



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

By RPAD

CTE-Amendment

(CTE Amendment No: 72545)

NO. GPCB/HAZ-GEN-729/ID: 79917/811931

Date: 20/05/2024

To,

M/s. Varni Enviro Care Pvt Ltd,

S. No. 283, Village: Surai,

Tal: Chotila, Dist: Surendranagar.

Sub: Amendment in Consent to Establishment (NOC) for expansion of Common secured landfill site.

Ref: 1. Your Application Inward No.305499 dated: 25/01/2024.
2. EC to CTE No.46544 dated06/05/2021.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air (Prevention and Control of Pollution) Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that **Amendment in Consent to Establish (NOC) is granted for expansion of Common secured landfill site** at S. No. 283, Village: Surai, Tal: Chotila, Dist: Surendranagar for the following.

Sr. No.	Product	Existing	Proposed	Total
1.	Common secured landfill site (TSDF)	3,30,750 MT	7,20,090 MT	10,50,840 MT
2.	Hazardous waste Incineration	1500 Kg/Hr (10,850 MTPA)	--	1500 Kg/Hr (10,850 MTPA)

1. SUBJECTED TO FOLLOWING CONDITIONS:-

- 1.1. Unit shall strictly comply with all the conditions mentioned in the Environment Clearance granted by Ministry of Environment & Forest vide bearing no. F.No.21-40/2021-IA-III Date: 29/06/2021 and File No. 21-40/2021-IA-III date: 19/07/2023.
- 1.2. Unit shall comply with all the recommendations, suggestions and Environmental stipulations given by Hon. Supreme Court of India, Ministry of Environment, Forests and Climate Change, New Delhi, Central Pollution Control Board and Gujarat Pollution Control Board from time to time.
- 1.3. Unit shall strictly adhere and comply with the Guidelines/Manuals published by the relevant authorities for Construction and safe operation of the Hazardous Waste TSDF & Incineration systems like (a) Criteria for Landfills (b) Manual for design, construction and quality control of liners and covers of Hazardous Waste Landfills (c) Guideline for proper functioning and upkeep of disposal site (d) Guideline for transportation of Hazardous

Waste (e) Guideline for setting up of operating facility (f) Guideline for Hazardous waste Incinerator etc., along with the instruction and stipulation issued time to time for the safe handling, construction and operating of Hazardous Waste TSDF & Incineration Sites.

- 1.4. In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to GPCB and MOEF&CC, New Delhi for modification in the Clearance conditions or imposition of new one for ensuring environmental protection. The project proponent shall be responsible for implementing the suggested safe guards.
- 1.5. Unit shall install piezometric wells in upstream and downstream of TSDF as per the CPCB guidelines for the monitoring of the ground water quality.
- 1.6. Unit shall install stabilization pit as per CPCB guidelines for TSDF operations.
- 1.7. All necessary measures shall be taken so as there is neither any accumulation of the rainwater occurs at the site nor any contaminated water/run off finds its way outside of the premises.
- 1.8. Unit shall have to follow the Guideline for Transportation, Storage, Handling and Labelling of Hazardous Waste published by CPCB.
- 1.9. Unit shall have to take all the precautions to control fugitive emission and Odour control from the different operations of your site as per the Guideline of CPCB.
- 1.10. The project proponent shall use Hazardous waste tracking system of Xtended Green Node (XGN) for on line real time data updation on Transportation of Hazardous waste by them. The compilation of real time data for preparing online manifest by the generator, Transporter and receptor shall have to be maintained on daily basis & submitted by the generator and receptor of the facility to the concern Regional Office of GPCB and Head Office GPCB.
- 1.11. Unit shall develop green belt all along the periphery of the TSDF as per the CPCB guidelines and Environmental Clearance condition with plant species that are significant and used for the pollution abatement. Drip irrigation system shall be used for the green belt for optimum utilization of the water resources.
- 1.12. Unit shall take adequate measures to control odour nuisance from the industrial activities which may include measures like- use of masking agent with atomizer system (water curtain), closed / automatic material handling system, containment of the odour vulnerable areas etc.
- 1.13. Unit shall provide Wall to Wall carpeting in vehicle movement areas within premises to avoid dusting.
- 1.14. Unit shall submit the data of upstream and downstream of borewell, soil and ambient air monitoring to the Board.
- 1.15. Unit shall comply with CPCB guideline "Implementing liabilities for Environmental Damages due to handling and disposal of Hazardous waste and Penalty".
- 1.16. The funds earmarked for environment protection measures should be maintained in a separate account that is "Escrow Account" and the Escrow amount shall be maintained in Escrow Account as 5% on annual turnover of landfillable waste including cost of transportation, handling, treatment and disposal per year as per OM dt. 04/03/2024 of



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- MoEF&CC. There shall be no diversion of these funds for any other purpose. A year wise expenditure on environmental safeguards shall be reported to GPCB and CPCB.
- 1.17. Construction of the proposed structures should be undertaken meticulously confirming to the existing Central/state/local rules and regulations. All the construction designs/drawings relating to the proposed Construction activities must have approvals of the concerned State Government Department/Institutes/Agencies of National repute.
 - 1.18. To meet any emergency situation, appropriate fire-fighting system should be available. Appropriate arrangements for uninterrupted power and water supply to meet the requirements of the environment protection equipments and continuous water supply for the fire fighting system should be provided.
 - 1.19. Unit shall provide On-site laboratory to verify type of waste received from member units prior to its Collection, Storage & Disposal and shall be in accordance to the Acceptance criteria of Hazardous waste as per CPCB guidelines.
 - 1.20. On-site records including approved design and lay-out of secured landfill, records of reception, Collection, Storage and Disposal of Hazardous Waste shall be maintained including details of waste category and quantity as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016.
 - 1.21. Unit shall follow the online manifest system on XGN for collection, reception, storage of waste from your member units.
 - 1.22. Unit shall maintain the records of Hazardous waste generators, collection and its storage and submit to Gujarat Pollution Control Board from time to time.
 - 1.23. In no case hazardous waste shall be disposed off on land, within or outside the premises, sold out to traders/ dealers or transferred without prior approval of the Board.
 - 1.24. As per "Public Liability Insurance Act 1991" company shall get insurance policy and valid copy of policy shall be submitted to Gujarat pollution Control Board.
 - 1.25. The project proponent shall transport Hazardous waste through authorized dedicated Vehicles with GPS (Global Positioning System) enabled mounted vehicle "AIS 140 compliant" system and in line with Hazardous and Other Waste (M &TM) Rules-2016.
 - 1.26. The owner/operator of the facility shall apply in writing at least 6 months in advance seeking approval for the closure of the facility to the Gujarat Pollution Control Board along with detailed closure plan of individual cell.
 - 1.27. Post storage and disposal monitoring as per guidelines of CPCB shall be continuously carried out and report of the same shall be submitted to Gujarat Pollution Control Board.
 - 1.28. The Board reserves the right to revoke and/or revoke consent and/or make modification in the conditions which it deems fit in accordance with provisions of Water Act – 1974.
 - 1.29. The Environmental audit shall be carried out twice in a year and the environmental statements pertaining to the previous year shall be submitted to this Board by 30th June of every year only through a schedule-I auditor having valid recognition of the Board.
 - 1.30. Unit shall have to strictly adhere and comply with the conditions laid down in these CTE (NOC) issued by this Board and other Environmental Stipulations Issued from time to time.

2. CONDITIONS UNDER WATER ACT 1974

2.1. Total water consumption (158 KLPD) shall not exceed following category wise utilization:

Sr. No	Purpose	Quantity
1.	Domestic	05 KLPD
2.	Gardening	40 KLPD
3.	Industrial	113 KLPD

2.2. The total generation industrial waste water from common facilities operation i.e. leachate from landfill site, laboratory and washing (including tyre washing) shall not exceed 142 KLPD. 51 KLPD generated wastewater from scrubber blow down, laboratory and washing (including tyre washing) shall be sent to in house ETP and remaining 85 KLPD generated wastewater from leachate of TSDF site shall be treated in to in house ETP followed by common spray drying facility. 06 KLPD ash cooling water shall be go with ash to landfill.

2.3. The quantity of the domestic waste water (sewage) shall not exceed 4 KLPD.

2.4. Domestic waste water/Sewage shall be treated into ETP plant alongwith industrial waste water.

3. CONDITIONS UNDER AIR ACT 1981:

3.1 The following shall be used as fuel in the common hazardous waste incinerator and DG set.

Sr. No.	Fuel	Quantity
1	HSD (For D.G Set)	250 Lit/Hr
2	HSD/LDO (For Incinerator)	450 Kg/hr

3.2 The flue gas emission through stack attached to the below shall conform to the following standards:

Sr. No	Stack Attached to	Stack height in Meter	Permissible Limit
1	D.G Set (1000 KVA)	15	PM : 150 mg/Nm ³ SO ₂ : 100 ppm NO _x : 50 ppm

3.3 The process gas emission through stack attached to the hazardous waste incinerator shall conform to the following standards :

Sr No.	Stack attached to	Stack height in meter	APCM	Permissible limit
1.	Incinerator plant	40	Quenching system, spray dryer (forced evaporation system), Cyclone separators in series followed by	Emission standards for hazardous waste as approved by CPCB and published in guideline of common hazardous



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			Bag filter, Ventury & packed Bed Scrubber	waste incinerator given at condition no. 3.4
2.	Waste Stabilization pit area	11	Alkali scrubber	PM : 150 mg/Nm ³ HCL: 20 mg/Nm ³

3.4 The applicant shall operate air pollution control system in order to achieve norms prescribed by CPCB and published in guideline for Common Hazardous Waste incinerator shown below:

Parameter	Emission standard	
Particulates	50 mg/Nm ³	Standard refers to half hourly average value
HCl	50 mg/Nm ³	Standard refers to half hourly average value
SO ₂	200 mg/Nm ³	Standard refers to half hourly average value
CO	100 mg/Nm ³	Standard refers to half hourly average value
	50 mg/Nm ³	Standard refers to daily average value
Total Organic Carbon	20 mg/Nm ³	Standard refers to half hourly average value
HF	4 mg/Nm ³	Standard refers to half hourly average value
NO _x (NO and NO ₂ expressed as NO ₂)	400 mg/Nm ³	Standard refers to half hourly average value
Total dioxins and furans	0.1 ng TEQ/Nm ³	Standard refers to 6-8 hours sampling. Please refer guidelines for 17 concerned congeners for toxic equivalence values to arrive at total toxic equivalence
Cd+ Th+ their compounds	0.05 mg/Nm ³	Standard refers to sampling time anywhere between 30 minutes and 8 hours.
Hg and its compounds	0.05 mg/Nm ³	Standard refers to sampling time anywhere between 30 minutes and 8 hours.
Sb+As+Pb+Cr+Co+ Cu+Mn+Ni+V+ their compounds	0.5 mg/Nm ³	Standard refers to sampling time anywhere between 30 minutes and 8 hours.

3.5 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.

3.6 The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

D.G Sets Conditions

- The D.G. Set shall have acoustic enclosure and shall comply with the standards specified at Sr. No. 95 of Schedule-I of the rule-3 of E.P. Rules-1986 and Noise pollution level as per the Air Act-1981.

D.G. Sets standards:-

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

- a) The minimum height of stack to be provided with each of the generator set shall be $H=h + 0.2 (KVA)^{1/2}$, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.
- b) Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- c) The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever 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 such 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 m from the acoustic enclosure/room, and the averaged.
- d) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- e) All efforts shall be made to bring down the noise level due to the D.G. Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- f) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G. Set manufacturer.
- g) A proper routine and preventive maintenance procedure for the D.G. Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use.

3.7 Ambient air quality within the premises of the industry shall conform to the following standards:

Parameter	Concentration in Ambient Air		Method of Measurement
	Annual	24 hrs. Average	
Particulate matter-10 (PM ₁₀)	60 µg/m ³	100 µg/m ³	Gravimetric, TOEM Beta attenuation
Particulate matter-2.5 (PM _{2.5})	40 µg/m ³	60 µg/m ³	Gravimetric, TOEM Beta attenuation



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Sulphur Dioxide(SO ₂)	50 µg/m ³	80 µg/m ³	Improved West and Gacke Ultraviolet fluorescense
Nitrogen Dioxide (NO ₂)	40 µg/m ³	80 µg/m ³	Modified Jacob &Hoechheiser (Na-Arsenite) Chemiluminescence
Benzene	5 µg/m ³	-----	Gas chromatography based continuous analyzer Adsorption and Desorption followed by GC analysis
Benzo (a) pyrene (BaP)-Particulate Phase only	01 ng/m ³	-----	Solvent extraction followed by HPLC/GC analysis
Arsenic(As)	06 ng/m ³	-----	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
Nickel (Ni)	20 ng/m ³	-----	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
Lead (Pb)	0.50µg/m ³	1.0 µg/m ³	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper ED-XRF using Teflon filter
Ammonia	100 µg/m ³	400 µg/m ³	Chemiluminescence Indophenol blue method
Ozone	100 µg/m ³ 8 hours	180 µg/m ³ 1 hour	UV photometric Chemiluminescence Chemical Method
Carbon Monoxide (CO)	02 mg/m ³ 8 hours	04 mg/m ³ 1 hour	Non dispersive Infra Red (NDIR) spectroscopy

3.8 After Closure of the landfill cells, vents shall be installed & regular Post Closure monitoring of the emission of vents shall be carried out and Analysis reports shall be submitted to GPCB regularly.

3.9 Stack monitoring facilities like port-hole, platform/ladder etc., shall be provided with stack/vents chimney in order to facilitate sampling of gases being emitted in to the atmosphere as per standard MoEF&CC/CPCB guideline.

4. CONDITIONS UNDERHAZARDOUS WASTE MANAGEMENT RULES:

A. General condition:

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 Authorized 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. 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.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization 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;
6. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
7. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
8. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
9. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
10. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
11. An application for the renewal of an authorisation shall be made as laid down under these Rules.
12. 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.
13. Annual return shall be filed by June 30th for the period ensuing 31st March of the year.

B. Specific Conditions:

1. In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
2. The occupier of the facility shall comply Standard operating procedure/ guidelines published by MoEF&CC or CPCB or GPCB from time to time.
3. Unit shall comply provisions of E-Waste Management Rules-2016.
4. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.

5. GENERAL CONDITION:

1. Applicant shall have to comply with all guidelines/ directives issued / being issued by MOEF / CPCB /DOEF.
2. Applicant shall have to comply with Risk Assessment and Disaster management Plan.
3. Applicant shall have to carry out mock drill both on site and off site for all the possible eventualities at a regular interval of time. For any of the disastrous situation escape route



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shall have to be predefined properly marked and shall be brought to the knowledge of all the concerned.

4. Applicant shall have to comply with the Environmental Audit Scheme introduced by Hon'ble High Court and shall submit the Environment Audit Report every year in accordance with directions given in the High Court Order dated 16/09/1999 in Environmental Audit Scheme.
5. In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the Board.
6. The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
Between 6 A.M. and 10 P.M.: 75 dB (A)
Between 10 P.M. and 6 A.M.: 70 dB (A)
7. Unit shall comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
8. Full support shall be extended to the officers of MoEF&CC, CPCB, GPCB and all other relevant authorities by the project proponents during their inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of initiative measures and other environmental protection activities.
9. GPCB reserves the right to stipulate additional condition if found necessary. The company shall implement these conditions in a time bound manner.

For and on Behalf of
Gujarat Pollution Control Board

N. A. Shah
20/5/24

(N. A. Shah)

Unit head, Hazardous waste cell

Issued To:

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Tal: Chotila, Dist: Surendranagar.