Certificate No. PCBA/CCA/2026/4319675

Date: 26/05/2026

CCA Application ID No: 4319675

Consolidated Consent and Authorization
(CCA)

To,

Fresh Air Waste Management Services Pvt Ltd
Industrial Estate. Dhing Dhing Municipal Board Nagaon Dhing Municipal Board Nagaon

Consolidated Consent and Authorization (CCA) under the provisions of the Water Act (1974), the Air Act (1981); The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Biomedical Waste Management Rules, 2016 with validity till **31/03/2027.**

A) Consent to Operate

'CONSENT TO OPERATE' (CTO),under Section 25 of Water (Prevention & Control of Pollution) Act,1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 as amended and Rules framed thereunder, is granted to:

i.	Name of the Unit	:	Fresh Air Waste Management Services Pvt Ltd
ii.	Name of the Director/Proprietor	:	PARTHA PRATIM PATHAK
iii.	Address of the Unit	:	Industrial Estate. Dhing Dhing Municipal Board Nagaon Dhing Municipal Board Nagaon
iv.	Cost of the unit (in lakh)	:	293.50
v.	Type of the Unit	:	Common Bio Medical Waste Treatment Facility
vi.	Category of the Unit	:	Red Category

vii) Details of Raw Material:

SI No.	Raw Material	Quantity

viii) Details of Products:

SI No.	Products	Capacity

Details of Service:

SI No.	Service	Capacity
1	Double Chamber Incinerator	200 Kg/hr
2	Autoclave	250-500 Kg/hr
3	Plastic Shredder	1x 200 Kg/hr

ix) D.G Sets

SI No.	Details of DG Set
1	1x 125 KVA

x) Raw Water Details

SI No.	Particulars/Parameter	Value/Details
1	Raw water consumption	4.3 KLD

xi) Effluent generation and treatment

SI No.	Particulars/Parameter	Value/Details
1	Effluent Generation	3 KLD

xii) Emission sources and APCDs

SI No.	Sources	Stack height	APCD	Other detail
1	Incinerator	30m	Venturi Scrubber, Droplet Separator	Fuel Used- Diesel
2				ETP capacity- 10 KLD

xiii) EPR Registration Details

SI No.	Governing Rules	Applicability (Y/N)	Details
1	PWM	N/A	N/A

xiv) Other clearances/NOC from competent authorities Details

SI No.	Clearance/NOC	Applicability (Y/N)	Details
1	CGWA (Ground Water)	Y	Not Obtained

TERMS AND CONDITIONS:

1. The project authority shall install a Display Board as per the Boards notification no. PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021. (Appendix-A).
2. The project proponent shall develop a greenbelt/plantation area with native trees covering at least 33% of the total plot area.

3. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981, as amended, any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the unit premises for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of the CTO.
4. The unit shall apply for renewal of this CTO before expiry. The Board has decided to renew the CTO for validity of five (5) years after receiving due fees for the entire period.
5. The unit shall comply with the ambient noise level standard, notified by MoEF & CC, GOI vide GSR 7, dated Dec.22, 1998, as mentioned: Day Time (6:00AM - 10:00PM): 75 dB(A) Leq. and Night Time (10:00 PM - 6:00AM): 70 dB(A) Leq.
6. Proper housekeeping shall be maintained. The unit shall not burn any waste inside the factory premises.
7. The CTO may be modified, suspended in whole or in part or withdrawn by the Board during its term for cause including, but not limited to the following as Violation of any Terms and Conditions of this CTO, Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts, if any genuine complaint is received.
8. The unit shall obtain prior 'Consent to Establish' from the Board for any further expansion, alteration, modification, modernization of the project.

SPECIFIC CONDITION

* The unit must furnish the compliance report of CTE conditions within 3 (three) months from the date of receipt of this consent order.

A. Air Aspect:

1. The unit shall comply with the emission standards, notified in the Bio-Medical Waste Management rules, 2016 by the MoEF & CC, Govt. of India vide, GSR 343 (E) dated 28.03.2016 as per part-B of Schedule — II of the said notification.
2.Monitoring Platform and Location of sampling port shall be provided in the Chimney as specified in CPCB guidelines for Emission Regulations, Part-Ill (Appendix-B).
3.The unit shall install Online Continuous Emission Monitoring System (OCEMS) for continuous monitoring of Particulate Matter (PM), NO,, HCI, Total Dioxins and Furans, Hg and its Compounds emission and the real-time emission data shall be transmitted to RT-DAS server of Assam Pollution Control Board and Central Pollution Control Board.
4. The unit shall follow the Standards and Guidelines for control of Noise Pollution from Stationary Diesel Generator Sets notified by MoEF&CC, Govt. of India, vide GSR.7 dtd. Dec. 22, 1998 (Appendix – C)

B. Water Aspect:

1.The Project Proponent must obtain NOC from CGWA within one month from the date of issue of CTO unless falling in exempted category as per MoJS Guidelines dated 24.09.2020 and amendments dated 29.03.2023 thereto.
2.The unit shall comply with the industry specific effluent discharge standards, notified in the Bio-Medical Waste Management rules, 2016 by the MoEF & CC, Govt. of India vide, GSR 343 (E) dated 28.03.2016 as per clause 8 of Schedule — II of the said notification
i) Storm water shall not be allowed to mix with effluent and/or floor washing.
i) Storm water within the battery limits shall be channelized through separate drain/pipe passing

through an Oil and Grease trap.
iii) For discharge of storm water, the unit shall comply with the general discharge standardnotified by the MoEF & CC, Govt. of India vide GSR.422 (E) dated.19.05.1993(Appendix-D)
3. i) The unit shall install a Treated Waste Water Storage Tank (TWST) with sufficient capacity to store the treated water from the ETP/STP.
ii) The tank may be installed either over ground or underground and there should not be any bypass system of ETP and treated water should be routed mandatorily-in'to the TWST from which the Board shall collect samples for verification of compliance and
examine the adequacy of the ETP.)
iii) The unit shall install flow meter at the discharge line from TWST and records'must be .
maintained accordingly. '
6. Rainwater harvesting facility shall be installed and maintained.
C. Solid Waste Aspect:
1.Adequate facility should be created for collection, storage, transportation, treatment & disposal of non-hazardous solid waste generated from the Industry.
2.Adequate system should be adopted on reduction of waste generation and enhancement of re-utilization & recycling of waste materials.
3.Solid waste generated in the unit shall be disposed of as per the provisions of the Solid Waste.

D.Plastic Waste Aspect:

1.The unit must adhere to all the stipulations outlined in their EPR Registration obtained as a PWP vide Regn.No.PR-21-ASS-09-AAVFG4956A-22 dtd.21/09/2022.
2.Recycling of plastic shall conform to Indian Standard: IS 14534:1998 titled as Guidelines for Recycling of Plastics, as amended from time to time.
3.The inert from recycling or reprocessing facilities of plastic waste shall be disposed of in compliance with the Solid Waste Management Rules, 2016 or as amended
4.The unit shall not do any business with unregistered entities.

E.Hazardous Waste Aspect:

1.Authorization under the Hazardous & Other Waste (Management and Trans Boundary Movement) Rules, 2016 shall be obtained from the Pollution Control Board, Assam.
2.The project authorities shall comply with the provisions of the said Rules.
3.Adequate facilities shall be provided for collection and storage of used/spent oil, which shall be sent to registered recyclers for recycling.
4.The unit shall dispose of any other Hazardous Waste generated by the unit as per the provisions of the Rules.
5.The unit shall identify and quantify all streams of Hazardous Waste generation as per Schedule-I and maintain proper record in Form-III of the said Rules.
6.The unit should submit annual return in Form-IV under the said rules on or before 30th June every year.

F.E-waste Aspect:

1.The E-waste generated from the unit shall be disposed of scientifically as per the provisions of the E- Waste Management Rules, 2016.

[Grant of Authorization under the Provision of the Hazardous and Other Waste (Management & Transboundary Movement) Rules,2016]

A. Reference CCA Application ID No. : 4319675

B. Fresh Air Waste Management Services Pvt Ltd hereby granted an authorisation based on the signed inspection report for Generation, storage and transportation of Hazardous or Other wastes or both.

DETAILS OF AUTHORIZATION

SI No.	Category of Hazardous Waste as per the Schedules-I, II & III of these rules	Quantity	Mode of Management/Disposal
1	Schedule I, Sl No. 5.1: Used or spent oil	0.0025 KL/Annum	Generation, Storage and disposal to registered recyclers

C. This authorization shall be in force in force for the period up to **31/03/2027** unless otherwise revoked or withdrawn within this period.

D. The authorization is subject to the following general and specific conditions:

I. GENERALCONDITIONS OF AUTHORISATION:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986,and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. The agencies should ensure that the barrels are decontaminated before collection in the premises of the occupier / generator equipped with adequate effluent treatment plant.
5. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
6. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
7. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”
8. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
10. Annual return shall be filed by June 30th for the period ensuring 31stMarch of the year.

II SPECIFIC CONDITIONS:

1.The unit shall maintain the records of Hazardous & Other Wastes in Form-3 under provision of Rules 6(5), 13(7), 14(6), 16(5) & 20(1).
2.The unit shall provide the Transporter with the relevant information in Form-9 regarding the hazardous nature of the wastes and measures to be taken in case of an emergency.
3.The unit shall submit Annual Returns in Form-IV to State Pollution Control Board by 30th June of every year for the preceding period April to March.
4.The unit shall prepare 6 (six) copies of the manifest in From-10 as per Rules-19(1) for every transit of consignment of hazardous Waste under this authorization.
5.Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, Forests & Climate Change, GOI. New-Delhi & Central Pollution Control Board, Delhi shall be complied.
6.The unit shall submit an Environmental Statement for the financial year ending on 31st March, in Form–V of the Environment (Protection) Rules, 1986 before 30th September every year.
7.Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.
8.The unit shall submit the report on any accident occurs at their facility immediately to thestate Pollution Control Board, in Form-11 of the Hazardous and Other Wastes (Management &Transboundary Movement) Rules, 2016.
9.The transport of the hazardous and other waste shall be in accordance with the provisions of Rule 18 of Hazardous & Other waste (Management &Transboundary Movement) Rules, 2016.

II) Authorization for operating a facility for generation, segregation, storage, treatment or processing or conversion, packaging and disposal of biomedical wastes

1. Reference CCA Application ID No: 4319675
2. . Fresh Air Waste Management Services Pvt Ltd an occupier or operator of the facility, located at Industrial Estate. Dhing Dhing Municipal Board Nagaon Dhing Municipal Board Nagaon, Assam is hereby granted the Authorization under the Bio Medical Waste Management Rules, 2016 for-

Generation	☒	Recycling	☑
Segregation	☒	Disposal	☑
Collection	☑	Destruction	☑
Storage	☑	Use	☒
Packaging	☒	Offering for sale, Transfer	☒
Reception	☒	Treatment or Processing or Conversion	☒
Transportation	☑	Any other form of handling	☑

3. .Fresh Air Waste Management Services Pvt Ltd is hereby authorized for handling of biomedical waste as per the capacity given below:

(i) For CBWTF

Number healthcare facilities covered by CBWTF	220
Installed treatment and disposal capacity	kg/day
Area or distance covered by CBWTF	kg/day

(ii) Quantity of Biomedical waste handled, treated or disposed:

Type of Waste Category	Quantity permitted for Handling
Yellow	2000 Kg/day
Red	2000 Kg/day
White(Translucent)	500 Kg/day
Blue	500 Kg/day

4. This Authorization shall be in force for the period up to 31/03/2027.

5. This Authorization is subject to the conditions stated below and to such other conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Terms & Conditions of Authorization:

1. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended, any Officer empowered by the Board on its behalf shall have without interruption, the right at any reasonable time to enter the unit for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of this Authorization.
2. The unit shall strictly follow the relevant norms and standard as laid down in the Bio Medical Waste Management Rules, 2016 which has been notified by the Ministry of Environment, Forest & Climate
3. The Occupier shall ensure that bio-medical waste is handled without any adverse effect to human health and the environment and in accordance with the Bio Medical Waste Management Rules, 2016.
4. No untreated bio-medical waste shall be mixed with other wastes. The Bio-medical waste shall be segregated into containers or bags at the point of generation in accordance with Schedule I of the Bio Medical Waste Management Rules, 2016 prior to its storage, transportation, treatment and disposal.
5. The containers or bags for packing bio-medical waste shall be labeled as specified in Schedule IV of the Bio Medical Waste Management Rules, 2016.
6. The Occupier shall hand over segregated waste to common bio-medical waste treatment facility (CBWTF) for treatment, processing and final disposal or set up requisite biomedical waste treatment equipment in case service of a CBWTF is not available.
7. The Occupier shall not use chlorinated plastic bags, gloves and blood bags.
8. The occupier shall provide training to all its health care workers and others, involved in handling of bio medical waste.
9. The occupier shall ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities.
10. The HCF shall submit Annual Report in Form-4 on or before 30th June every year.
11. The Authorization shall be produced for inspection at the request of an officer authorized by the prescribed authority.
12. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.
13. The unit shall have a valid 'Consent to Operate' from the Board.
14. The unit shall implement Bar Code system for transportation of Bio Medical Waste.
15. The unit shall develop its own website and display details of Bio Medical Waste management.

SPECIFIC CONDITION

1. The unit should strictly follow the relevant norms and standard as laid down in Bio Medical Waste Management Rules, 2016 which has been notified by the Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India vide GSR.343(E) dtd. 28.03.2016, especially with the conditions mentioned in Appendix-E.
2. The HCF shall submit Annual Report in Form-4 on or before 30th June every year.
3. The Authorization or its renewal shall be produced for inspection at the request of an officer authorized by the prescribed authority.
4. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.
5. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this Authorization.
6. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility if such a situation arises.
7. The unit shall have a valid 'Consent to Operate' from the Board.
8. The unit shall not burn any waste inside the premises.
9. The unit shall implement Bar Code system in BMW Bags for safe and proper disposal.

The unit shall submit compliance report of the mandated conditions by April 15 of every year to Member Secretary, APCB as well as to concerned Regional Office, APCB and the unit must obtain environmental monitoring report within 3(three) months from the date of receipt of this consent order. The Board will have the liberty to withdraw the CTO if adequate pollution control and safety measures are not taken.



(Mukunda Madhab Bora)
Chief Env. Engineer
Assam Pollution Control Board

Appendix-A

Pollution Control Board, Assam
Bamunimaidam, Guwahati-21

NOTIFICATION

No. PCBA/LGL-95/2021/Notification/01 Dated Guwahati, the 11th Nov, 2021

In exercise of the powers conferred under Section-5 of the Environment (Protection) Act, 1986 as amended till date and keeping in view the need of public interest towards dissemination of vital information regarding Consent/Authorization of this Board, all industries are hereby directed to install a Display Board of minimum size 5'x4', near the main entrance gate.

The format of the display board is given below:

Name and Address of the Unit : M/s.

Description of Consent/Authorization	Details
Consent to Establish (CTE)	No.: Date of Issue:
Consent to Operate (CTO)	No.: Date of validity:
Authorization under Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 (if applicable)	No.: Date of Issue: Date of validity:

Member Secretary

Memo No. PCBA/LGL-95/2021/Notification/01-A/993 Dated Guwahati, the 11th Nov, 2021

Copy to:

1. The Commissioner & Secretary to the Govt. of Assam, Department of Environment & Forest, Dispur for kind information.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. The All Regional Heads, PCBA for information & necessary action.
4. M/S APS Advertising Pvt. Ltd, Guwahati-1. They are requested to publish the "NOTICE" in "the Assam Tribune" and "Dainandin Barta" on **12.11.2021**.
5. Notice Board, Head Office / Website (www.pcbassam.org), PCBA.

Member Secretary

Appendix-

Location of sampling port as per CPCB's emission regulation guideline part-III

2.5.0 Location of Sampling Port

To ensure laminar flow the sampling ports shall be located at atleast 8 times chimney diameter down stream and 2 times up stream from any flow disturbance. For a rectangular cross section the equivalent diameter (De) shall be calculated from the following equation to determine up stream, down stream distances.

$$De = \frac{2LW}{L+W}$$

Where L = Length in m, W = width in m.

Sometimes it may so happen for existing chimneys that sufficient physical chimney height is not available for desired sampling location in such cases additional traverse points shall be taken as given under 2.4.0.

The sampling port should be preferably provided on the delivery side of duct or chimney and not on the suction side.

APPENDIX –

1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.

(A) Notes standards for DG sets (15-500KVA)

The total sound power level LW of DG set should less than 94 + 10 log 10KVA, dB (A), at the manufacturing stage, whether; KVA is the nominal power rating of a DG set.

This level should fall by 5dB (A) every five years, till 2007, i.e. in 2002 and then in 2007.

(B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram).

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

Guidelines for the manufacturers Users of DG sets 5KVA and above:

- The manufacture should offer to the user a standard acoustic enclosure of 25dB (A). Insertion Loss and also a suitable exhaust muffler with Insertion Loss of 25dB (A).
- The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper sitting and control measures.
- The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- The total sound power level of a DG set, at the user's and, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

2.44.0 NOISE (AMBIENT STANDARDS)

Area Code	Category of Area	Limit in dB (A) Leq.	
		Day time	Night time
A.	Industrial area	75	70
B.	Commercial area	65	55
C.	Residential area	55	45
D.	Silence Zone	50	40

Note – 1 : Day time is reckoned in between 6.00 A.M. and 9.00 P.M.

Note – 2 : Night time is reckoned in between 9.00P.M. and 6.00 A.M.

Note – 3 : Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

Note – 4 : Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply.

Source: EPA, 1986
[GSR 7, dated Dec.22, 1998]

Source: EPA, Notification
[GSR 1063 (E), dated Dec., 26, 1998]

3.22.0 DIESEL GENERATOR SETS : STACK HEIGHT

1. The minimum stack height to be provided with each generator set shall be worked out as per the following formula: - H = h + 0.2 √KVA, where H = Total height of stack in meter.

   h = Height of the building in meters where generator set is installed.

   KVA = Total generator capacity.

   Adequate fire fighting measures have to be provided by the occupier of the premises. Based on the above formula the minimum stack height to be provided with different range of generator sets may be categories as follows:

Range of Generator sets	Minimum Stack Height
50 KVA	Ht. of the building + 1.5 metre.
50 – 100 KVA	Ht. of the building + 2.0 metre.
100 -150 KVA	Ht. of the building + 2.5 metre.
150 - 200 KVA	Ht. of the building + 3.0 metre.
200 - 250 KVA	Ht. of the building + 3.5 metre.
250 - 300 KVA	Ht. of the building + 3.5 metre.

Similarly for higher KVA rating a stack height can be worked out using the above formula.

Source : Evolved by CPCB
[Emission Regulations Part-IV: COINDS/26 1986-87]

4. A .32.0 Part – C

Sl. No. 1 Stack Gas : PM – 150 µg/Nm^3

B. Ambient Air Standards:

Residential Area	Industrial Area	Sensitive Area
SO_2 : 80* µg/m^3	120* : µg/m^3	30* : µg/m^3
NO_2 : 80* µg/m^3	120* : µg/m^3	30* : µg/m^3
CO : 2.0** µg/m^3	5.0** : µg/m^3	1.0** : µg/m^3
***24 hourly; ** 8 hourly**		

5. SCHEMATIC DIAGRAM OF D.G. SET IN AN ACOUSTIC ENCLOSURE No. Process/71/1998-99.

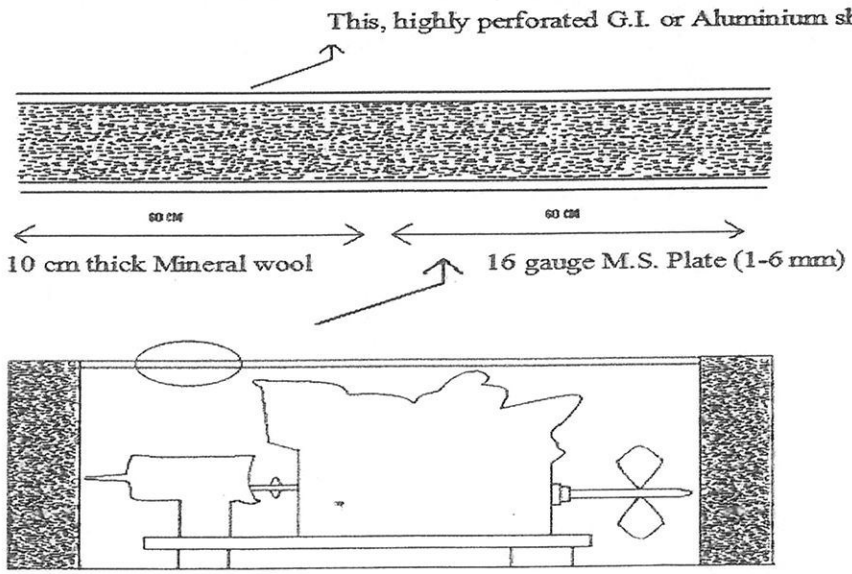


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

Air required for the ventilation and breathing of the engine will have to be provided by means of intake louvers and exhaust louvers (called parallel baffie mufflers) projecting out of the enclosure.

Appendix-

General Standards for discharge of environment Pollutants Part-A: Effluents

S. No.	Parameter	Standards			
		Inland surface water	public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	©	(d)
1	Color and Odor	5 to 25 Agreeable	-	5 to 25 Agreeable	5 to 25 Agreeable
2	Suspended Solids mg/l, Max.	100	600	200	(a) For process waste water- 100
					(b) For Cooling water effluent 10 percent above total suspended matter of influent
3	Particular size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm
					(b) Settleable solids, max 850 microns
4*	---	-	-	---	-
5	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above the receiving water temperature	-	-	Shall not exceed 5°C above the receiving water temperature
7	Oil and grease mg/L Max	10	20	10	20
8	Total residual chlorine mg/1, Max	1.0	-	-	1.0
9	Ammonical nitrogen (as N), mg/1 max.	50	50	-	50
10	Total Kjeldhal nitrogen (as NH_3) mg/l, Max	100	-	-	100
11	Free Ammonia (as NH_3) mg/1, Max	5.0	-	-	5.0
12	Biochemical oxygen demand (5 days at 20°C), mg/1 Max)	30	350	100	100
13	Chemical Oxygen demand, mg/1 Max	250	-	-	250
14	Arsenic (as As) mg/1 Max	0.2	0.2	0.2	0.2

Continued to p/2....

15	Mercury (As Hg), mg/1 max)	0.01	0.01	-	0.01
16	Lead (as Pb) mg/L, Max	0.1	1.0	-	2.0
17	Cadmium (as Cd) mg/1, Max	2.0	1.0	-	2.0
18	Hexavalent chromium, (as Cr) mg/1, Max	0.1	2.0	-	1.0
19	Total chromium (as Cr) mg/l, Max	2.0	2.0	-	2.0
20	Copper (as Cu) g/l, Max	3.0	3.0	-	3.0
21	Zinc (as Zn) mg/l,Max	5.0	15	-	15
22	Selenium (as Se) mg/l, Max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l,Max	3.0	3.0	-	5.0
24*	-	-	-	-	
25*	-	-	-	-	-
26	-	-	-	-	-
27	Cyanide (as CN), mg/l Max	0.2	2.0	0.2	0.2
28*	-	-	-	-	-
29	Fluoride (as F) mg/l Max	2.0	15	-	15
30	Dissolved Phosphates (as p), mg/l Max	5.0	-	-	-
31*	-	-	-	-	-
32	Sulphide (as S) mg/l Max	2.0	-	-	5.0
33	Phenolic Compounds (as C_6H_5OH) mg/l Max	1.0	5.0	-	5.0
34	Radioactive materials:				
	(a)Alpha emitter micro curie/ml	10^{-7}	10^{-7}	10^{-8}	10^{-7}
	(b) Beta emitter micro curie/ml)	10^{-6}	10^{-6}	10^{-7}	10^{-6}
35	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l		3 mg/l
38	Vanadium (asV)	0.2 mg/l	0.2 mg/l		0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	-	-	-	-	-

Appendix-

A. GENERAL STIPULATIIONS

1. The Board has the right to add, delete or modify any of the above conditions in future to protect and safeguard the environment.
2. Be it mentioned that, if any of the above conditions are not fulfilled, this consent shall be treated as cancelled.

B. Duties of the Occupier – It shall be the duty of every occupier to

1. Take all necessary steps to ensure that bio-medical waste is handled without any adverse effect to human health and environment and in accordance with these rules;
2. Make a provision within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in coloured bags or containers in the manner as specified in Schedule-I, to ensure segregated bio-medical waste in coloured bags or containers in the manner as specified in Schedule-I to ensure that there shall be no secondary handling, pilferage of recyclables or inadvertent scattering or spillage by animals and the bio-medical waste from such place or premises shall be directly transported in the manner as prescribed in Schedule-I.
3. Pre-treat the laboratory waste, microbiological waste, blood samples and blood bags through disinfection or sterilization on site in the manner as prescribed by the World Health Organization (WHO) or National AIDs Control Organization (NACO guidelines and then sent to the common bio-medical waste treatment facility for final disposal;
4. Phase out use of chlorinated plastic bags (excluding blood bags)and gloves within two years from the date of notification of these rules;
5. Dispose of solid waste other than bio-medical waste in accordance with the provisions of respective waste management rules made under the relevant laws and amended from time to time
6. Not to give treated bio-medical waste with municipal solid waste;
7. Provide training to all its health care workers and others, involved in handling of bio medical waste at the time of induction and thereafter at least once every year and the details of training programmes conducted, number of personnel trained and number of personnel not undergone any training shall be provided in the Annual Report;
8. Immunize all its health care workers and others, involved in handling of bio-medical waste for protection against diseases including Hepatitis B and Tetanus that are likely to be transmitted by handling of biomedical waste, in the manner as prescribed in the National Immunization Policy or the guidelines of the Ministry of Health and Family Welfare issued from time to time;
9. Establish a Bar- Code System for bags or containers containing bio-medical waste to be sent out of the premises or place for any purpose within one year from the date of the notification of these rules;
10. Ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities;
11. Ensure treatment and disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974);
12. Ensure occupational safety of all its health care workers and others involved in handling of biomedical waste by providing appropriate and adequate personal protective equipment.
13. Conduct health check up at the time of induction and at least once in a year for all its health care workers and others involved in handling of bio- medical waste and maintain the records for the same;
14. Maintain and update on day to day basis the bio-medical waste management register and display the monthly record on its website according to the bio-medical waste generated in terms of category and colour coding as specified in Schedule I;
15. Report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto, (including nil report)in Form I to the prescribed authority and also along with the annual report;
16. Make available the annual report on its web-site and all the health care facilities shall make own website within two years from the date of notification of these rules;
17. Inform the prescribed authority immediately in case the operator of a facility does not collect the biomedical waste within the intended time or as per the agreed time;
18. Establish a system to review and monitor the activities related to bio-medical waste management, either through an existing committee or by forming a new committee and the Committee shall meet once in every six months and the record of the minutes of the meetings of this committee shall be submitted along with the annual report to the prescribed authority and the healthcare establishments having less than thirty beds shall designate qualified person to review and monitor the activities relating to bio-medical waste management within that establishment and submit the annual report;
19. Maintain all record for operation of incineration, hydro or autoclaving etc., for a period of five years;
20. Existing incinerators to achieve the standards for treatment and disposal of bio-medical waste as specified in Schedule II for retention time in secondary chamber and Dioxin and Furans within two years from the date of this notification.

C. Treatment and disposal:

1. Bio-medical waste shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards provided in Schedule-II by the health care facilities and common bio-medical waste treatment facility.
2. Occupier shall hand over segregated waste as per the Schedule-I to common bio-medical waste treatment facility for treatment, processing and final disposal: Provided that the lab and highly infectious biomedical waste generated shall be pre-treated by equipment like autoclave or microwave.
3. No occupier shall establish on-site treatment and disposal facility, if a service of ` common biomedical waste treatment facility is available at a distance of seventy-five kilometre.
4. In cases where service of the common bio-medical waste treatment facility is not available, the Occupiers shall set up requisite biomedical waste treatment equipment like incinerator, autoclave or microwave, shredder prior to commencement of its operation, as per the authorization given by the prescribed authority
5. Any person including an occupier or operator of a common bio medical waste treatment facility, intending to use new technologies for treatment of bio medical waste other than those listed in Schedule I shall request the Central Government for laying down the standards or operating parameters.

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6. On receipt of a request referred to in sub-rule (5), the Central Government may determine the standards and operating parameters for new technology which may be published in Gazette by the Central Government.
7. Every operator of common bio-medical waste treatment facility shall set up requisite biomedical waste treatment equipment like incinerator, autoclave or microwave, shredder and effluent treatment plant as a part of treatment, prior to commencement of its operation.
8. Every occupier shall phase out use of non-chlorinated plastic bags within two years from the date of publication of these rules and after two years from such publication of these rules, the chlorinated plastic bags shall not be used for storing and transporting of bio-medical waste and the occupier or operator of a common bio-medical waste treatment facility shall not dispose of such plastics by incineration and the bags used for storing and transporting biomedical waste shall be in compliance with the Bureau of Indian Standards. Till the Standards are published, the carry bags shall be as per the Plastic Waste Management Rules, 2016.
9. After ensuring treatment by autoclaving or microwaving followed by mutilation or shredding, whichever is applicable, the recyclables from the treated bio-medical wastes such as plastics and glass shall be given to such recyclers having valid authorization or registration from the respective prescribed authority.
10. The Occupier or Operator of a common bio-medical waste treatment facility shall maintain a record of recyclable wastes referred to in sub-rule (9) which are auctioned or sold and the same shall be submitted to the prescribed authority as part of its annual report. The record shall be open for inspection by the prescribed authorities.
11. The handling and disposal of all the mercury waste and lead waste shall be in accordance with the respective rules and regulations.

D. Segregation, packaging, transportation and storage:

1. No untreated bio-medical waste shall be mixed with other wastes.
2. The bio-medical waste shall be segregated into containers or bags at the point of generation in accordance with Schedule I prior to its storage, transportation, treatment and disposal.
3. The containers or bags referred to in sub-rule (2) shall be labelled as specified in Schedule IV.
4. Bar code and global positioning system shall be added by the Occupier and common bio-medical waste treatment facility in one year time.
5. The operator of common bio-medical waste treatment facility shall transport the bio-medical waste from the premises of an occupier to any off-site bio-medical waste treatment facility only in the vehicles having label as provided in part 'A' of the Schedule IV along with necessary information as specified in part 'B' of the Schedule IV.
6. The vehicles used for transportation of bio-medical waste shall comply with the conditions if any stipulated by the State Pollution Control Board or Pollution Control Committee in addition to the requirement contained in the Motor Vehicles Act, 1988 (59 of 1988), if any or the rules made thereunder for transportation of such infectious waste.
7. Untreated human anatomical waste, animal anatomical waste, soiled waste and, biotechnology waste shall not be stored beyond a period of forty –eight hours: Provided that in case for any reason it becomes necessary to store such waste beyond such a period, the occupier shall take appropriate measures to ensure that the waste does not adversely affect human health and the environment and inform the prescribed authority along with the reasons for doing so.
8. Microbiology waste and all other clinical laboratory waste shall be pre-treated by sterilization to Log 6 or disinfection to Log 4, as per the World Health Organization guidelines before packing and sending to the common bio-medical waste treatment facility.
9. All plastic bags shall be as per BIS standards as and when published, till then the prevailing Plastic Waste Management Rules shall be applicable.
10. Chemical treatment using at least 1-2% Sodium Hypochlorite having 30% residual chlorine for twenty minutes or any other equivalent chemical reagent that should demonstrate $Log_{10}4$ reduction efficiency for microorganisms.
11. Mutilation or shredding must be to an extent to prevent unauthorized reuse.
12. There will be no chemical pre-treatment before incineration, except for microbiological, lab and highly infectious waste.
13. Incineration ash (ash from incineration of any bio-medical waste) shall be disposed through hazardous waste treatment, storage and disposal facility, if toxic or hazardous constituents are present beyond the prescribed limits as given in the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 or as revised from time to time.
14. Dead Futes below the viability period (as per the Medical Termination of Pregnancy Act 1971, amended from time to time) can be considered as human anatomical waste. Such waste should behanded over to the operator of common bio-medical waste treatment and disposal facility in yellow bag with a copy of the official Medical Termination of Pregnancy certificate from the Obstetrician or the Medical Superintendent of hospital or healthcare establishment.
15. Cytotoxic drug vials shall not be handed over to unauthorized person under any circumstances. These shall be sent back to the manufactures for necessary disposal at a single point. As a second option, these may be sent for incineration at common bio-medical waste treatment and disposal facility or TSDFs or plasma pyrolysis is at temperature $>1200^0C$.
16. Residual or discarded chemical wastes, used or discarded disinfectants and chemical sludge can be disposed at hazardous waste treatment, storage and disposal facility. In such case, the waste should be sent to hazardous waste treatment, storage and disposal facility through operator of common bio-medical waste treatment and disposal facility only.
17. On-site pre-treatment of laboratory waste, microbiological waste, blood samples, and blood bags should be disinfected or sterilized as per the Guidelines of World Health Organization or National AIDS Control Organization and then given to the common bio-medical waste treatment and disposal facility.
18. Installation of in-house incinerator is not allowed. However in case there is no common biomedical facility nearby, the same may be installed by the occupier after taking authorization from the State Pollution Control Board.
19. Syringes should be either mutilated or needles should be cut and or stored in tamper proof, leak-proof and puncture proof containers for sharps storage. Wherever the occupier is not linked to a disposal facility it shall be the responsibility of the occupier to sterilize and dispose in the manner prescribed.
20. Bio-medical waste generated in households during healthcare activities shall be segregated as perthese rules and handed over in separate bags or containers to municipal waste collectors. Urban Local Bodies shall have tie up with the common bio-medical waste treatment and disposal facility to pick up this waste from the Material Recovery Facility (MRF) or from the house hold directly, for final disposal.

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21. Disposal by deep burial is permitted only in rural or remote areas where there is no access to common biomedical waste treatment facility. This will be carried out with prior approval from the prescribed authority and as per the Standards specified in Schedule-III. The deep burial facility shall be located as per the provisions and guidelines issued by Central Pollution Control Board from time to time.

E. Biomedical wastes categories and their segregation, collection, treatment, processing and disposal options

1. The applicant shall adhere to all procedures in handling the bio-medical wastes during incineration, segregation, packaging, transportation, storage, treatment and disposal for safe management of bio-medical wastes as per Bio-Medical Waste (Management & Handling) Rule, 2016.
2. The incinerator should be installed at appropriate location away from the neighbourhood.
3. The Health Care Facilities shall treat their wastes as per following guidelines: -

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal options
(1)	(2)	(3)	(4)
Yellow	(a) Human Anatomical Waste: Human tissues, organs, body parts and fet us below the viability period (as per the Medical Termination of Pregnancy Act 1971,amended from time to time)	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial
	(b)Animal Anatomical Waste : Experimental animal car cases, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal houses.		
	(c) Soiled Waste: Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components.		Incineration or Plasma Pyrolysis or deep burial* In absence of above facilities, autoclaving or micro-waving/ hydroplaning followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.
	(d) Expired or Discarded Medicines: Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.	Yellow coloured non-chlorinated plastic bags or containers	Expired `cytotoxic drugs and items contaminated with cytotoxic drugs to be returned back to the manufacturer or supplier for incineration at temperature>1200 ^{0}C or to common bio-medical Waste treatment facility or hazardous waste treatment, storage and disposal facility for incineration at >1200^{0}C Or Encapsulation or Plasma Pyrolysis
			at>1200^{0}C.All other discarded medicines shall be either sent back to manufacturer or disposed by incineration.
	(e) Chemical Waste: Chemicals used in production of biological and used or discarded disinfectants.	Yellow coloured Containers or non-chlorinated plastic bags.	Disposed of by incineration or Plasma Pyrolysis or Encapsulation in hazardous waste treatment, storage and disposal facility.
	(f) Chemical Liquid Waste : Liquid waste generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X-ray film developing liquid, discarded Formal in, infected secretions, aspirated body fluids, liquid from laboratories and floor washings, cleaning, house-keeping and disinfecting activities etc.	Separate collection system leading to effluent treatment system.	After resource recovery, the chemical liquid waste shall be pre-treated before mixing with other wastewater. The combined discharge shall conform to the discharge norms given in Schedule-III.
	g) Discarded linen, mattresses, beddings contaminated with blood or body fluid, routine mask, gown.	Non-chlorinated yellow plastic bags or suitable packing material.	Non-chlorinated chemical disinfection followed by incineration or Plazma Pyrolysis or for energy recovery. In absence of above facilities, shredding Or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plazma Pyrolysis.
	(h) Microbiology, Biotechnology and other clinical laboratory waste: Blood bags, Laboratory cultures, stocks or specimens of microorganisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and devices used for cultures.	Autoclave or Microwave or Hydro clave safe plastic bags or containers.	Pre-treat to sterilize with non-chlorinated chemicals on-site as per National AIDS Control Organization or World Health Organization guidelines thereafter for Incineration.

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Red	Contaminated Waste(Recyclable) (a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes handsets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vacutainers with their needles cut) and gloves.	Red coloured no chlorinatedplastic bags or containers.	Autoclaving or micro-Waving/hydroplaning followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent to registered or authorized recyclers or for energy recovery or plastics to diesel or fuel oil or for road making, whichever is possible. Plastic waste should not be sent to landfill sites.
White (Translucent)	Waste sharps including Metals: Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps	Puncture proof, Leak proof, tamper proof containers.	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete; combination of shredding cum autoclaving; and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Boards or Pollution Control Committees) or sanitary landfill or designated concrete waste sharp pit.
Blue	(a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes.	Puncture proof and Leak proof boxes or containers with blue coloured marking.	Disinfection (by soaking the washed glass waste after cleaning with detergent and Sodium Hypochlorite Treatment) or through autoclaving or microwaving or hydro claving and then sent for recycling.
	(b) Metallic Body Implants	Puncture proof and Leak proof boxes or containers with blue coloured marking.	

F. **INCINERATION:**

All incinerators shall meet the following operating and emission standards-

a)Operating Standards:

1. Combustion efficiency (CE) shall be at least 99.00%.
2. The temperature of the primary chamber shall be a minimum of 800 ^{0}C and the secondary chamber shall be minimum of 1050^{0}C + or - 50^{0}C.
3. The secondary chamber gas residence time shall be at least two seconds.

b) Emission Standards:

Sl. No.	Parameter	Standards	
		Limiting concentration in mg per Nm^3 unless stated	Sampling Duration in minutes, unless stated
1.	Particulate matter	50	30 or 1NM^3 of sample volume, whichever is more
2.	Nitrogen Oxides NO and NO_2 expressed as NO_2	400	30 for online sampling or grab sample
3.	HCl	50	30 or 1NM^3 of sample volume, whichever is more
4.	Total Dioxins and Furans	0.1ngTEQ/Nm3(at 11%O2)	8 hours or 5NM^3 of sample volume, whichever is more
5.	Hg and its compounds	0.05	2 hours or 1NM3 of sample volume, whichever is more

c) Minimum stack height shall be 30 meters above the ground and shall be attached with the necessary monitoring facilities as per requirement of monitoring of 'general parameters' as notified under the Environment (Protection) Act, 1986 and in accordance with the Central Pollution Control Board Guidelines of Emission Regulation Part-III

G. **STANDARDS FOR LIQUID WASTE:**

1. The effluent generated or treated from the premises of occupier or operator of a common biomedical waste treatment and disposal facility, before discharge into the sewer should conform to the following limits.

PARAMETERS	PERMISSIBLE LIMITS
P^H	6.5-9.0
Suspended solids	100 mg/l
Oil and grease	10 mg/l
BOD	30 mg/l
COD	250 mg/l
Bio-assay test	90% survival of fish after 96 hours in 100% effluent.

2. Sludge from Effluent Treatment Plant shall be given to common bio-medical waste treatment facility for incineration or to hazardous waste treatment, storage and disposal facility for disposal.