



सत्यमेव जयते

File No: 21-40/2021-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **19/07/2023**



To,

VARNI ENVIRO CARE PRIVATE LIMITED
8, Madhavvatika, Above Golden Super Market, Limbudiwadi, Rajkot , RAJKOT, GUJARAT, 360001
ashirwadpm@gmail.com

Subject: Environmental Clearance for the Expansion of Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF & Incineration) at Survey No.283, Village Surai, Tehsil Chotila, District Surendranagar, Gujarat by M/s Varni Enviro Care Pvt. Ltd. – reg.

Sir/Madam,

The Project Proponent (M/s Varni Enviro Care Pvt. Ltd.) for the project/activity cited in the subject above has applied for Environmental Clearance (EC) vide Application/Proposal No. IA/GJ/INFRA2/419461/2023 through PARIVESH Portal on 21.03.2023.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A3201GJ5861608E
(ii) File No.	21-40/2021-IA.III
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	7(d) Common hazardous waste treatment, storage and disposal facilities (TSDFs)
(vi) Sector	INFRA-2
(vii) Name of Project	Proposed expansion of TSDF-Landfill within an integrated common Haz. waste facility
(viii) Name of Company/Organization	VARNI ENVIRO CARE PRIVATE LIMITED
(ix) Location of Project (District, State)	SURENDRANAGAR, GUJARAT
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. After preliminary examination in the Ministry, the proposal was placed for consideration and appraisal by the Expert Appraisal Committee (Infra-2) in its 103rd meeting held on 10.04.2023.

4. The details of the project, as per the documents submitted by the project proponent, and also as informed during the aforesaid meeting of EAC are provided below for reference:

(i) It is an expansion project. The proposed project is located at Survey No.283, Village Surai, Tehsil Chotila, District Surendranagar, Gujarat.

(ii) The present proposal is for expansion of TSDF from existing 3,30,750 MT waste handling capacity (i.e., 47,250 MTPA, considering 270 days of operation, 7 years of life period) to 10,50,840 MT waste handling capacity (i.e., 1,50,120 MTPA, considering 270 days of operation, 7 years of life period) by increase in depth and area of landfill cell within an Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF + Incineration facility).

(iii) The land area of the project is 64,750 sq. m and there is no change in land area after proposed expansion of TSDF handling capacity.

(iv) Total fresh water required is 158 KLD for domestic purpose, for use in incineration plant including TSDF site. Fresh water will be sourced from bore-well for which ground water withdrawal approval has been obtained from Central Ground Water Authority (CGWA).

(v) Total wastewater generation (domestic sewage, scrubber, other washings without leachates) from the proposed project is 55 KLD, which will be treated in proposed ETP (design capacity of 200 KLD) followed by reuse of RO rejects for quenching in incinerator.

(vi) Leachate generation from TSDF is estimated as ~85 KLD which will also be treated in the same ETP followed by recycling RO System. RO rejects will be reused for quenching in incinerator. The wastewater treatment system is a zero-liquid discharge system and treated water will be completely reused back for plant purposes.

(vii) As per applicable Solid Waste Management Rules 2016, domestic solid waste such as paper & food generated from the facility will be collected, stored and disposed off to approve MSW facility/recycler.

(viii) Total power requirement for project (existing + proposed expansion) is 1000 KVA and it will be supplied by PGVCL.

(ix) Following are proposed energy saving measures:

- (a) Provision of solar/LED lights as a part of energy conservation.
- (b) Use of energy efficient pumps and motors.
- (c) Conducting energy audits.
- (d) Site shall be used as solar/green park as a part of post closure activity.

Approximately 15% of energy savings is envisaged through use of LED bulbs, high efficient motors, solar street lights (~850 Nos) as per existing EC (F.No.21-40/2021-IA-III) dated 29th June, 2021 under EC condition 4, point no.(X) on page no 5. Further as a part of post closure activity it is proposed to develop 3 MW Solar Power Plant which will generate ~3.45 lakhs units per annum. This will substantially reduce the carbon footprint of the project moving forward.

(x) Total storm water in rainy season will be ~4000 cu.m. Provision of 800 m³ capacity water pond shall be provided for temporary storage of storm water (guard pond). The storm water shall be reused within the premises.

(xi) Total 405.00 sq.m area will be provided for parking within the integrated common hazardous waste management facility. Out of which 300 sq.m area will be designated parking for trucks.

(xii) M/s. Varni Enviro Care Pvt. Ltd., have obtained environment clearance dated 29.06.2021 for their

Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF + Incineration facility) at Survey No.283, Village Surai, Tehsil Chotila, Dist. Surendranagar, Gujarat.

(xiii) Certified EC compliance report has been received from IRO vide its letter dated 17.02.2023. Action Taken Report for partially complied EC conditions has also been submitted vide e-mail dated 03.03.2023.

(xiv) The project location is not within the critically polluted area.

(xv) To reduce the impact of air environment, below listed measures will be followed in Incinerator and landfill operations:

- (a) The gases coming out of the incinerator stack are passed through quencher (spray dryer/forced evaporation), cyclone separator, bag filter, packed bed scrubber for the removal of all air pollutants.
- (b) For proper dispersion of SO₂ and NO_x emissions into atmosphere, incinerator stack height meeting MoEF&CC/CPCB guidelines will be provided.
- (c) To prevent the formation of dioxins, the flue gas temperature shall be lowered from 500 °C to less than 200 °C by adopting rapid quenching /catalyst/adsorption by activated carbon.
- (d) De-mister shall be provided to eliminate mist in the stack emissions.
- (e) Attenuation of pollution/protection of receptor through green belts/green cover.
- (f) Regular monitoring of air pollutants concentrations.
- (g) DG set will be used only in case of power failure. The DG set will be provided adequate height of stack, meeting MoEF&CC/CPCB guidelines.
- (h) During operation, part of the secured land fill will be daily covered with soil/ash and during rainy period with temporary cover (1 mm HDPE/plastic sheets) to minimize the odor and gases generation.

(xvi) To mitigate the impact caused due to dust pollution following steps will be followed:

- (a) Regular water sprinkling on haulage roads to deliver continuous moisture to suppress dust in dust prone areas.
- (b) Regulate speed of vehicles in unpaved areas to reduce fugitive dust created and reduce dust to a large extent.
- (c) Care will be taken to keep all material storages adequately covered and contained so that they are not exposed to situations, where winds on site could lead to dust/ particulate emissions.
- (d) HDPE plastics will be used covering material as an effective means to reduce fugitive dust from the material stores/warehouses.
- (e) Trees will be planted all around the project boundary and regularly watered to keep the area moist to have dust control.
- (f) Use of PPEs when working in dusty areas of site.

(xvii) To mitigate the impact due to noise pollution following steps will be followed:

- (a) Periodic Maintenance and servicing of mechanized equipment and vehicles used for site operations.
- (b) Proper acoustic enclosures will be provided for DG Sets.
- (c) Noise abatement measures will be provided in critical areas of high noise levels.
- (d) Use of PPEs by workers and staff in noise generating areas.
- (e) Periodic servicing & maintenance of equipment's and machinery to reduce operational noise.

(xviii) The mitigative measures for hydrology, surface water and ground water are as follows:

- (a) Double liner system will be provided at base of landfill with proper leachate drainage layer and collection system
- (b) Base of landfill is rocky strata which are relatively impermeable and hence no percolation of any leakages will be anticipated.
- (c) Leachates will be collected in concrete leachate collection wells and further pumped to effluent/leachate treatment plant for complete treatment. Treated leachate will be reused back into Incinerator for quenching.
- (d) No contaminated waters will be let outside the site premises.

- (e) Spill control measures will be in place in storage and operational areas of site to control and divert the contaminated waters to the ETP.
- (f) All waste waters from different areas of site will be collected in a controlled bunding manner and diverted to effluent treatment plant for treatment
- (g) Provision of separate storm water drainage surrounding the landfill cell and major site areas with connection to storm water interceptors and a storm water retention pond for control/arresting of any contaminated water.
- (xix) Details of comparative analysis of existing/envisoned pollution load, changes in other project components and Hazardous Waste Management as informed by the project proponent has been provided in the Annexure II.
- (xx) The project was granted ToR by MoEF&CC vide its letter dated 26.08.2022.
- (xxi) EMP/EIA Report has been prepared as per the ToR dated 26.08.2022. The public hearing for the project was convened at the project site on 15.12.2022. The advertisement in local daily newspapers in Gujarati and English language was published on 12.11.2022. The public hearing was chaired by Deputy Collector & Sub Divisional Magistrate (Chotila) & RO-GPCB, Surendranagar. 48 nos. of people have attended the public hearing in person at site. 9 nos. of written representations from locally affected people were received before public hearing. 6 nos. of written representations from locally affected people were received after the public hearing. The major issues raised during PH and response of PP in the form of implementable action plan given in Table 4 in Annexure II
- (xxii) Baseline Environmental Monitoring for the existing project was carried out during period of December 2019 to March 2020 and the same data was valid till December, 2022. However, to strengthen the database on baseline environmental conditions of the area, a fresh environmental baseline data for various environmental attributes is also collected for the period March-2022 to May, 2022. The study area was considered to be within 10 km radius from the project site. Ambient monitoring was carried out at 9 locations within 10 km of study area. Noise monitoring was carried out at 8 locations within the study area. Surface water samples were collected at 8 locations within the study area. Ground water samples were collected at 9 locations within the study area. Surface soil samples were taken from 9 locations within the study area. The study area covers 39 villages in Chotila, Sayla and Jasdan sub-districts of Surendranagar and Rajkot district and the details for the same have been compiled from Census, 2011 and through primary sample survey and presented to describe socio-economic environment of the study area.
- (xxiii) The maximum and minimum values of PM10 are in the range of 67 $\mu\text{g}/\text{m}^3$ to 85 $\mu\text{g}/\text{m}^3$, whereas the PM2.5 is in the range of 19 $\mu\text{g}/\text{m}^3$ to 27 $\mu\text{g}/\text{m}^3$. The SO₂ concentrations within the study area are in the range of 8.1 $\mu\text{g}/\text{m}^3$ to 9.9 $\mu\text{g}/\text{m}^3$ and the NO_x are in the range of 17.2 $\mu\text{g}/\text{m}^3$ to 20.1 $\mu\text{g}/\text{m}^3$. The observed pollutant levels were compared with CPCB National Ambient Air Quality Standards and found to be within the prescribed limits.
- (xxiv) The proposed project do not require FC/CRZ/WL clearances.
- (xxv) The project is not located inside / or within 10 km of Eco-Sensitive Zone of protected area.
- (xxvi) The greenbelt in 17,730 sq.m area in which approximately 2550 nos. of trees will be planted within the project site and additional 600 nos. of trees will be planted outside the project site with consultation of local authorities.
- (xxvii) Undertaking to the effect that no activity has since been taken up has been submitted on PARIVESH.
- (xxviii) The construction work for the proposed expansion project is estimated to start by May, 2023 subject to approval of EC for the project.
- (xxix) Estimated cost of the project after expansion will be Rs.75.0 Crores (existing: Rs. 50.0 Crores + proposed expansion: Rs.25.0 Crores).
- (xxx) Employment during the construction phase is 100 people and during operational phase is 50 people.

(xxxi) The project will facilitate better management of hazardous wastes by Incineration and secured landfill will minimize the impact of solid waste disposal on land.

5. After detailed deliberation, EAC recommended the proposal for the grant of Environmental Clearance with following specific conditions and Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity while considering for accord of environmental clearance.

Annexure 1

Specific EC Conditions for (Common hazardous waste treatment, storage and disposal facilities (TSDFs))

1. Specific Condition

Sr. No	EC Conditions
1.1	Project proponent should develop green belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement. Total green area of 21,405 sq.m in which approximately 2550 nos. of trees will be planted within the project site and additional 600 nos. of trees will be planted outside the project site with consultation of local authorities.
1.2	Fresh water requirement shall not exceed 158 KLD during operational phase. Abstraction of ground water shall be subject to the permission of Central Ground Water Authority (CGWA).
1.3	Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board/CPCB. Trend analysis of ground water quality shall be carried out each season.
1.4	Project Proponent shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
1.5	Wastewater generated from the process including leachates arising from premises shall be treated in Multi-Effect evaporation (MEE) System of adequate capacity. Treated water shall be reused within the project. Toxicity Characteristic Leaching Procedure (TCLP)
1.6	No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016, shall be handled in the premises. The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management and Handling Rules, 2016.
1.7	Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorization under the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016.
1.8	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 2 kms radius of the project is maintained and improved upon after the implementation of the project. This plan shall be approved by the competent authority.
1.9	The Environmental Clearance to the project is under the provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals/clearances under any other Acts/Regulations or Statutes as applicable to the project.

Sr. No	EC Conditions
1.10	Employees shall be provided work specific PPE such as helmets, safety shoes, masks etc.
1.11	The depth of the landfill site shall be decided based on the ground water table at the site.
1.12	The project proponent shall install continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to
1.13	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
1.14	Rain water runoff from the landfill area and other hazardous waste management area shall be collected and treated in an effluent treatment plant.
1.15	The proponent should ensure that the project fulfil all the provisions of Hazardous and other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the 'Protocol for Performance Evaluation and Monitoring' for the same as published by the CPCB including collection, transportation, design etc.
1.16	Necessary provision shall be made for fire fighting facilities within the complex.
1.17	Project proponent should prepare and implement an on-site Emergency Management Plan.
1.18	Guidelines for Secured Landfill issued by CPCB shall be followed.
1.19	Gas generated in the Landfill should be properly collected, monitored and flared.

Standard EC Conditions for (Common hazardous waste treatment, storage and disposal facilities (TSDFs))

1 Statutory compliance

Sr. No	EC Conditions
1.1	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
1.2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.3	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area)
1.4	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.

Sr. No	EC Conditions
1.5	The Project proponent should ensure that the TSDF fulfils all the provisions of Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.
1.6	The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous waste treatment, storage and disposal facilities' published by the CPCB in May, 2010.
1.7	Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.
1.8	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
1.9	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
1.10	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities

2 Air quality monitoring and preservation

Sr. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.2	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
2.3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.5	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
2.6	Appropriate Air Pollution Control (As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and

Sr. No	EC Conditions
	VOCs (if any); bag filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.7	The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out. Analysis of Dioxins and Furans shall be done through CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram or equivalent NABL Accredited laboratory
2.8	Gas generated in the Land fill should be properly collected, monitored and flared
2.9	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

3 Water quality monitoring and preservation:

Sr. No	EC Conditions
3.1	The project proponent shall install continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
3.2	Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
3.3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
3.4	No discharge in nearby river(s)/pond(s).
3.5	The depth of the land fill site shall be decided based on the ground water table at the site.
3.6	The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.

Sr. No	EC Conditions
3.7	All leachates arising from premises should be collected and treated in the ETP followed by RO. RO rejects shall be evaporated in MEE. Toxicity Characteristic Leaching Procedure (TCLP) test to be performed on leachates.
3.8	The Company shall review the unit operations provided for the treatment of effluents, specially the sequencing of MEE after tertiary treatment, the source of permeate when no R.O. is recommended and the treatment of MEE condensate. The scheme for treatment of effluents shall be as permitted by the Pollution Control Board/Committee under the provisions of consent to establish.
3.9	Scrubber water, leachate water or wheel wash effluent shall be treated in the effluent treatment plant followed by RO to achieve zero liquid discharge.
3.10	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
3.11	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused within the project.
3.12	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
3.13	Rain water runoff from hazardous waste storage area shall be collected and treated in the effluent treatment plant.

4 Noise monitoring and prevention

Sr. No	EC Conditions
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5 Energy Conservation measures

Sr. No	EC Conditions
5.1	Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

6 Waste management

Sr. No	EC Conditions
6.1	The TSDF should only handle the waste generated from the member units.
6.2	Periodical soil monitoring to check the contamination in and around the site shall be carried out.
6.3	No non-hazardous wastes, as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.
6.4	The Project proponent shall not store the Hazardous Wastes more than the quantity that has been permitted by the CPCB/SPCB.
6.5	The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
6.6	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
6.7	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.

7 Green Belt

Sr. No	EC Conditions
7.1	Green belt shall be developed in an area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter alia cover the entire periphery of the project site.
7.2	Top soil shall be separately stored and used in the development of green belt.

8 Public hearing and Human health issues

Sr. No	EC Conditions
8.1	Traffic congestion near the entry and exit points from the roads adjoining the project site shall be avoided. Parking should be fully internalized and no public space should be utilized.
8.2	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
8.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
8.4	Occupational health surveillance of the workers shall be done on a regular basis.

9 Miscellaneous

Sr. No	EC Conditions
9.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
9.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
9.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
9.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
9.5	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms /conditions and/or shareholder's/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
9.6	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
9.7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
9.8	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
9.9	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9.10	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
9.11	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the

Sr. No	EC Conditions
	land development work and start of production operation by the project.
9.12	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.13	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9.14	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
9.15	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
9.16	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9.17	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
9.18	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
9.19	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.
9.20	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Annexure 2

Details of the Project

Sr. No.	Particulars	Details
a.	Details of the Project	Proposed expansion of TSDF-Landfill within an integrated common Haz. waste facility
b.	Latitude and Longitude of the project site	22.33026725046134,71.27320304477337 22.33439577294298,71.27625619063473

Sr. No.	Particulars	Details	
		Nature of Land involved	Area in Ha
c.	Land Requirement (in Ha) of the project or activity	Non-Forest Land (A)	0
		Forest Land (B)	0
		Total Land (A+B)	6.475
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost	7500	
g.	EMP Cost	530	
h.	Employment Details		

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Secured Landfill (Direct Landfill and Landfill with treatment)	Product	330750	720090	1050840	MT	Road
Hazardous Waste Incineration	Product	10850	0	10850	Tons per Annum (TPA)	Road

Copy To

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar - 382 010. Gujarat.
2. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Gandhi Nagar A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board/MoEF&CC website.

Table 1

Sl. No.	Particulars	Size/Magnitude (As per existing EC)	Size/ Magnitude (Proposed Expansion)
TSDF			
1	Area, sq.m.	23,840	27,719
2	Depth of excavation for waste fill, m	5 - 7	14.75
3	Height of retaining wall above GL, m	3 - 5	18 (2 m above GWL based on ToC survey)
4	Total height of landfill phase, m	Around 15 - 18 m above ground, 5 - 7 m below ground.	32.75
5	Volume of waste deposition, cu.m.	2,54,500 cu.m	8,07,924
6	Density of compacted waste, MT/cu.m.	1.3	1.3
7	Total waste to be dumped in landfill site, in MT	3,30,750 MT	10,50,840 MT
Incinerator			
1	Incineration(Combined Liquid & Solid Hazardous Waste)	5.5 - 6 Million K. Cal per hr. - 1 No (1500 kgs. per hr)	No change
2	Area occupied	5187 sq.m	
3	Daily waste receipt at incineration facility	35 MT per day	
4	Annual waste receipts, considering operating days 310 and 23 - 24 hrs of operation per day	10,850 MTPA	

Table 2

S.No.	Description/ Facility	Existing Details as per EC granted on 29/06/2021	Proposed changes after expansion
1	Project land area	64,750 sq.m.	No change
2	Greenbelt area	21,405 sq.m. (33%)	No change (27.38% within the premises & 5.62% along the periphery of the approach road)
3	Open area	422 sq.m.	1334 sq.m.
4	Fresh water consumption	158 KLD	No change
5	Leachate generation	45 KLD (12150 KL/ Annum)	85 KLD
6	Effluent generation	55 KLD	55 KLD
7	Capacity of effluent treatment plant	100 KLD	200 KLD
8	Power requirement	1000 kVa	No change
9	Fuel type and its consumption	HSD / LDO for incinerator : 450 kg/hr	No change

Table 3

Sl. No.	Type of waste	Categ ory of Waste	Generation (quantity)	Method of storage	Method of treatment	Handlin g & Mode of Disposal
Hazardous Waste						
1	Used / Waste / Spent Oil	5.1	3 TPA	Drum	Treatment in Incinerator	Will be disposed of within premises
2	Bags/ Drums/ barrels	33.1	500 Nos./day	In iimpervious storage area	Decontami nation at site	Sale to authoriz ed Recycler s

3	Incineration Ash	37.2	450 kgs per hr x 24 x 310 days of operation = 3348 Say 3400 MTPA	-	Ash Cooling	Will be disposed in own Secured Landfill
4	ETP Sludge	35.3	100 Kgs per day x 360 days = 36 MTPA	HDPE Bags	Dewatering	Will be disposed in own Secured Landfill
Non-Hazardous Waste						
Domestic Solid Waste: Paper & Food Waste will be sent to approved MSW Facility / recycler. Small amount of e-waste & scrap will be generated which will be sent to approved recycler						

Table 4

Sl. No.	Environmental Issue	Response from VECPL
1	Issue related to damage to Agriculture and animal husbandry	The project is being constructed as per the guidelines prescribed by CPCB & MoEF&CC as mentioned in the EIA study report. The work will be carried out as per the guidelines and will be periodically supervised by concerned government department.
2	Issue related to odour nuisance	Implementation of the designated and efficient Air Pollution Control Technology equipped with Quenching system, Spray Dryer (Forced Evaporation system), Cyclone Separator in series followed by bag filter, Ventury and bed scrubber will eliminate the anticipated odour nuisance if any.
3	Employment to local people	Employment will be provided to local people during construction and operation phase of the project as per the guidelines of GoG.
4	Troubles to local people due to vehicular movement	A new approach road of 1.9 km will be developed for the ease of movement towards the project site.

Signed by
Ashish Kumar

Date: 19-07-2023 12:13:34
Reason: Verified and signed