

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 26th August, 2021

OFFICE MEMORANDUM

Subject: Minutes of the 30th meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 18.08.2021 at 03:00 p.m. under the Chairmanship of Secretary, Ministry of DoNER.

The undersigned is directed to forward herewith minutes of the 30th meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 18.08.2021 at 03:00 p.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.


(N.K. Saha) 26/8/21

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. Additional Secretary & Financial Adviser, Ministry of DoNER.
- vii. Sr. Economic Adviser, Ministry of DoNER.
- viii. Joint Secretary (NLCPR/NESIDS), Ministry of DoNER.

Copy to:-

Chief Secretary of Sikkim - **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(IFD), MDoNER.
- v. Sr. Technical Director (NIC), MDoNER.
- vi. PPS to Secretary, MDoNER.

Minutes of the 30th meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 18.08.2021 at 3:00 p.m. under the Chairmanship of Secretary, Ministry of DoNER through Video Conferencing (VC).

The 30th meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee was held on 18.08.2021 at 3:00 p.m. to discuss project proposal received from State Government of Sikkim for consideration for sanction under NESIDS. Chief Secretary of the Government of Sikkim co-chaired the meeting. List of participants is at **Annexure-A**.

2. At the outset, Secretary, M/o DoNER welcomed Chief Secretary, Sikkim and members of IMC/NESIDS Committee, representatives of State Government and line Ministries of the Government of India. The Committee was apprised that the proposal was not taken up for consideration in the last IMC/NESIDS Committee meeting held on 20.07.2021 as Chief Secretary, Sikkim & his team could not join the meeting due to some technical glitches in the V.C. system. Thereafter, the Committee took up the project proposal of Sikkim for detailed discussion and recommendation as detailed below:

Sikkim

3. **Procurement of equipment for strengthening of Bio-medical Waste Management (BWM) system & High Flow Nasal Oxygen (HFNO) system at estimated cost of Rs.5.33 crore- For Sanction.**

3.1 The Chief Secretary, Sikkim alongwith the officials of the State Government participated in the meeting through VC. Representative of the State Government briefed about the project and underlined its importance for better handling and timely disposal of the bio-medical waste in the present situation to enable the State to meet the challenges of Covid-19 pandemic.

3.2 The project proposal of State Government of Sikkim was supported by NITI Aayog, Ministry of Health & Family Welfare, IFD, MDoNER and other stakeholders.

3.3 After due deliberation, the Committee recommended the project 'Procurement of equipment for strengthening of bio-medical waste management (BWM) system & High Flow Nasal Oxygen (HFNO)' system for sanction under NESIDS at an estimated cost of Rs.5.33 crore.

The recommendation is subject to all the general conditions/ observations made in the minutes of the 29th IMC/NESIDS Committee, especially those pertaining to procurement of equipment through GeM/competitive bidding process, specifications of equipment prescribed by M/o. H&FW etc.

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

4. With the above sanction, the position of the Normative Allocation/ available allocation of the NER States under NESIDS for FY 2021-22 is 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 VII	
(I)	(II)	(III)	(IV)	(V)	(VII)	(VII)	(VIII)
Arunachal Pradesh	80.84	0	0	0	0	0	80.84
Assam	171.95	1	28.70	0	0	0	143.25
Manipur	61.78	4	49.41	1	4.18	4.18	8.19
Meghalaya	66.60	1	3.65	0	0	0	62.95
Mizoram	64.50	3	5.59	0	0	0	58.91
Nagaland	63.01	0	0	0	0	0	63.01
Sikkim	42.17	1	5.33	0	0	0	36.84
Tripura	68.14	1	19.32	1	35.99	35.99	12.83
Total	619.00	11	112	2	40.17	40.17	466.82

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

Annexure-A

30th meeting of Inter-Ministerial Committee (IMC)/NESIDS Committee held on 18.08.2021

List of Participants

Sl. No.	Organization	Officers attended
1.	Members of Inter Ministerial Committee/NESIDS Committee/their representatives	Dr. Inder Jit Singh, Secretary, M/o DoNER (in Chair) Shri S.C. Gupta, Chief Secretary, Govt. of Sikkim (co-chair), on VC. Shri C. Rajasekhar, OSD, Ministry of External Affairs, on VC Shri T. Kabilan, Director (NE States Division), NITI Aayog, on VC Shri R.K. Pandey, DS (NE Division), Ministry of Home Affairs, on VC
2.	Other Special Invitees from Line Ministries	Shri Elangbam Robert Singh, Director, Ministry of Health & Family Welfare, on VC
3.	Government of Sikkim	Shri V.B. Pathak, Addl. Chief Secretary, Govt. of Sikkim, on VC Shri K. Sreenivasulu, Additional Chief Secretary, M/o Health & Family Welfare, on VC Shri S.D. Dhakal, Secretary, CMO, on VC Shri M. Sharma, Secretary-cum-Comptroller of Accounts, Finance Department, on VC Shri Milan Kumar, Controller of Accounts, on VC. Shri Passang T Bhutia, Joint Director, Planning & Development Department, on VC
4.	Ministry of DoNER, GoI	Shri S. D. Meena, Deputy Secretary Shri G.S. Maheshwal, Superintending Engineer, Technical Wing Shri Purushottam Verma, Deputy Secretary (IFD) Shri N.K. Saha, Under Secretary Shri Mahesh Chander, Assistant Section Officer Shri Viveka Nand, Senior Secretariat Assistant

Annexure I

30th meeting of IMC/NESIDS Committee/NLCPR scheduled on 18.08.2021

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

Agenda Item No.:		State: Sikkim
Name of Project: Procurement of equipments for strengthening of Bio-medical Waste Management (BWM) system & High Flow Nasal Oxygen System (HFNO).		
Project Description/Summary (not exceeding 200 words): Medical waste can be infectious, causing high contamination and cross contamination risks to both people and environment. It must be properly managed and disposed of to protect the environment, general public and workers, especially healthcare and sanitation workers who are at risk of exposure to biomedical waste as an occupational hazard. The existing waste management systems of the State is overloaded in this Covid-19 pandemic as huge quantity of infectious wastes are generated in health facilities, Covid care centre, and quarantine centres.		
Stage 2: Sanction of the Project		
1	PART A	
1	General Information	
1.1	Project Cost (as per Final Proposal)	Rs.5.33 crore
1.2	Whether lying in backward areas	No
1.3	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)	Health Sector
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	Yes, it is a new project. The project has not been proposed to any other Ministry.
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	Rs. 42.17crore (FY 2021-22)

	IMC/NESIDS/HADP meeting no. and date in which retention/selection approved	(Relevant extract at Annexure-28th IMC/NESIDS meeting held on 02.06.2021)		
PART B				
1	Date of receipt of final proposal for sanction from State Government (SG)			
1.1	Original	31.05.2021		
1.2	Revised (if any)	No		
1.3	Is the proposal accompanied with following documents:			
	(a) Techno-Economic vetting of DPR by SLEC	Yes		
	(b) Abstract of Cost signed by Competent Authority	Yes		
	(c) Minutes of SLEC meeting	Yes		
	(d) Requisite certificates			
	(e) Any other (specify)	Technical Evaluation Report		
1.4	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 Rs.)		
	Particulars	Qty.	Rate	Amount
a	(1) Incinerator having 50 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new STNM hospital complete with erection and commissioning	1	19508109.00	1,95,08,109.00
b	(2) Incinerator having 15-20 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new STNM hospital complete with erection and commissioning	1	18197529.00	18197529.00
c	(3) Horizontal Auto Clave (Rectangular) 450 ltrs for Biomedical BMW management	5	935000.00	4675000.00
d	(4) Shredder 15-20 kg	1	500000.00	500000.00
e	(5) High flow Nasal Oxygen (HFNO) Machine			
f	i) Adult	5	245000.00	1225000.00
	ii) Paediatric	5	245000.00	1225000.00

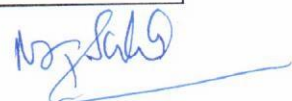
	Total	45330638.00
g	GST @12% on Sl.No.5 i.e. Rs.2450000.00	294000.00
h	GST @ 18% on Sl.No.1,2,3 & 4 i.e. Rs.42880638.00	7718514.84
i	Total	53343152.84
j	Say	53343153.00
1.4 A	SG's Contribution in the Project Cost, if any	No
1.4 B	Contribution of any other Ministry/Agency in the Project Cost, if any	Nil
1.5	Is the scope of work in Final proposal for sanction same as in concept paper/ 'in principle' approval granted at stage 1 (if not, specify the variations in brief, with reasons/justification for the same given by SG)	Project proposal is same.
1.6	Has the techno-economic appraisal of DPR been done by the designated institution	DPR has not been vetted by expert group as mandated by IMC/NESIDS Committee.
1.7	Is the cost indicated in the Final proposal/Abstract of Cost based on latest SOR	Not applicable as the project does not involve construction works.
1.8	Has the SG agreed to bear the entire cost of land acquisition and staff component (if any)	SG has not requested fund for such components. O&M will be responsibility of the State Govt.
1.9	Has the SG agreed to meet the entire cost of maintenance of asset(s) created under the scheme	Not available. However, maintenance of asset as per NESIDS guideline is responsibility of SG.
1.10	Is the project at single location or at multiple locations	Not available
1.11	Has the DPR, after its techno-economic appraisal by designated institution being vetted by SG from techno-economic angle	DPR has not been vetted by expert group as mandated by IMC/NESIDS Committee.
1.12	Has the SLEC recommended the project for sanction accompanied with all requisite specific clearances like forest and environment, land acquisition, non-duplication certificate, availability of stone quarry etc. along with appraisal report	Yes, the project is recommended by SLEC. Signed Cost estimate furnished

2	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	28.06.2021	07-07-2021
	Technical Wing, MDoNER	28.06.2021	30.06.2021
	Ministry of Health & Family Welfare	28.06.2021	16.07.2021
	NITI Aayog	28.06.2021	14-06-2021
3	Comments of line Ministry/IFD/Technical Wing/Others in brief (attached as per Annexure____)		
4	Important observations/comments of Prog. Division		
	Properly managing and disposal of infectious or biohazardous waste is necessary for environment and frontline workers especially the healthcare workers. According to the recommendations of WHO and other health organizations, hazardous medical waste should be treated as close as possible to the point of its production. After due scrutiny, the PD recommends the proposal for consideration in the IMC.		

for SubG
9.8.2021

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)	Ministry of Health & Family welfare	Supported by MoH&FW		
(ii)	NITI, Aayog	The project proposal is supported if the procurement is in line with MoHW and IFD rules.		
(iii)	IFD, MoNER	IFD is of the view that no new project should be considered for selection and approval in anticipation of the approval for continuation of the existing scheme/approval of new scheme by the Competent Authority.		MoF, DoE vide its OM No.72(12)IPFC-I/2017 dated 03.06.21 has already accorded its interim approval for expenditure of 50% of FY 21-22 allocation upto Sept., 21 strictly for Covid related health infrastructure works and ongoing works under three schemes of MDoNER including NESIDS.
(iv)	TW, MoDoNER	Supported by TW/MDoNER		



**MINUTES OF THE 4TH STATE LEVEL EMPOWERED COMMITTEE
(SLEC) MEETING FOR NESIDS/NLCPR HELD ON 08.06.2021**

Venue: Teesta Lounge, Tashiling Secretariat, Gangtok

Time: 11.00 A.M, attendance sheet is attached.

The 4th SLEC Meeting for NESIDS/NLCPR, chaired by the Chief Secretary, Govt. of Sikkim, was held in the Teesta Lounge, Tashiling Secretariat on 08.06.2021 for vetting of the following projects:

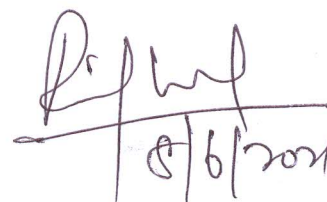
- 1 **“Procurement of Equipments for strengthening of Bio-Medical Waste Management (BWM) system and High Flow Oxygen System (HNFO) in Sikkim with estimated cost of ₹ 5.33 Crore**

At the outset, Additional Chief Secretary-cum-Development Commissioner, Planning & Development Department welcomed the Chief Secretary and Chairman of the SLEC. A power-point presentation of the project was presented by the officers of the Health and Family Welfare Department for the above project.

The Secretary, Health & FW Department gave the details of the project in relation to the State's fight against Covid-19 and subsequently for better preparedness of the health sector.

The Committee after detailed deliberations recommended the DPRs for consideration under NESIDS.

The SLEC recommended the above proposal to be forwarded to the Ministry of DoNER for consideration.






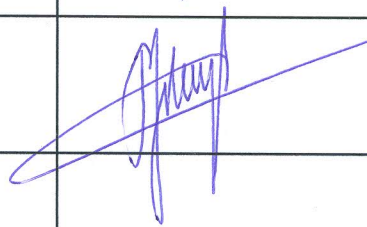


Handwritten signature and date: 8/6/2021

4th STATE LEVEL EMPOWERED COMMITTEE (SLEC) MEETING on NESIDS/NLCPR

8th June 2021

VENUE :TEESTA LOUNGE, TASHILING SECRETERIAT

SL.NO.	NAME	DESIGNATION	SIGNATURE
1	Shri S C Gupta, IAS	Chief Secretary, GoS	
2	Shri V B Pathak, IAS	Additional Chief Secretary cum Dev. Comm.	
3	Shri V B Pathak, IAS	Additional Chief Secretary Finance Department	
4	Karun K Pradhan	Secretary (Power Dept)	
5	B. Prasad.	PEF- Secy. PHE	
6	Dr. Pampa T. Bhunia	DG cum Secy H&FW.	
7			
8			
9			
10			
11			
12			
13			



GOVERNMENT OF SIKKIM
PLANNING AND DEVELOPMENT DEPARTMENT
GANGTOK

Ref.No. 800 p/20

Dated: 9/6/2021

To,

Shri Saurabh Endley
Joint Secretary,
Ministry of DoNER,
Government of India,
Vigyan Bhawan Annexe,
Maulana Azad Road,
New Delhi 110 011.

Subject : DPR for "Procurement of Equipments for strengthening of BioMedical Waste Management System and High Flow Nasal Oxygen (HFNO) System".

Sir,

I am directed to forward the DPR for "Procurement of Equipments for strengthening of Bio-Medical Waste Management System and High Flow Nasal Oxygen (HFNO) System" amounting to ₹ 5.33 Cr.

The 4th State Level Empowered Committee (SLEC) Meeting for NESIDS / NLCPR held on 8th June 2021 under the Chairmanship of the Chief Secretary has vetted and recommended the proposal. The Minutes and Attendance of the above meeting is enclosed.

Therefore, the proposal amounting to ₹ 5.33 Cr may kindly be sanctioned under NESIDS at the earliest.

Yours sincerely,

(Rinzing Chewang)

Secretary

P & D Department

Encl. a.a.



HEALTH & FAMILY WELFARE DEPARTMENT

GOVERNMENT OF SIKKIM

DETAILED PROJECT REPORT
FOR
PROCUREMENT OF EQUIPMENTS
FOR STRENGTHENING OF
BIOMEDICAL WASTE
MANAGEMENT SYSTEM
&
HIGH FLOW NASAL OXYGEN (HFNO)
SYSTEM

CONTENTS		
SL NO	PARTICULARS	PAGE NO
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8	HFNO SPECIFICATION(AIRBLEND)	25

The first Hospital was established in the year 1917 by then Chogyal Sir Tashi Namgyal. It was with 10 beds in patient, which became centre of medicine in Sikkim though it was initially poorly equipped. But in ensuing decades down, Sikkim has made significant progress in providing health care services to the people of state., The vision is to foster a healthy society through provision of quality health care services for all its citizens from womb to tomb and to reach up to the remotest village of Sikkim. There have been manifold improvement in infrastructures, capacity building, manpower placement and in delivery of comprehensive services through the network of:

1. **147** Primary Health Sub Centers(PHSC)
2. **24** Primary Health Centers(PHC)
3. **2** Community Health Centre(CHC)
4. **1000** Bedded New STNM Hospital.
5. **500**bedded Central Referral Hospital cum Medical College set up in collaboration with Manipal Pai Foundation Group under private management.

The remarkable milestones achieved by Government of Sikkim in health sector is reflected by drastic change in many health indicators i.e. rapid fall in Crude Death rate, Improvement in Infant Mortality Rate, Complete immunization ,improvement in institutional Deliveries etc.

With the inclusion of Sikkim in North East Council, health department is continuously getting benefit in the field of increase in manpower like MBBS,BDS

specialist Doctors and Infrastructural developments as well as procurement of critical equipments.

OBJECTIVE OF THE PROJECT:

Medical waste are generated in huge quantities with up gradation of health facilities in the state and poses great challenges to the health & Family Welfare department, Government of Sikkim .

Biomedical wastes, are those potential hazardous waste materials that consist of solid, liquid, sharps and laboratory wastes which pose grave danger to the health of humans as well as other living organisms. And in some cases, it may be lethal too. It is of extreme importance that this waste must be properly managed and disposed off safely so as to prevent outbreak of infections to general public and disturb the health care setting in a society. It is essential to understand what biomedical waste is, there classification and management accordingly. In this paper, a concise effort is undertaken so as depict biomedical waste substances generated, their origin and the method to deal with them effectively.

CLASSIFICATION OF HOSPITAL WASTE:

- **General waste:** the waste generated from office, administrative office kitchen, laundry and stores. This waste is non-hazardous to human beings.
- **Sharps:** Hypodermicsyringes, needles attached to tubing, scalpel blades, razor, nails, broken glass pieces, etc

- **Infected waste:** Equipment and instruments used for diagnostic and therapeutic procedures, waste from surgery like tissues and organs removed and autopsy.
- **Chemical waste:** Formaldehyde used for preserving tissues and organs, fixer and developers used in radiology department. Solvent like Xylene, acetone, ethanol and methanol used in the laboratories.
- **Radioactive waste:** Various radioactive waste generated through the activities of the department like research activity, clinical laboratory and nuclear medicine department.
- **Cytotoxic drugs:** Anti-cancer drugs Categories of Biomedical waste:

WASTE SEGREGATION&TREATMENT CHART AS PER BMW RULES

COLOUR CODES	CONTAINER	WASTE CATEGORY TYPE	TYPE DESCRIPTION	TREATMENT
YELLOW	Yellow Bucket with Yellow coloured Non-Chlorinated Plastic Bags	Infectious Waste	<ul style="list-style-type: none"> ➤ Human Tissue, Organs & body parts ➤ Animal Waste ➤ Microbiological & biotechnology waste 	Incineration

			<ul style="list-style-type: none"> ➤ Items contaminated with blood & body fluids ➤ Dressings 	
RED	Red Bucket with Red Plastic Lining Bags	Infectious Waste	<ul style="list-style-type: none"> ➤ Disposable items like infected I.V. set/bottles ➤ Catheters/Ryles tubes ➤ Cannulas/Urinary Bags ➤ Cut syringes ➤ Gloves ➤ Infected Disposable plastic waste (<i>Laboratory</i>) 	Microwaving Autoclaving Chemical Disinfection
WHITE	Puncture Proof Container	Sharp Waste	<ul style="list-style-type: none"> ➤ Needles, Syringes ➤ Needles tip cutter or burner scalpels ➤ Blades or any other contaminated sharp objects ➤ Discarded and 	After disinfection/s trained and disposed in the designated sharp pit

			contaminated metal sharps	
BLUE	Cardboard Boxes with Blue colour marking	Glassware Waste	<ul style="list-style-type: none"> ➤ Broken or discarded contaminated glass including medicines, vials & ampoules except those contaminated with cytotoxic wastes ➤ Laboratory slides 	Disinfection (by soaking the washed glass waste after cleaning with detergent & sodium hypochlorite treatment) or through autoclaving or microwaving and then sent for recycling
BLACK	Black Bucket with Black Lining Bags	General Waste	<ul style="list-style-type: none"> ➤ General office waste ➤ Packaging materials ➤ Non-contaminated waste ➤ Left Over food 	Common General Waste & Final disposal in Municipal Bins

Biomedical waste management plays vital role in preventing any outbreak of infectious diseases and protecting the society from transmission of these diseases. Here are few benefits that biomedical waste management programs provide:

Hygienic and healthy environment in medical center

- Low incidence of community and occupational health hazard
- Low impact on ecological system
- Potential epidemics are prevented
- Improved public health and cleaner environment .
- Improve image of the healthcare establishment and increased quality of life

NEED AND IMPORTANCE OF THE PROJECT:

The COVID-19 pandemic has burdened state's already stressed waste management system. COVID-19 related bio-medical waste includes personal protective equipment (PPE), gloves, face masks, head cover, plastic coverall, helmet suit, syringes among other gears and medical equipment used by both healthcare providers and patients. The amount of COVID-19 related bio-medical waste has been on the rise. Covid waste is generated in Covid Hospitals,dedicated Covid care Centers,home quarantine, and other non healthcare establishment like salons,hotels and home.

Some of the existing practices for disposal of theses waste attract lot of public and academicians objection in view of open dumping of the waste, obnoxious order and flies menace etc. It also poses great risk of ground water contamination due to

percolation. Finding a scientific solution to the BMW disposal problem is prime consideration of the Government as it is connected with public health issues.

Hence in order to deal BioMedical Waste(BMW)management efficiently and in more scientific way, Health & Family welfare Department Government of Sikkim has proposed to strengthen existing BMW management system in the state by adding following equipments for waste treatment

INCINERATOR

Incineration is a thermo-decomposition process where the components present in the waste stream are ionized into harmless elements at a higher temperature in the presence of oxygen. Particularly, it involves converting waste materials into ash, flue gas, and heat. The ash mostly consists of inorganic components of waste and can be in the shape of solid lumps or particulates carried by the flue gas. The flue gases are supposed to be cleaned of particulate and gaseous contaminants before being released into the air.



INCENERATOR

Incineration System of the Biomedical waste consists of the following:

- Primary Chamber
- Post Combustion Chamber(Secondary Chamber)

Primary Chamber is a cylindrical furnace duly lined with refractory materials of adequate thickness. A hearth is located inside the furnace on which the waste burns continuously. The air is admitted through manifold located at the bottom of the furnace. Auxiliary fuel, LDO/HSD is fired through the burner. The main function of the chamber is to burn the waste in starved conditions. The temperature of the furnace is raised to $850 \pm 50^{\circ}\text{C}$.

Secondary chamber is vertical cylindrical side fired furnace located adjacent to primary chamber and the main function is to complete combustion of organic

volatiles/smoke coming from primary chamber. This is achieved by raising temperature of gas to 1050+/- 50°C.

The gas coming out of the secondary chamber at 1050 is diluted , cooled and quenched /scrubbed in venture scrubber. Flue gas is cooled by thoroughly mixing with water.

Advantages of Waste Incineration

1. Decreases Quantity of Waste
2. Efficient Waste Management
3. Reduction of Pollution
4. Incinerators Have Filters For Trapping Pollutants
5. Saves on Transportation of Waste
6. Provides Better Control Over Odor and Noise
7. Prevents the Production of Methane Gas
8. Eliminates Harmful Germs and Chemicals
9. Incinerators Operate in Any Weather
10. Effective Metal Recycling
11. It has a Computerized Monitoring System
12. Uses of Ash
13. Occupies Relatively Small Space

14. Uncontaminated Groundwater

EXISTING INCINERATOR

At present 1000 bedded New STNM hospital has one incinerator with installed capacity of 50kg /hr burn rate only and is insufficient even during normal functioning period of hospital. It is overloaded due to accumulation of huge quantity of Infectious waste generated in Covid care centres, quarantine centres in and around the capital. The machine breaks down frequently due to continuous operation for extended period of time causing backlogs of waste. Hence, one additional Incinerator with capacity 50 Kg /hr burning rate is proposed for New STNM Hospital, East Sikkim.

The other incinerator is proposed for Gyalzing District Hospital located at west Sikkim. The hospital being 100 bedded , incinerator with the capacity of



EXISTING INCINERATOR OF GYALZING HOSPITAL

15-20 kg/hr is proposed. The existing incinerator was installed in the year 2003 and is in dilapidated condition. It has outlived the serviceable life.

AUTOCLAVE MACHINES:

An autoclaving machine is a device that sterilizes regulated medical waste. It uses steam heated to approximately 300 degrees Fahrenheit to achieve this sterilization. The machines can be set at different temperatures and run through a number of cycles. Some autoclaves offer numerous functions, such as special cycling or vacuum functionality. The key to sterilization in a medical setting requires heat. Lots of heat. Steam is extremely effective in producing the heat required to kill microbes. It achieves this by breaking down cellular proteins and causing them to coagulate. The length of time it takes for an autoclave to sterilize an object depends on the temperature of the steam.. That waste is put into the machine on carts, the door is shut, and steam temperatures set up to 300° kill infectious or hazardous microbes in timeframes averaging 30 minutes to an hour. Afterward, the waste is considered non-infectious. Because it doesn't pose a bacterial or infectious threat, it can be treated as solid trash and shipped out on a non-hazardous manifest to a non-hazardous landfill.

Medical waste autoclaves are used specifically for regulated medical waste, which involves anything contaminated by blood, bodily fluids, or other potentially infectious materials. That includes:

- Used medical sharps and sharps containers.
- Bloody bandages or gauze.
- Masks or gowns ,PPE(worn by doctors or patients).

This regulated waste is sometimes referred to by several other names, including red bag waste and bio hazardous material.



RECTANGULAR HORIZONTAL AUTOCLAVE

Total 5(Five) number of 450 ltrs rectangular horizontal autoclave is proposed for following health facilities of the state.

1. New STNM Hospital,Gangtok
2. Namchi District Hospital,South Sikkim
3. Singtam District Hospital,East Sikkim
4. Gyalzing District Hospital,West Sikkim
- 5 Mangan District Hspital,North Sikkim.

There is only one autoclave designated for biomedical waste at New STNM hospital. Considering amount of waste generated , it is felt necessary to provide

one more machine to STNM for smooth management .The other four is for District hospitals since there is no designated autoclave for BMW management in District hospitals till date.

SHREDDER.

One of the major reason for spreading of infections from biomedical waste is reusing of waste discarded by the health care establishments. To avoid such infections, the autoclaved medical waste categories are shredded to pieces before being disposed or recycled.



SHREDDER

Shredders are used to destroy plastic and paper waste to prevent their reuse. The function of a shredder is to mutilate the already disinfected waste.

The shredder is usually used in combination with an autoclave or a microwave. It could be used in individual institutions or in common treatment and disposal facilities. This also reduces the bulk of waste making transportation easy. The waste is fed into a hopper leading to a set of revolving blades/shafts that cut the

waste into small pieces. These pass through a mesh and are collected at the bottom. Larger particles retained on the mesh are once again passed through the cutters. The slow moving high torque shredders are less likely to need maintenance than the high speed granulators. These machines do not have frequent problems with the shafts or blades because of their slow movement and need do not undergo wear and tear that should necessitate periodic replacement.

Common categories of Bio-medical waste that need to be shredded are:

- 1 Syringe
- 2 Saline Bottles
- 3 IV Tubes
- 4 Catheters
- 5 Other Plastic Tubing

One Shredder with a capacity of 15-20 kg is proposed for District Hospital Singtam, East Sikkim as the existing one is quite old and irreparable.

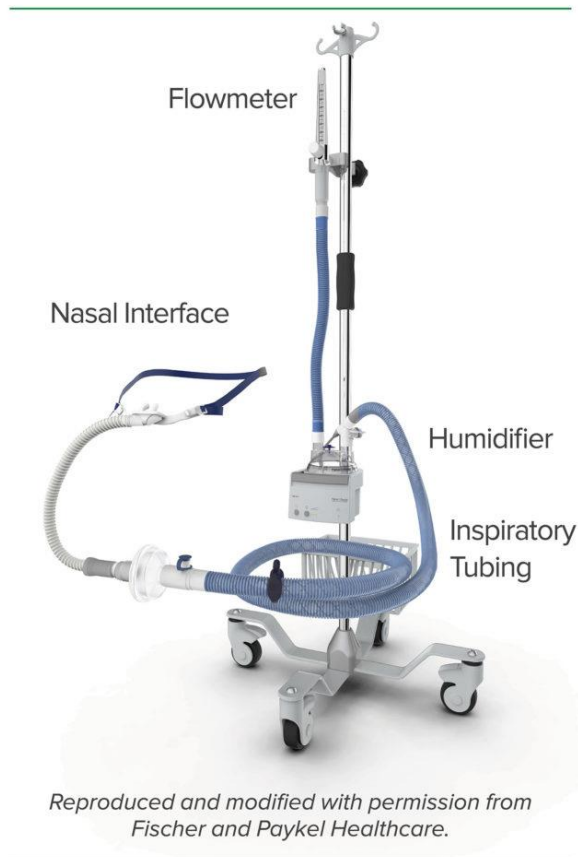
HIGH FLOW NASAL OXYGEN SYSTEM

High-Flow Nasal Oxygen Treatment is a non-invasive respiratory support therapy that delivers warm, humidified, oxygen-enriched air to patients, usually using a nasal cannula. Typically used in spontaneously breathing patients who typically require oxygen at higher flow rates. It can provide respiratory support of patients with acute hypoxemic respiratory failure and prevent subsequent intubation when used correctly. This greatly enhances patient comfort and ease of use.

High-flow nasal oxygen (HFNO) is delivered by an air/oxygen blender, an active humidifier, a single heated circuit, and a nasal interface. It delivers adequately heated and humidified medical gas at flow-rates of up to 60 L/min, and is

considered to have a number of physiological benefits, including the reduction of anatomical dead space and work of breathing, the provision of a constant fraction of inspired oxygen with adequate humidification and a degree of positive end-expiratory pressure (PEEP). Although HFNO was originally utilised in neonatology, its use has extended to adult critical care.

HFNO System



Oxygen therapy is recommended for all severe and critical COVID-19 patients, with low doses ranging from 1-2 L/min in children and starting at 5 L/min in adults with nasal cannula, moderate flow rates for use with venturi mask (6-10 L/min); or higher flow rates (10-15 L/min) using a mask with reservoir bag. In addition, oxygen can be delivered at higher flow rates and in higher concentrations, using

high-flow nasal cannula (HFNC) devices, non-invasive ventilation (NIV) and invasive ventilation devices.

Keeping in view the recent surge of Covid -19 cases in the State and its severity ,12(Twelve) number of HFNO machines (i.e 5 Adult & 5 Pediatric) is proposed for new STNM Hospital.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX



**GOVERNMENT OF SIKKIM
HEALTH & FAMILY WELFARE DEPARTMENT
GANGTOK-737101**

**DIVISION: MECHANICAL
YEAR :2021-22**

**NAME OF WORK:ESTIMATE FOR PROCUREMENT OF EQUIPMENTS FOR
STRENGTHENING OF BIOIMEDICAL WASTE MANAGEMENT (BMW) SYSTEM & HIGH
FLOW NASAL OXYGEN(HFNO) SYSTEM .**

Sl no	Particulars	Qty		Rate(Rs)	Amount(Rs)
1	Incinerator having 50 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new STNM hospital complete with erection and commissioning	1	no	19508109.00	19508109.00
2	Incinerator having 15-20kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for District hospital complete with erection and commissioning	1	no	18197529.00	18197529.00
3	HorizontalAutoclave(Rectangular) 450 ltrs for Biomedical BMW management	5	nos	935000.00	4675000.00
4	Shredder 15-20 kg	1	no	500000.00	500000.00
5	High flow Nasal Oxygen(HFNO) Machine				
	i)Adult	5	nos	245000.00	1225000.00
	ii)Paediatric	5	nos	245000.00	1225000.00
				TOTAL	45330638.00
	GST @12 % on sl no 5 i.e	Rs.		2450000.00	294000.00
	GST @18 % on sl no 1,2,3,4 i.e	Rs.		42880638.00	7718514.84
				TOTAL	53343152.84
				SAY	53343153.00

(Rupees Five Crore Thirtyfour lakh forty three thousand one hundred fifty three)only

Divisional Engineer(Mech)
Health & Family WelfareDepartment
Govt of Sikkim

Additional Chief Engineer(Mech)
Health & Family WelfareDepartment
Govt of Sikkim

THERMAX LIMITED, ENVIRONMENT HOUSE, PLOT NO. 90-92, BG BLOCK, MIDC BHOSARI, PUNE 411026, INDIA
TEL NO: 020-67156000, 67156222 FAX NO: 020-67156662

Water & Waste Solutions



Quotation / Proforma Invoice	
To, The Additional Chief Engineer (M)	
Health Dept, Govt of sikkim	
Gangtok, East Sikkim	
Description	Unit Price in Rs.
Incinerator having 50 Kgs/hr capacity complying to the emission norms specified in BMW Rules 2016 for Hospital at Namchi as per our STD Technical offer	89,43,000.00
Accessories for the Incinerator	11,00,000.00
Self supported Mild steel rubber lined chimney of 250 mm top dia and 30 Mtr height alongwith Interconnecting ducting between ID fan and Chimney	17,05,000.00
Continuous Emission monitoring system (CEMS) for measuring parameters specified in BMW Rules 2016	33,00,000.00
Accessories for the CEMS	9,90,000.00
Erection and Commissioning	16,50,000.00
Sub Total	1,76,88,000.00
Packing @2%	3,53,760.00
Sub total	1,80,41,760.00
Freight / Transportation for Incinerator and Chimney	14,08,000.00
Transit Insurance	58,349.28
Total Price	1,95,08,109.28
GST@18%	35,11,459.67
GRAND TOTAL	2,30,19,568.95
RS. TWO CRORE THIRTY LACS NINETEEN THOUSAND FIVE HUNDRED SIXTY EIGHT ONLY	
Payments terms	
Supply :	
30% advance alongwith order	
10% against drawing submission.	
60% alongwith 100% taxes and duties against proforma Invoice prio to disptach on Pro rata basis.	
Erection and commissioning :	
50% advance against site mobilization	
50% within a week of completion of work against Running bills	
Delivery	
Dispatch - Within 6 months of the date of receipt of technocommercially clear order and advance.	
Erection & commissioning - within 1 months of availability of material and readiness of site in all respect to start Erection activities .	
Warrantee - 12 months from the date of comissioning or 18 Months from the date of dispatch, whichever is earlier	
Validity - 30 days from the date hereof.	
** Rate of Taxes and duties mentioned above are prevailing rates. In case of any variation in the rate of Statutory taxes and duties,applicable at the time of dispatch , the same shall be extra to your account.	
for THERMAX LIMITED	
PRASHANT PENDSE	
SALES HEAD	
CELL NO 098233 26488	
24.05.2021	



(PRASHANT PENDSE)

THERMAX LIMITED, ENVIRONMENT HOUSE, PLOT NO. 90-92, BG BLOCK, MIDC BHOSARI, PUNE 411026, INDIA
TEL NO: 020-67156000, 67156222 FAX NO: 020-67156662

Water & Waste Solutions



Quotation / Proforma Invoice		
To, The Additional Chief Engineer (M)		
Health Dept, Govt of sikkim		
Gangtok, East Sikkim		
Description	Unit Price in Rs.	Price for 3 Units
Incinerator having 15-20 Kgs/hr capacity complying to the emission norms specified in BMW Rules 2016 for district hospital as per our Standard technical Offer, specifications and scope of supply	78,50,000.00	2,35,50,000.00
Accessories for the Incinerator	10,50,000.00	31,50,000.00
Self supported Mild steel rubber lined chimney of 200 mm top dia and 30 Mtr height alongwith Interconnecting ducting between ID fan and Chimney	17,05,000.00	51,15,000.00
Continuous Emission monitoring system (CEMS) for measuring parameters specified in BMW Rules 2016	33,00,000.00	99,00,000.00
Accessories for the CEMS	9,90,000.00	29,70,000.00
Erection and Commissioning	16,50,000.00	49,50,000.00
Sub Total	1,65,45,000.00	4,96,35,000.00
Packing @2%	3,30,900.00	9,92,700.00
Sub total	1,68,75,900.00	5,06,27,700.00
Freight / Transportation for Incinerator and Chimney	12,67,200.00	38,01,600.00
Transit Insurance	54,429.30	1,63,287.90
Total Price	1,81,97,529.30	5,45,92,587.90
GST@18%	32,75,555.27	98,26,665.82
GRAND TOTAL	2,14,73,084.57	6,44,19,253.72
PRICE FOR 3 UNITS - RS. SIX CRORE FORTY FOUR LACS NINETEEN THOUSAND TWO HUNDRED FIFTY THREE ONLY		
Payments terms		
Supply :		
30% advance alongwith order		
10% against drawing submission.		
60% alongwith 100% taxes and duties against proforma Invoice prior to dispatch on Pro rata basis.		
Erection and commissioning :		
50% advance against site mobilization		
50% within a week of completion of work against Running bills		
Delivery		
Dispatch - Within 6 months of the date of receipt of technocommercially clear order and advance.		
Erection & commissioning - within 1 months of availability of material and readiness of site in all respect to start Erection activities.		
Warranty - 12 months from the date of commissioning or 18 Months from the date of dispatch, whichever is earlier		
Validity - 30 days from the date hereof.		
** Rate of Taxes and duties mentioned above are prevailing rates. In case of any variation in the rate of Statutory taxes and duties, applicable at the time of dispatch, the same shall be extra to your account.		
for THERMAX LIMITED		
PRASHANT PENDSE		
SALES HEAD		
CELL NO 098233 26488		
24.05.2021		

BIOTRONICS MEDICAL

"MSME, ISO 9001:2015, ISO 13485:2016, GMP, CE & FDA Certified Company"

+++++

BM/21-22/IES 02(Sikkim Govt.)

Date- 20.05.2021

To,
The Additional Chief Engineer,
Health & Family Welfare Department,
Gangtok,
Sikkim,

Sub: Quotation for Bio-Hazard Autoclave

Dear Sir,

Here we are sending you a quotation for our autoclave for your ready reference :

Sl No.	Description	Make /Brand	Each price (Rs)	Qty.	Total Price(Rs)
1	Horizontal Autoclave (Rectangular) HSN CODE:8419	BM	935000.00	01	935000.00

Terms & Condition:-

1. Validity: 30 days.
2. Tax: IGST 18% extra, Packing Charge & Delivery Charge included FOR Destination.
3. Delivery: within 8 weeks from the date of your receive your technically & Commercially clear order.
4. Payment: 100% in advance along the order against our proforma Invoice.
5. Installation: This charge will be extra at the site, if needed.
6. Warranty: 12 months from the date of supply against any manufacturing defects.
Warranty does not cover consumables and accessories like patient Cable, pipe Paddle, rubber bulb, and disposable accessories, if any Etc.

The Purchase Order & Payments of Hospital Equipments are to be made in favour of Biotronics Medical.

For Biotronics Medical

Authorised Signatory

+++++

"SHILPI"74 S.N.CHATTERJEE ROAD Kolkata: 700 034
Cell 91-9674260791/9830056239, Email: biotronicscalcutta3@gmail.com

ALIVIO HEALTHCARE PVT. LTD.



20-05-2021

Addl. Chief Engineer
Department of HC, HS and Family Welfare
Government of Sikkim
Gangtok
Sikkim

Ref: Your Enquiry for HFNO/HFNC Machine

Sub: OFFER FOR SUPPLY OF HFNO/HFNC SYSTEMS TO GOVT. OF SIKKIM

Dear Sir,

We hereby offer our best rate for HF-60L ESSENTIAL HFNO/HFNC System manufactured by ELMASLAR IMALAT TIBBI CIHAZ A.S., ANKARA, TURKEY and marketed by AIRBLEND MEDICAL, IMPLURA Medical GmbH Glockenring 3, 50170 Kerpen, Deutschland.

AIRBLEND HF-60L ESSENTIAL OFFERS:

- Oxygen and air
- Built in blower reaches a flow rate of up to 60 liters per minute
- Humidifier
- Pre-heating of oxygen/air blend to 37°C
- Simple to operate
- Designed for continuous operation

Features:

- Suitable for treatment of Hypoxemic patient with respiratory distress
- Compliant for use on patients in ICU, wards, emergency department.
- It is single system for treating pediatric and adult patients
- Inbuilt flow generator capable of delivering wide range of flow: 2-60 liters/min.
- Inbuilt Air/O₂ blending, facility to deliver wide range of oxygen concentration (Fio₂)
- It has inbuilt Air source without need for external compressor
- Integrated heated humidifier with reusable water tank
- Complaint with international safety standards and regulations.

OUR OFFER:

Our best offered rate for AIRBLEND HF-60L ESSENTIAL is Rs. 245000.00 (Rupees Two Lacs Forty Five Thousand only) excluding GST.

GST@12% to be charged extra.

Terms & Conditions:

1. The prices will remain valid for 30 days.
2. Delivery period – 30 days.
3. Shipment: FOB Destination
4. The Equipment offered by us is covered under Warranty for a period of 12 months.



Regd. Office : 37B/1/2, N.S.C. Bose Road, Naktals, Kolkata - 700047 • Branch Office : 11/ Southend Garden, Kolkata - 700064
Phone : (033) 24818021, 9836335035, 9836025511, 9836407190 • Fax : (033) 24818021 • E-mail : info.aliviohealthcare@gmail.com
www.aliviohealthcare.com • CIN No. : U51909WB2012PTC182093
GSTIN : 12AAKCA6790C12M

ALIVIO HEALTHCARE PVT. LTD.



We trust that the above offer would have your approval and look forward to your valued orders which will receive our best attention.

Thanking you







Sincerely,

For, Alivio Healthcare Pvt. Ltd.

A handwritten signature in blue ink, appearing to read 'Suresh', is written over a horizontal line.

Authorised Signatory



-  Blends oxygen and air
-  Built in blower reaches a flow rate of up to 60 liters per minute
-  Humidifier
-  Pre-heating of oxygen/air blend to 37°C
-  Simple to operate
-  Designed for continuous operation

SPECIFICATION

Order codes	- HF60L-E-110VAC - HF60L-E-230VAC
Power	40 W-90 W
Flow	2-60 l/min
Heater	5 level heating control
Humidifier	5 level humidity control
Oxygen and Flow Sensor	N/A
Liquid tank	650 ml
Weight	4.5 kg
Heater	Max. 38°C
Operating temperature range	18°C ~ 35°C
Operation type	Continuous

ACCESSORIES COMING WITH THE PRODUCT:

Reusable:

- Liquid tank
- Oxygen input adapter
- Heater cable
- Power cable (Schuko plug)

Consumable:

- Medical bacterial filter
- Hose kit

Accessories (consumables)



NC001, NC004, NC015
Patient Interface
(Nasal Cannula)
Large, Medium, Small



HPA01
Bacterial Filter



HPH01
Hose set
Breathing & Short tubes



PS005
Pole with water feeding bottle
and accessories



IMPLURA Medical GmbH
Glockenring 3
50170 Kerpen, Deutschland

info@airblendmedical.com

airblendmedical.com

G-20011/26/2020-IFD and BDG Sec
Government of India
Ministry of Development of North Eastern Region

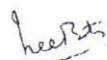
Vigyan Bhawan Annexe,
Maulana Azad Road, New Delhi.
Dated the 07th July, 2021

OFFICE MEMORANDUM

Subject: Comments of IFD on various proposals under NESIDS for sanction.

The undersigned is directed to refer to Programme Division's various mails dated 28.06.2021 and 05.07.2021 received from NESIDS Division forwarding OM No. Coord-14/8/2021-O/o US (NLCPR) dated 28.06.2021 for furnishing comments of IFD, MDoNER. The projects are as under:-

- i. Renovation/Upgradation of NCIU/PICU and HDU at Zoram Medical College, Falkawn, Mizoram for combating Covid-19" for Rs. 2.77 crore.
 - ii. Purchase of RT-PCR reagents & RNA extraction kits to last for approximately six months for Zoram Medical College, Falkawn, Mizoram in combating Covid-19.
 - iii. Purchase of 2(two) Truenat Quattro machines in Mizoram to combat pandemic Covid-19 (for Lawngtlai and Serchhip districts)
 - iv. Procurement of equipments for strengthening of Bio-medical waste Management system & high Flow Oxygen System, Sikkim
 - v. Medical Infrastructure Strengthening for COVID component by arrangement of Medical Gas (Oxygen-12) Pipeline with manifold System, Logistics (Test Kits) and X-ray machine with CR system, Tripura
 - vi. Medical Infrastructure Strengthening for Non-COVID component by provision of Ultra Sonography Machine, Cardiac Care Units, Surgery Units, Dental Chair, Blood Transfusion Mechanism, Setting up advanced diagnostic laboratory, rabies vaccine & Up-gradation of 40 Health sub-centre, Tripura
 - vii. Procurement of Ventilators (Newborn to Pediatric) and Oxygen Concentrators (10 LPM) for combating COVID-19 disease in Pediatric age group, Assam.
2. In this connection, the comments of IFD are attached herewith. Further, Programme Division is advised to ensure that all the projects considered in IMC/ NESIDS Committee, may fall in the ambit of interim relaxation accorded by M/o Finance vide DoE's OM dated 03.06.2021.
3. This issues with the approval of AS &FA.


(Neetu Banati)
Section Officer

To,
Shri N.K.Saha,
Under Secretary
MDoNER

Proposal-IV: "Procurement of equipments for strengthening of Bio-medical waste Management system & high Flow Oxygen System".

The main objective of the proposal is to depict biomedical waste substances generated, their origin and the method to deal with them effectively by procuring machines viz. Incinerator, Autoclave machines, Shredder, High Flow Nasal Oxygen System. Total cost of the project is estimated at Rs.5.33 crore. The duration of the project is 3 months.

2. The observations/comments of IFD on above project are as under:
 - i. As per NESIDS guidelines, the funds may be released in two installments of 40% and 60% and the cost of the projects may not be less than Rs.20.00 crore. The project for procurement of health infrastructure item/equipment is for different locations. It may be ensured by the Programme Division that the instant proposal comes under the ambit of NESIDS guidelines and also as per the relaxation accorded by MoF vide DoE's OM dated 03rd June, 2021.
 - ii. Being the health infrastructure project, the comments of Ministry of Health and Family Welfare may be obtained.
 - iii. The proposal is for procurement of medical item/equipment, being the project under Central Sector Scheme, the procurement of medical item/equipment may preferably be done through GeM portal. In case non-availability of the item/equipment, State Government may be advised to procure items/equipments as per laid policy of the State Government.
 - iv. All other mandatory pre-requisite certificates such as Non-duplicacy, Abstract cost estimates certificate etc., whichever are applicable, may be obtained.
 - v. Abstract cost has been provided with the proposal. It is suggested that only CGST components may be allowed.
 - vi. The provision for maintenance of capital assets created under NESIDS, may be incorporated.
 - vii. The normative allocation of the State under the scheme may also be taken into account.



GOVERNMENT OF SIKKIM
HEALTH & FAMILY WELFARE DEPARTMENT
GANGTOK-737101


DIVISION: MECHANICAL


YEAR :2021-22

NAME OF WORK:ESTIMATE FOR PROCUREMENT OF EQUIPMENTS FOR STRENGTHENING OF BIOIMEDICAL WASTE MANAGEMENT (BMW) SYSTEM & HIGH FLOW NASAL OXYGEN(HFNO) SYSTEM .

Sl no	Particulars	Qty		Rate(Rs)	Amount(Rs)
1	Incinerator having 50 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new STNM hospital complete with erection and commissioning	1	no	19508109.00	19508109.00
2	Incinerator having 15-20kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for District hospital complete with erection and commissioning	1	no	18197529.00	18197529.00
3	HorizontalAuto clave(Rectangular) 450 ltrs for Biomedical BMW management	5	nos	935000.00	4675000.00
4	Shredder 15-20 kg	1	no	500000.00	500000.00
5	High flow Nasal Oxygen(HFNO) Machine				
	i)Adult	5	nos	245000.00	1225000.00
	ii)Paediatric	5	nos	245000.00	1225000.00
				TOTAL	45330638.00
	GST @12 % on sl no 5 i.e	Rs.		2450000.00	294000.00
	GST @18 % on sl no 1,2,3,4 i.e	Rs.		42880638.00	7718514.84
				TOTAL	53343152.84
				SAY	53343153.00

(Rupees Five Crore Thirtyfour lakh forty three thousand one hundred fifty three)only


 Divisional Engineer(Mech)
 Health & Family Welfare Department
 Govt of Sikkim
 Divisional Engineer (Mech)
 Health & Family Welfare Deptt.
 Government of Sikkim


 Additional Chief Engineer(Mech)
 Health & Family Welfare Department
 Govt of Sikkim
 Addl. Chief Engineer (Mech.)
 Health & Family Welf. Deptt.
 Govt of Sikkim


 DIRECTOR GENERAL-CUM-SECRETARY
 Health & Family Welfare Department
 Government of Sikkim

6/3/2021

Gmail - Proposal of the State of Sikkim for procurement of equipment for strengthening of Bio-Medical Waste Management (BMW) Sy...

1023

6/3/2021 11:52:16

Attachment:Annexure B.pdf



nepip pip <nepip12@gmail.com>

Proposal of the State of Sikkim for procurement of equipment for strengthening of Bio-Medical Waste Management (BMW) System & High Flow Nasal Oxygen (HFNO) System with funding under NESIDS - comments reg.

1 message

nepip pip <nepip12@gmail.com>

Wed, Jun 2, 2021 at 4:51 PM

To: nitai.kumar@gov.in

Cc: robert.elangbam@nic.in, Dr Himanshu Bhushan <drhbhushan@gmail.com>, VARINDER KAUR BHALLA US <vk.bhalla@nic.in>, sk.singh13@nic.in, sonortheast@yahoo.com, ashish.ksharma19@gov.in

Sir,

I am directed to send herewith scanned copy of OM F.No.Z-14011/9/2021-NHM-III dated 2nd June, 2021 on the above subject.

With regards,
NHM-III Division
M/o Health & Family Welfare
Ph : 011-23062869



OM dated 2nd June, 2021.pdf

901K

F. No. Z- 14011/9/2021-NHM-III
 Government of India
 Ministry of Health & Family Welfare
 Department of Health & Family Welfare
 (NHM-III Division)

Nirman Bhawan, New Delhi
 Dated 2nd June, 2021

OFFICE MEMORANDUM

Subject: Proposal of the State of Sikkim for procurement of equipment for strengthening of Bio-Medical Waste Management (BMW) System & High Flow Nasal Oxygen (HFNO) System with funding under NESIDS – comments reg.

The undersigned is directed to refer to M/o DoNER's email dated 27.05.2021 forwarding therewith the Government of Sikkim's letter dated 27.05.2021 regarding **Procurement of Equipment for Strengthening of Bio-Medical Waste Management (BMW) System & High Flow Nasal Oxygen (HFNO) System** with estimated cost of Rs.5.33 Crore with funding under North East Special Infrastructure Development Scheme (NESIDS) of M/o DoNER.

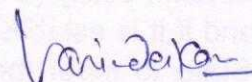
2. The project proposal has been examined and observed that the proposal is silent over the functionality status of Common Waste Treatment Facility (CWTF). As per BMW management rule, the States are supposed to establish Common Waste Treatment Facility (CWTF). So, it is not clear whether it is established in the State or not and if it is established, the hospitals should utilize the same. However, to enable the State to meet the challenge of COVID-19 pandemic, the Ministry of Health & Family Welfare **recommends** the proposal as below :

Sl. No.	Particulars	Proposed by the State (Unit price)	Recommendations / comments
1	Incinerator having 50 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new STNM Hospital complete with erection and commissioning (1 No.)	Rs.1.950 Crore	There is no clarity whether 2 incinerators of 50 Kg/hr are required or one of 50 Kg/hr and second of 15-20 Kg/hr are required. The State Government should clarify this aspect. However, due to emergent situation of COVID-19 pandemic, estimated cost of Rs.1.80 Crore @ Rs.90/- lakh per Incinerator for Capacity of 50 Kg/hr (including the cost of chimney, transportation, installation, GST, etc.) is recommended .
2	Incinerator having 50 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new STNM Hospital	Rs.1.819 Crore	

	complete with erection and commissioning (1 No.)		
3	Horizontal Autoclave (Rectangular) 450 ltrs for BMW management (5 Nos.)	Rs. 9.35 lakh	Rs.46.75 lakh @ Rs.9.35 lakh + 18% GST (as proposed) is recommended.
4	Shredder 15-20 kg (1 No.)	Rs.5.00 lakh	Rs.5.00 lakh + 18% GST (as proposed) is recommended.
5	High Flow Nasal Oxygen Machine (HFNO)		
	Adult (5 Nos.)	Rs.2.45 lakh	Rs.12.25 lakh @ Rs.2.45 lakh + 12% GST (as proposed) is recommended.
	Paediatric (5 Nos.)	Rs.2.45 lakh	Rs.12.25 lakh @ Rs.2.45 lakh + 12% GST (as proposed) is recommended.

Note: The State Government should ensure that the procurement of the items will be made through transparent procurement procedure and also ensure availability of human resources required for the items to be procured. The State must also ensure non-duplication of the resources for the same activities.

3. This issues with the approval of Additional Secretary & Mission Director (NHM).



(Varinder Kaur Bhalla)
Under Secretary (NHM-III)
Ph: 011 23061141

To

Shri N. K. Saha,
Under Secretary,
M/o Development of North Eastern Region,
East Block-10, Level-IV,
Sector-1, R. K. Puram,
New Delhi-110022
{Email: nitai.kumar@gov.in}



**GOVERNMENT OF SIKKIM
PLANNING AND DEVELOPMENT DEPARTMENT
GANGTOK**

Ref.No. 276/P&DD

Dated:02.07.2021

To,

**Shri N K Saha
Under Secretary,
Ministry of DoNER,
Government of India,
R K Puram Sector 1,
Block 10,
New Delhi 110 022.**

**Subject : "Procurement of Equipments for strengthening of BioMedical
Waste Management System and High Flow Nasal Oxygen
(HFNO) System".**

Sir,

Reference to OM F No. Z – 14011/9/2021-NHM-III dated 02.06.2021 regarding the subject proposal, kindly find attached the clarification/views against SI No.1 of the comments of MoH&FW.

Yours sincerely,

**(Joint Dir/ Planning Officer)
P & D Department**

Encl. a.a.



HEALTH AND FAMILY WELFARE DEPARTMENT
GOVERNMENT OF SIKKIM
GANGTOK

No. 118 /H&FW

Dated: 02/07/2021

Sub: **Proposal of State of Sikkim for procurement of equipment for strengthening of Bio-Medical Waste Management (BMW) System & High Flow Nasal Oxygen (HFNO) system with funding under NESIDS---comments reg.**

Sir,

With Reference to the letter no F.No.Z-14011/9/2021-NHM-III dated 02/06/2021 received from Ministry of Health & Family welfare, Government of India matter regarding subject cited above, following is submitted:

1. *Clarification /views against Sl. No.1 of the comments of MoH.&.FW (with reference to DPR of the Sikkim Health Project):* Two Incinerators for the following health Facilities have been proposed in Detail Project Report :
 - i) One Incinerator with 50 KG/hr capacity For 1000 bedded New STNM Hospital, Gangtok , East Sikkim at a cost of Rs 1,95,08,109.00(One Crore Ninety five Lakh eight thousand one hundred nine) only Plus Taxes.
 - ii) Another Incinerator with 15-20 KG/hr capacity For 100 bedded Gyalzing District Hospital, West Sikkim at a cost of Rs 1,81,57,929.00(One Crore eighty one lakh fifty seven thousand nine hundred twenty nine) only Plus Taxes.
- 2 *Clarification on Para (2) of the letter dt.02.06.2021 (Common Waste Treatment Facility:* It is to submit that Sikkim state has not setup Common Waste Treatment Facility (CWTF) till date.

Yours faithfully,

(Dr. Pempa T. Bhutia)
DG-cum-Secretary

2/7/2021

F. No. Z- 14011/9/2021-NHM-III
Government of India
Ministry of Health & Family Welfare
Department of Health & Family Welfare
(NHM-III Division)

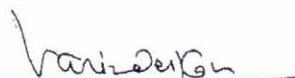
Nirman Bhawan, New Delhi
Dated 16th July, 2021

OFFICE MEMORANDUM

Subject: Proposal for procurement of equipment for Strengthening of Bio Medical Waste Management (BMW) System & High Flow Nasal Oxygen System (HFNO) System with funding under NESIDS – (for sanction).

The undersigned is directed to refer to M/o DoNER's email dated 28.06.2021 forwarding therewith (i) the Government of Sikkim's letter dated 09.06.2021 along with DPR for Procurement of Equipment for Strengthening of Bio Medical Waste Management (BMW) System & High Flow Nasal Oxygen System (HFNO) System with estimated cost of Rs.5.33 Crore to be funded under NESIDS and (ii) Minutes of 4th State Level Empowered Committee (SLEC)'s meeting held on 08.06.2021 under the Chairmanship of the Chief Secretary, Government of Sikkim.

2. The proposal has been examined by the Ministry of Health & Family Welfare and comments / recommendations are given at Annexure.
3. This issues with the approval of Addl.Secretary & Mission Director (NHM).


(Varinder Kaur Bhalla)
Under Secretary (NHM-III)
Ph: 011 23061141

To

Shri N. K. Saha,
Under Secretary,
M/o Development of North Eastern Region,
East Block-10, Level-IV,
Sector-1, R. K. Puram,
New Delhi-110022.
{Email: nitai.kumar@gov.in}

Annexure

Sl.	Particulars	Proposed by the State (Unit price in Rs.)	Remarks
1	Incinerator having 50 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for new 1000 bedded STNM Hospital (complete with erection and commissioning) (1 No.)	Rs.1.950 Cr.	Recommended with estimated cost of Rs.90.00 Lakh for capacity of 50 Kg/hr (including chimney, transportation, installation, GST, etc.) or market discovered price, whichever less.
2	Incinerator having 15-20 kg/hr capacity complying to the emission norms specified in BMW Rules 2016 for 100 bedded Gyalzing District Hospital (complete with erection and commissioning) (1 No.)	Rs.1.819 Cr.	Recommended with estimated cost of Rs.80.00 Lakh for capacity of 15-20 Kg/hr (including chimney, transportation, installation, GST, etc.) or market discovered price, whichever less.
3	Horizontal Autoclave (Rectangular) 450 litres for BMW management (5 Nos.)	Rs.9.35 lakh	Recommended with estimated cost of Rs.46.75 lakh (i.e. Rs.9.35 lakh x 5) + 18% GST (as proposed).
4	Shredder 15-20 kg (1 No.)	Rs.5.00 lakh	Recommended with estimated cost of Rs.5.00 lakh + 18% GST (as proposed).
5	High Flow Nasal Oxygen (HFNO) Machine		
	Adult (5 Nos.)	Rs.2.45 lakh	Recommended with estimated cost of Rs.12.25 lakh (i.e. Rs.2.45 lakh x 5) + 12% GST (as proposed).
	Paediatric (5 Nos.)	Rs.2.45 lakh	Recommended with estimated cost of Rs.12.25 lakh (i.e. Rs.2.45 lakh x 5) + 12% GST (as proposed).

Note: The State Government shall ensure the followings:

- (i) All items to be procured through transparent procurement procedure.
- (ii) Availability of human resources required for the items to be procured
- (iii) Non-duplicacy of the resources for the same activities.

(iv) Generally, the proposal for hospital-wise incinerator is not recommended since it is not a permanent solution. However, the proposal for procurement of two incinerators as proposed is recommended to tackle medical waste in view of COVID-19 pandemic. *The State Government is advised to plan for Common Bio-Medical Waste Treatment Facility (CBWTF) in compliance with standards notified under Bio-Medical Waste Management (BMWM) Rules, 2016 on priority.*



HEALTH AND FAMILY WELFARE DEPARTMENT
GOVERNMENT OF SIKKIM
GANGTOK

No. 119 H&FW

Dated: 8.07.2021

To,

Neetu Bantani,
Section Officer,
Vigyan Bhawan Annexe,
Maulana Azad Road, New Delhi

Sub: Non-Duplicacy Certificate.

Dear Madam,

With reference to the Office Memorandum dated 07th July, 2021, Subject : Comments of IFD on various proposals under NESIDS for sanction, Proposal -IV "Procurement of equipments for strengthening of Bio-medical waste Management system & high Flow Oxygen System, Sikkim", it is hereby certified that the mentioned procurement is not being taken up from any other funding.

Thanking You,

Addl. Chief Engineer (Mech.)
Health & F.W. Department

(Dr. Pempa Tshering Bhutia) MS, Ortho,
Director General cum Secretary,
Health & F.W. Department

09/07/2021

Cum-Secretary
H & W Department
Government of Sikkim

F. No. M-13013/43/2020-S-NE
 Government of India
 NITI Aayog
 (NE States Division)

NITI Bhawan, Sansad Marg
 New Delhi-110001
 Date: 14.06.2021

OFFICE MEMORANDUM

Subject: Project Proposals submitted by Govt. of Manipur, Mizoram, Assam, Tripura, Meghalaya and Sikkim under NESIDS.

Please refer to M/o DoNER's OM dated 11.05.2021, 13.05.2021 and email dated 28.05.2021 forwarding Project Proposals submitted by Govt. of Manipur, Mizoram, Assam, Tripura, Meghalaya and Sikkim under NESIDS for strengthening of Health Infrastructure and COVID-19 facilities in these states. The proposals have been examined in NITI Aayog and the comments are as under:

1. Manipur:

- i. The project proposals are supported if the procurement is in line with MoHW and IFD rules.
- ii. In addition to specialized secondary care, robust primary is essential to improving maternal & child health outcomes in a cost effective manner. There is a large shortfall of primary care facilities, especially SCs. There should be a concurrent focus on strengthening the primary healthcare network.

2. Mizoram: The project proposals are supported if the procurement is in line with MoHW and IFD rules.

3. Sikkim: Project proposals are supported if the procurement is in line with MoHW and IFD rules.

4. Tripura:

- i. The project proposals are supported if the procurement is in line with MoHW and IFD rules.
- ii. The Rural Health Statistics 2019-20 indicate no shortfall of sub-centers in rural or tribal areas. However, they indicate a shortfall in urban PHCs, tribal PHCs, and rural CHCs. Kindly clarify the need for further SCs given the RHS 2019-20 show no shortfall.
- iii. Further, the proposed SCs should be built as per the HWC requirements since all SCs are to be converted to HWCs.

5. Assam:

- i. The project proposals are supported if the procurement is in line with MoHW and IFD rules.
- ii. The rationale for the quantity demanded based on need and existing gap may kindly be clarified.

Contd...2/-

-2-

6. Meghalaya: NITI Aayog supports the project proposal.



(T.Kabilan)
Director (NE States)

To,

Shri N.K.Saha
Under Secretary
M/o DoNER
East Block-10, Level 4
R.K.Puram
New Delhi-110066

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

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Janpath Bhawan,"B" Wing, 6th Floor, Janpath,
New Delhi. Dated: 30.06. 2021


OFFICE MEMORANDUM

Subject: Projects submitted by State Govt. of Mizoram,Sikkim and Tripura.

Please refer to your Office Memorandum No.Coord-14/8/2021-O/o US (NLCPR) dated 28.06.2021 vide which SLEC Minutes of Meeting has been sent to this office for comments. The comments of the Technical Wing are as follows:

Sl.No	State	Name of the Project	Comments
1.	Mizoram	Renovation/Upgradation of NICU/PICU and HDU at Zoram Medical College, Falkawn, Mizoram	The SLEC meeting has been attended by Joint Secretary & other officers of Ministry of DoNER. No further comments of the Technical Wing.
2.		Purchase of TR-PCR reagents & RNA extraction kits to last for app. Six months for Zoram Medical College, Falkawn, Mizoram	
3.		Purchase of 2 Truenat Quattro machine in Mizoram	
4.	Sikkim	Procurement of equipments for strengthening of Bio medical Waste Management (BMV) system & High Flow Oxygen (HFNO) System.	Project relates to Procurement of Medical Equipments iThus, no comments of Technical Wing. However, it is proposed that procurement should be done on competitive rates and as per Health Ministry Guidelines.
5	Tripura	Medical Infrastructure Strengthening for Covid components.....	The SLEC meeting has been attended by Joint Secretary & other officers of Ministry of DoNER. No further comments of the Technical Wing.
6		Medical Infrastructure Strengthening for Non Covid components.....	

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