies (P) Ltd		
9	Dental			
	Dental Chair, compressor, airotor handpiece, micromotor contra angle & straight handpieces, lightcure unit, ultrasonic scaler.	Prithvi, EKD, NSK, woodpecker	1 each	3,00,000

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Sl No.	Department/Equipment	Make/ Agency	Quantity	Quoted price (in Rupees)
10	Ortho			
	PFA Nail, broken screw removal set, 4.5 & 6.5 cannulated screw sets, repair of power drill	Miraclus orthotech & StryKer India Ltd		8,77,287
11	Opthalmology			6,00,000
12	Dermatology			
	Electro cautery	Basco India/ Meagsurg Gold (Dermalndia)		50,000
13	Physiotherapy			
	UST(b), Auto traction (LCD) four fold bed, shoulder wheel, CPM, parallel walking bar, tilt table, weight cuffs, 6000 laser 12w, wrist rotator, static cycle, exercise mat & band, unweighing system with treadmill	HMS/Biomed/ BTL/Lifeline /Aerofit		13,48,775
14	Urology			
	URS set, cystoscope set, turp set, Nephroscope/slender PCNL with accessories	Karl Storz		19,62,169
15	Surgery			
	HD video Endoscopy system (EVIS EXERA III 190 Sysytem)	Olympus Medical Systems India Pvt. Ltd	1	52,19,900
16	Pathology			
	Magnus Microscope Binoculars CH20i, Trinocular with camera, centrifuge, hot air oven with PID controller, serological water bath, tissue floatation bath, microtome histocore multicut	Magbus/ Lecia/ Remi/ Racy / Equitron		19,83,580
	Grand Total			**3,88,38,241**

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Annexure AI

31st meeting of IMC/NESIDS Committee scheduled on 29/10/2021 I. CHECKLIST-CUM-AGENDA NOTE FOR RETENTION/SELECTION OF PROJECTS (to be submitted by Programme Division, MDoNER)			
Agenda Item No.:	**State: Tripura**		
Name of Project: Construction of 06 Schools building in Tripura with project cost of Rs. 52.02 crore.			
Project Description/Summary:-The project includes construciton of 06 units higher secondary schools building in Tripura at various locations.			
	Stage 1: Retention/Selection of the Project		
1	**General Information**		
1.1	**Estimated Cost (as per concept note/Proposal) (Final/revised, which is under consideration)**	Rs. 52.02 crore	
1.2	**Whether lying in backward areas**	Not mentioned in the concept paper	
1.3	**Sector:** (Physical infrastructure relating to _____ (Water supply/Power/Connectivity - mention as applicable or creation of infrastrucrure in social sector in the areas of _____(Primary/Secondary Sectors of Education/Health - mention as applicable)	Education	
1.4	**Project Linkages with Promotion of Tourism** (not exceeding 100 words): not mentioned in the concept paper		
	Not applicable		
1.5	**Whether independent/new project or part of any other project of any other Ministry/SG/Agency, whether proposed, sanctioned or ongoing**	Yes/No, if Yes, describe briefly	Not mentioned in the concept paper
1.6	**If the project involves O & M, staff components, post construction management, recurring expenses etc for its running/maintainance etc e.g.**(e.g.running of a Hostel building), **has the SG agreed to take care of these activities**		No such component is included in the abstract of cost.
1.7	**Broad Breakup of Major Components of the project Cost as per concept note**		

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	Items of Work		Amount (in Lakhs.)
i)	Infrastrucrture Development of Higher Secondary School in various locations in Tripura		841.67
ii)	Add 3 % cost estimate		25.25
	Total		866.92
	Total cost for 06 units High Secondary Schools		5,201.52
	say Rs. 52.02 cores		
1.7A	Out of above, SG's Contribution in the Project Cost, if any		Nil
1.7B	Out of above, Contribution from any other Ministry/Agency in the Project Cost, if any	Not mentioned in the concept paper	
1.8	Date of receipt of proposal/concept note from State Government (SG)		-
1.9	Original		09.08.2021
1.1	Revised (if any)		
2	Is the project in question supported/coverable under any other scheme of Central or State Government	Not mentioned in the concept paper	
3	Normative allocation of SG and related details	• Normative allocation for 2020-21:- ₹ 135.36 crore	
		• Projects already selected/sanctioned – 19.32 crore	
		• Available funds :- ₹ 116.04 crore	
4	List of line Ministries/IFD/Technical Wing/others to whom circulated for comments along with dates of circulation and date of receipt of comments, if any:		
	Name of line Ministry/IFD/Technical Wing/Others	Date of sending for comments	Date of receipt of comments (if any)
i)	IFD, MDoNER	22.10.2021	comments awaited
ii)	Technical Wing	22.10.2021	comments awaited
iii)	Deaprtment of School Education and Literacy	22.10.2021	comments awaited
iv)	NITI Aayog	22.10.2021	comments awaited

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5	**Whether proposal has been accompanied with the following documents**		
	(a) Concept Note	Yes	Copy of concept note is annexed.
	b) Abstract of cost/Broad break up of costs	Yes	Yes, included in the Concept Note
	(c) Approval of CS	Yes	Forwarded by Planning Department after approval of CS
	(d) Any other (pl. specify)	NA	-
6	**Comments of line Ministries/IFD/Technical Wing/Others in brief - (attached as per Annexure)**		
7	**Important observations/comments of Prog. Division:-**		
	The project includes construciton of 06 units higher secondary schools building in Tripura at various locations. State Government has been requested to provide the locations of the schools. Further, it is observed that the said project is multiple location project.		

Date:- 27/10/21

Dated Signatures of Under Secretary concerned

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				Annexure
Comments of consulted line Ministries/IFD/Technical Wing, MDoNER				
Sl.No.	**Name of the line Ministry/IFD/Technical Wing, MDoNER**	**Comments in brief**	**Response of SG/proposal submitting agency to the comments**	**Response of programme Division**
1	2	3	4	5
	Technical wing	This estimate is based on CPWD PAR 2019, However, CPWD PAR 2020 & CPWD PAR 2021 has been published by CPWD 2) The provision for extra for resisting earthquake Forces @Rs. 1200/- per sqm has been taken which is not admissible as this provision is already included in the Plinth Area Rates. The same is clearly mentioned in the CPWD PAR-2020 3) The provision for extra for Pile Foundations @Rs. 16600/- per sqm has been taken. State Govt. may be asked to send the bearing capacity of soils of the said schools and justifications. 4) The provision for extra for deeper Foundaions @ Rs. 160/- per sqm for area (977.55 sqm) has been taken which is not admissible if pile is provided. 5) The provision @3.00 % on account of contingency has been taken.		The comments of technical wing has been forwarded to State Government of Tripura.

27/10/21

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By e-mail

No.F.6 (185)/PCD/NESIDS/2021-22
Government of Tripura
Planning (P&C) Department
Tel & Fax – (0381) 241 2943
E-mail: planning-ts@gov.in

Agartala, 9th August, 2021

To
Shri Saurabh Endley,
Joint Secretary,
Ministry of Development of North Eastern Region,
Vigyan Bhavan Annexe, Maulana Azad Road,
Government of India
New Delhi – 110 011.

Subject: Project proposals for funding under NESIDS for the year 2021-22.

Sir,

Kindly refer to the letter No. NESIDS/6/2019-O/o DIR 1(NLCPR) dated 16.03.2021 of Joint Secretary, Ministry of DoNER addressed to Chief Secretary, Government of Tripura regarding project proposals under North East Special Infrastructure Development Scheme (NESIDS) for Priority List 2021-22 of Tripura State.

2. The State Government has decided to send following project proposal **after approval of Chief Secretary, Government of Tripura** along with concept paper in the Priority List for the year 2021-2022.

Sl No	Name of Projects	Project Cost (In crore)
1	Construction of 06 schools building in Tripura along with concept paper with a project cost Rs. 52.02 crore.	52.02

3. Earlier, State Government sent 2(two) project proposals along with concept paper vide letter No. No.F.6 (185)/PCD/NESIDS/2021-22 dated 5th August, 2021.

4. I am therefore to request you to kindly consider for selection of the aforesaid project proposals and sanction under NESIDS for the year 2021-22.

Yours faithfully,

9.8.2021
(A. Roy)
Secretary to the
Government of Tripura

Enclo: As stated

Copy to:
1. The Secretary, Secondary Education, Government of Tripura for kind information.

Copy also to:
1. The Resident Commissioner, Tripura Bhawan, New Delhi for kind information and taking necessary action.
2. The PS to Chief Secretary for kind information of Chief Secretary, Government of Tripura.

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CONCEPT PAPER

GOVERNMENT OF TRIPURA

CONCEPT PAPER

Name of work :- Model Preliminary cost estimate for Infrastructure Development of 06 (six) Unit Higher Secondary School in various locations in Tripura under NESID Scheme.

Estimated Project Cost: Rs. 52.02 Crore

ENGINEERING CELL OF SECONDARY
EDUCATION DEPARTMENT, AGARTALA
WEST TRIPURA

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GOVT. OF TRIPURA
SECONDARY EDUCATION DEPARTMENT
AGARTALA, WEST TRIPURA

Branch:-Engineering Cell

STATE :- TRIPURA
DSF.

Name of work :- **Model Preliminary cost estimate for Infrastructure Development of 06(six) Unit Higher Secondary School in various locations in Tripura under NESID Scheme.**

Head :-

Minor Head :-

Detailed Head :-

The **Concept paper** for an amount of **Rs.52.02 Crore (Rupees Fifty Two Crore and Two lakh)** only has been framed on the basis of plinth area calculation by the Engineering Cell of Directorate of Secondary Education, Agartala for infrastructure development of the **06(six) Unit Higher Secondary School in various locations in Tripura.**

REPORT

Ministry of DoNER, Government of India, has proposed to submit the concept paper as per guidelines of **North East Special Infrastructure Development Scheme (NESIDS)** for sanction of fund. Accordingly Secondary Education, Government of Tripura has taken various initiatives & measures to develop the educational infrastructure of the State. Therefore, as per requirement of school a preliminary estimate for **06(fifty) Unit Higher Secondary School**, has been prepared for infrastructure development of the school.

Accordingly, this preliminary estimate for an amount of **Rs. 52.02 Crore** has been prepared based on approximate area calculated in Annexure-II for according Administrative Approval and Expenditure Sanction from the competent authority.

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DESIGN & SCOPE

The estimate envisages for the following provisions:-

- Infra-structure development of 06(six) Unit Higher Secondary School, with RCC framed structure having built up area (06 X 1955.10) sqm
- Internal Water Supply and Sanitary Installations.
- External Service Connections.
- Internal Electric Installations.

Cost : Rs. 52.02 Crore

Built up area: (06 X 1955.10) sqm (approx.)

Rate : Based on CPWD – PAR – 2019

Time : 24 month per unit (work of all the units will be taken up at the same time).

T&P : No special T&P will be required. Ordinary T&P will be arranged by the agency.

Land : To be made available to PWD/ implementing angency/ies by the Secondary Education Department.

Specification: As per specification for building works with up to date modification, duly incorporated in the state PWD, Govt. of Tripura. Where Tripura Specification is silent, CPWD speciation will be followed.

03/08/2021

Superintending Engineer
Secondary Education Department
Agartala, West Tripura

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Model Preliminary cost estimate for Infrastructure Development of 06(six) Unit Higher Secondary School in various locations in Tripura under NESID Scheme during the year 2021-22.

1. INTRODUCTION :

Present status:

In the state, education at school level consists of 8 distinct stages - Primary, upper primary, secondary and higher secondary. The primary education which includes classes I - V is transacted in independent Junior Basic School as well as in Primary School attached with SB, High and HS Schools. Simdarly education at upper Primary stage (VI - VIII) runs in senior basic Schools and in all High and Higher Secondary Schools. All High Schools have classes up to class X and H/S schools up to XII.

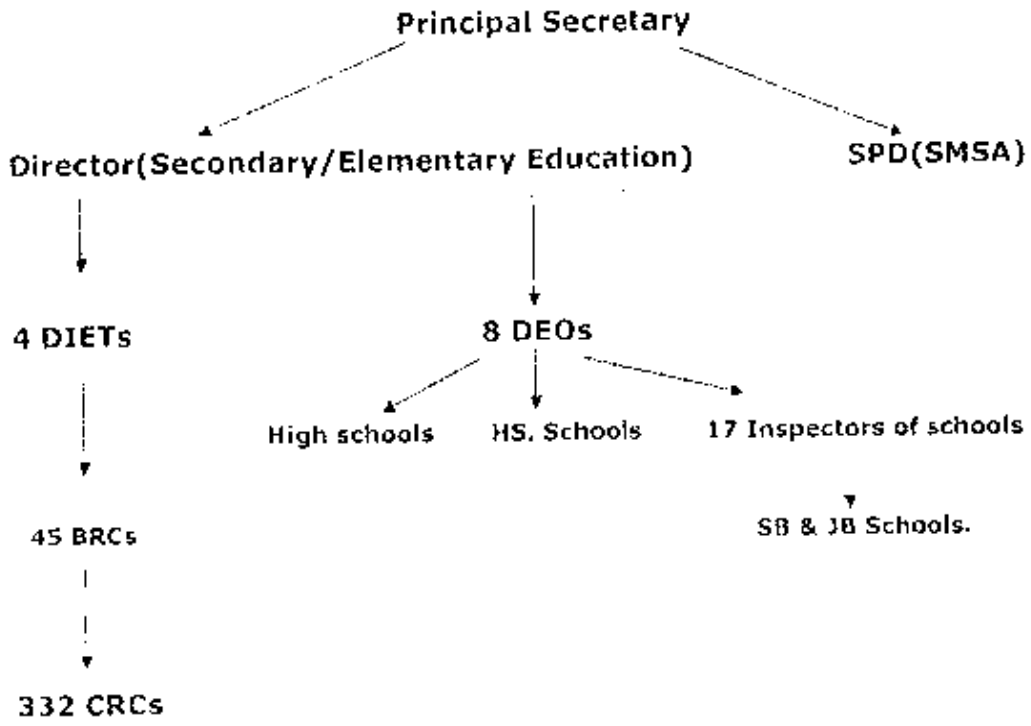
The following major Schemes are being implemented under School (Education) Department:-

1. Samagra Siksha Abhiyan
2. MDM.
3. IEDSS
4. EDU SAT & COMPUTER EDUCATION.
5. SAAKSHAR BHARAT MISSION
6. MADRASSA EDUCATION.

The administrative structure of Secondary Education Department is shown below.

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Existing Administrative Structure.



2. BASIC INFRASTRUCTURE:

In ideal situation, the infrastructure development of the school needs to have minimum basic infrastructure facilities, i.e. pucca building, furniture, equipments, library, drinking water, sanitation, boundary wall and adequate number of staffs in order to made the school function effectively. To provide those facilities to school there exit no norms in the state so far. There is an urgent need to formulate specific norms to ensure provisions of basic minimum facilities in all schools. The Govt. of India has, of late, urged upon all State Governments to develop state-specific norms in this regard. In the absence of schools in Tripura State

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3. INFRASTRUCTURE GAP:

There were 17 subdivisions, 40 Blocks and 04 Districts in Tripura state. But during the year 2012-13, the state Government extended its number as 23 Sub-Divisions, 58 Blocks and 08 Districts to provide all administrative facilities to common people. As a consequence infrastructural gap in new Sub-Divisions, Blocks, Districts as well as earlier Sub-Divisions, Blocks & Districts has come out in crisis mood.

The State Government has been making efforts to develop and improve infrastructure facilities of Secondary schools in the state with its limited resource. But the work of infrastructure development is constrained due to resource crunch of the State. As a part of its ongoing efforts, it is proposed to take up the work for construction of *High H.S schools* at *different locations in Tripura.*

4. LOCATION AND NECESSITY OF THE PROJECT:

The proposed construction is to be constructed at *different locations in Tripura (Specially in backward areas).*

The existing schools is now functioning with lesser number of rooms, where few additional rooms are required. Because of this fact, the students are suffering a lot as the school having scarcity of few rooms. More over 29 Schools under Secondary Education department merged to CBSC Board. As per CBSC norms, development of infrastructure of these schools are mandatory.

5. ESTIMATED PROJECT COST :

Estimated project cost has been derived to the tune of **Rs.52.02 Crore (Rupees Fifty Two Crore and Two lakh).**

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6. CAPACITY OF IMPLEMENTING AGENCY TO EXECUTE WITHIN DEFINITE TIME FRAME :

As stated State PWD will be involved for implementation of the project on behalf of the State Government. PWD is having well coordinated organizational set up for hauling such task which they are rendering for similar schemes, sanctioned earlier and at the implementation stage, quite satisfactory.

7. PROBLEMS TO BE ADDRESSED / ABOUT THE PROJECT :

The school authority is facing a chronic shortage of accommodations. A comfortable environment is needed for smooth running the school. Most of school buildings proposed here are in very dilapidated condition, so construction of new buildings are utmost necessity to run the teaching learning process in the schools.

Thus the main objectives of this proposal are :

- ***to cater to the need of increased number of rooms for adequate accommodation with all related facilities of students.***
- ***to improve health and hygiene through the physical construction of toilets and water points.***
- ***to create comfortable school environment.***
- ***to decrease the number of drop-out students of Education, increasing retention and also improvement in the quality of education.***
- ***to develop human resource of high quality capable of fulfilling the aspirations of the nation in the modern age through sustained growth of our economy.***

8. TARGET BENEFICIARIES :

The construction of additional building, new buildings means development of education, development of student community, [illegible] of young individuals

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It will be directly impacting on construction industries. On completion of the project it will be benefited for students. The proposed construction of *additional building, new buildings* will provide adequate building for staffs, safe drinking water, improved sanitary arrangement.

The project, if implemented, will provide better facilities for the benefit of some schools. It is expected that with the improved facilities teaching and learning processes could be organized in more effective manner. This will facilitate improving quality of education to a great extent. Moreover, with the increased intake capacity, more employees will get the administrative benefit.

9. PROJECT STRATEGY & LAND AVAILABILITY:

Required land is available for the proposed construction under the project. The land identified and selected which will be handed over to the implementing agency after sanction. The Administrative Approval and Expenditure Sanction of project will be accorded by Secondary Education Department, Govt. of Tripura. The State PWD will be involved for implementation of the project.

10. FINANCIAL AND ECONOMIC ANALYSIS:

It is a social sector project. So financial return is not possible in this project.

11. ENVIRONMENTAL IMPACT ASSESMENT:

No adverse impact will take place in the environment in construction of *additional building, new buildings* of the school. Question for diversion of forest land does not arise. Rehabilitation and resettlement is not required for construction to the sanctioned site.

12. FIRE AND EARTHQUAKE PROTECTION:

Arrangements as prescribed in the National building code of India part-IV fire protection part-V shall be made in the proposed construction. Moreover, the proposed

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construction will be designed structurally resistant to earthquake as per coddle provision.

13. SUBTAINABILITY, MAINTANANCE OF ASSETS :

The project will create permanent assets for Education Department. As the said schools are managed by State Government, the Secondary Education Department will make necessary arrangement for required maintenance of these buildings in future.

14. ON-GOING INITIATIVES :

At present, the State Government is not providing fund for construction of additional building/ new *buildings* of the school due to its financial constraints. No provision is kept in the annual plan budget for this proposal. The State Govt. has taken up few infrastructure development works of schoo under State Fund.

15. READINESS FOR IMPLEMENTAION :

The site for construction has been selected. The works of construction would be taken up just after sanction of fund under *VESIDS* is received.

16. TIME FRAME:

The project woks will be completed in 24 months.

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17. PHYSICAL AND FINANCIAL PHASING :

The physical and financial phasing of the project is indicated below:-

Name of Work	1st Year		2nd Year	
	Physical	Financial	Physical	Financial
1. Infrastructure Development of 06 (six) Unit Higher Secondary School	Clear land availab e.	20.00 Crore.		32.02 Crore.

Salient Features of the Project

Project Cost	52.02 Crore (for 06 unit)
Land	Available
Time of completion	24 (twenty four) Months/Each, from the date of commencement.
Rate	Estimated cost based on CPWD P.A.R 2019,along with a Cost Index @ 5.32% has been incorporated.
Methods	By contract after call of tenders.
Specifications	As per CPWD, Government of India, Specification for Building works.
Fund	Under *NESIDS.*

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Name of work :- Model Preliminary cost estimate for Infrastructure Development of Higher Secondary School in various locations in Tripura under NESID Scheme.

ABSTRACT OF COST

Sl. No.	Particulars of Items	Cost assessed based on CPWD P.A.R 2019			Approximate Area (in Sqm.)	Remarks
1	2	3			4	5
i	Infrastrucure development of Higher Secondary School in various locations in Tripura	Rs.	841.67	lakhs	1,955.10	Annexure-I
	Total	Rs.	841.67	lakhs		
Add 3% contingencies		Rs.	25.25	lakhs		
	Say	Rs.	867.00	lakhs	(For One Unit)	
	For 06 Unit	Rs.	52.02	Crore		

Junior Engineer
Secondary Education Department
Agartala, West Tripura

Executive Engineer
Secondary Education Department
Agartala, West Tripura

Superintending Engineer
Secondary Education Department
Agartala, West Tripura

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Annexure-I

Preliminary Cost Estimate

Name of work :- Model Preliminary cost estimate for Infrastructure Development of Higher Secondary School in various locations in Tripura under NESID Scheme.

Sl. No.	CPWD PAR-2019	Particulars of Items	Quantity (in sqm)	Rate per sqm (in Rs.)	Amount (in Rs.)
1	1	BUILDING COST (specifications as per Annexure-II)			
	1.1	RCC FRAMED STRUCTURE (Upto Six Storeys)			
	1.1.1	Floor ht. 3.60 m	1,955.10	25,500.00	4,98,55,050.00
2	1.3	**EXTRA FOR**			
	1.3.2	Every 0.3 m. additional/lesser height of floor above normal floor height of 3.60 m. (3.90 m.	977.55	335.00	3,27,479.25
	1.3.3	Every 0.3 m. higher plinth over normal plinth height of 0.45 m. (on G.F. area only.)	977.55	335.00	3,27,479.25
	1.3.4	Every 0.30 m. deeper foundations over normal depth of 1.20 m. (on G.F. area only.)	977.55	160.00	1,56,408.00
	1.3.6	Resisting earthquake forces	1,955.10	1,200.00	23,46,120.00
	1.3.8	Pile foundation (On gross floor area only)	977.55	16,666.67	1,62,27,330.00
3	2	**SERVICES**			
	2.1	INTERNAL WATER SUPPLY AND SANITARY INSTALLATIONS	5% of the building cost		24,92,752.50
	2.2.1	EXTERNAL SERVICE CONNECTION.	3.75% of the building cost		18,63,564.38
	2.3	INTERNAL ELECTRIFICATION. School buildings / Institutions with laboratories	12.50% of the building cost		62,37,881.25
4	5	**Water Tank (RCC only)**			
	5.1	Overhead tank without independent staging	1,500.00 Rs. 18 Per Litre		27,00,000
	5.5	Underground sump	3,00,000.00 Rs. 18 Per Litre		54,00,000
		SUB TOTAL :-			7,99,15,064.63
		Add Cost Index @ 5.3.2% on CPWD-2019 to arrive at present price level of Sep 2020			42,51,481.44
		GRAND TOTAL :-			8,41,66,546.06
				Say	841.67 lakhs

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Name of work :- Model Preliminary cost estimate for Infrastructure Development of Higher Secondary School in various locations in Tripura under NESID Scheme.

Area of Construction

School Building		Area in Sqm		Floor Height
		Ground Floor	Total	
Infrastrucnre development of Higher Secondary School in various locations in Tripura	=	1,955.10	1,955.10	3.35 mtr.
TOTAL		1,955.10	1,955.10	

30/11/2021

Junior Engineer
Secondary Education Department
Agartala, West Tripura

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Annexure-II

Name of work :- Model Preliminary cost estimate for Infrastructure Development of Higher Secondary School in various locations in Tripura under NESID Scheme.

Category of Class		Steam	No. of Students	No. of rooms required	Existing no. of rooms	No. of rooms required	Approximate Sizes of room including Verandah		
							Length (in Meter)	Breadth(in meter)	Area (in Sqm.)
Class Room	Class-VI			1					
	Class-VII			1					
	Class-VIII			1					
	Class-IX			1					
	Class-X			1					
	Class-XI	Science		1					
		Arts		1	0	12	7.00	9.80	823.20
		Commerce		1					
	Class-XII	Science		1					
		Arts		1					
		Commerce		1					
		Total student							
	Add Additional rooms			1					
	Total no. of Class room required			12					
HM Room				1	0	1	7.00	9.80	68.60
AHM Room				1	0	1	7.00	9.80	68.60
Computer Room				1	0	1	7.00	9.80	68.60
Staff room				2	0	2	7.00	9.80	137.20
Office Room				1	0	1	3.50	9.80	34.30
Science Lab				3	0	3	7.00	9.80	205.80
Art and Craft Room				1	0	1	7.00	9.80	68.60
Library				1	0	1	10.50	9.80	102.90
Kitchen Room				1	0	1	3.50	9.80	34.30
Dining Room				0	0	0	7.00	9.80	0.00
			Total	23	0	23			
Toilet						6	3.50	9.80	205.80
Staircase						2	3.50	9.80	68.60
Lobby						2	3.50	9.80	68.60
							Total area required(approx.)		1955.1

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Janpath Bhawan, Middle "B" Wing,
6th Floor, Janpath, New Delhi.
Dated: 14.10.2021

OFFICE MEMORANDUM

Subject: Model Preliminary cost Estimate for Infrastructure Development of 6 (Six) Unit Higher Secondary School in various locations in Tripura under NESID Scheme.

Please refer to your Office Memorandum No. NESIDS/6/2021-O/o US (NKS) dated 14.10.2021 vide which Project Proposal of the following project has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl. No	Name of the Project	Project Cost (In crores)	Comments
1.	Model Preliminary cost Estimate for Infrastructure Development of Higher Secondary School in various locations in Tripura under NESID Scheme.	20.00	(a) This estimate is based on CPWD PAR-2019, however, CPWD PAR -2020 & CPWD PAR- 2021 has been published by CPWD, (b) The provision for extra for Resisting Earthquake Forces @ Rs.1200/- per sqm has been taken which is not admissible as this provision is already included in the Plinth Area Rates.The same is clearly mentioned in CPWD PAR-2020. (b) The provision for Extra for Pile Foundations @ Rs 16600/- per sqm has been taken. State Govt. may be asked to send the bearing capacity of soils of the said schools and justifications. (c) The provision for extra for deeper Foundation @ Rs.160/- per sqm for area (977.55 Sqm) has been taken which is not admissible if pile foundation is provided. (d) The provision @3.00% on account of contingency has been taken. Program division may like to see.

This issued with the approval of Superintending Engineer (TW).

14/10/2021
(Parveen Kumar)
Executive Engineer (TW)

To

Shri Akhilesh Kumar Pandey, US, M/o DoNER, R.K. Puram, New Delhi.

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