



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), GUJARAT)

To,

The Authority Signatory
METABOLT ENERGY PRIVATE LIMITED
871/B/3, Near Himalayan Machinery, GIDC Makarpura, Vadodara -
390010

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the SEIAA vide proposal number
SIA/GJ/INFRA2/417198/2023 dated 11 Feb 2023. The particulars of the
environmental clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC23B032GJ126581 |
| 2. File No. | SIA/GJ/INFRA2/24002/2023 |
| 3. Project Type | New |
| 4. Category | B |
| 5. Project/Activity including
Schedule No. | 7(d) Common hazardous waste
treatment, storage and disposal facilities
(TSDFs) |
| 6. Name of Project | Environmental Clearance for Common
Hazardous Waste Treatment, Storage
and Disposal facility with MEE, Spray
Dryer & Drum Decontamination facility for
Metabolt Energy Pvt. Ltd. at Survey /
Block No 46, Village Siludi, Taluka Valia,
Dist. Bharuch, Gujarat |
| 7. Name of Company/Organization | METABOLT ENERGY PRIVATE
LIMITED |
| 8. Location of Project | GUJARAT |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 08/11/2023

(e-signed)
Asav P. Gadhvi
Member Secretary
SEIAA - (GUJARAT)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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No. SEIAA/GUJ/EC/7(d)/1385 /2023

Date: 1 NOV 2023

By R P A D
Time Limit

Sub: Environment Clearance to M/s. Metabolt Energy Pvt. Ltd. for setting up of "Common hazardous waste treatment, storage and disposal facilities (TSDFs)" at Survey/Block No. 46, Village Siludi, Taluka: Valia, District: Bharuch. In Category 7(d) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/INFRA2/417198/2023.

Dear Sir,

This has reference to your application along with EIA report dated 11/02/2023 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to M/s. Metabolt Energy Pvt. Ltd. for setting up of "Common hazardous waste treatment, storage and disposal facilities (TSDFs)" at Survey/Block No. 46, Village Siludi, Taluka: Valia, District: Bharuch. It is a proposed Common Hazardous waste Treatment, Storage and Disposal Facility (TSDF) for disposal of Hazardous waste, which falls in the category - 7(d) of the schedule of the EIA Notification-2006:

Sr. No.	Description/ Facility	Capacity
1	Secured Landfill (Direct Landfill and Landfill with treatment)	~ 15 Lac MT
2	MEE with Stripper	270-300 KLD
3	Spray Dryer	100 KLD
4	UF and RO System	350 KLD
5	Drum / Decontamination Facility	1 Lac barrels per annum

The project activity is covered in 7(d) and is of 'B' Category. Public Hearing was Carried out by Gujarat Pollution Control Board dated 27/12/2022.

The SEAC, Gujarat vide their letter dated 11/08/2023 & 22/09/2023 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 13/07/2023 & 11/09/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 23/08/2023 & 16/10/2023 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A.CONDITIONS :

A.1SPECIFIC CONDITION :

1. PP shall strictly adhere to Zero liquid discharge & there shall not be any wastewater discharge outside premises.
2. PP shall provide P+S+T treatment for generated wastewater and strictly adhere to Zero liquid discharge & there shall not be any wastewater discharge outside premises.
3. Proponent shall submit copy of Notification of TSDF site from Forest & Environment department
4. Proponent shall provide intermediate collection tank of having capacity of 36.8 m3/day & final collection tank of 288.1 m3/day capacity in their plant premises for storing treated wastewater.
5. Proponent shall strictly comply of all activities as mentioned in Public Hearing proceeding.
6. Proponent shall carry out inspection of sub-committee of CPCB, GPCB & expert for the compliance of sitting criteria. Prior notification of site as per the provisions of Hazardous Waste Rule- 2016 & its amendment.
7. The above EC granted is provisionally, which will be valid, only after the TSDF Notification from State Government.
8. Proponent shall obtain Consent to establish (CTE) from GPCB as per GPCB circular dated 15.10.2022.
9. Project proponent shall start project activity only after obtaining the Notification of proposed site as per the Hazardous and Other wastes (Management and Transboundary Movement) Rules 2016.
10. Project proponent shall have to provide waste stabilization/solidification facility, a laboratory capable of Finger printing

analysis, mechanized operation of transportation and handling of wastes with trained manpower at Site.

11. PP shall carry out any activities for landfill only as per EC notification & no any integrated facilities development having incineration etc. as per provisions of EIA notification & its amendment.
12. Adequate number of vents shall be installed during post closure period of the Cell & monitoring program for emission of vent gases shall be prepared & records shall be maintained.
13. Ground water table at the project site shall be ascertained through the GWRDC (Gujarat Water Resources Development Corporation) before initiating construction of secured landfill site. The depth of the secured land fill site shall be decided based on the ground water level at the site and bottom of the secured landfill site shall be kept at least 2 m above the ground water table.
14. Construction of the secured landfill site shall be undertaken meticulously keeping in view the existing natural drainage pattern of the site to ensure that the natural drainage is not affected. All construction designs/drawings relating to the proposed landfill site must have approvals of reputed institutes like NPC / IIT.
15. The proponent shall ensure that design and construction of secured landfill site is as per the guidelines of CPCB with proper leachate collection arrangement.
16. Project proponent shall have to strictly adhere to and comply with the Guidelines / Manuals published by the different authorities for Construction and safe operation of the Hazardous Waste TSDF sites 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 along with the instruction and stipulation issued time to time for the safe handling, construction and operating of Hazardous Waste TSDF Sites.
17. Project proponent shall have to follow the Guideline for Transportation, Storage, Handling and Labeling of Hazardous Waste published by CPCB.
18. The proponent shall ensure that the transportation of the Hazardous wastes to the TSDF conforms to the norms laid down in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
19. Project proponent shall ensure that wastes with organic content > 5% of degradable organic matters are not disposed in to the landfill. However, required arrangement for collection, treatment and disposal of gases from the secured landfill, if any, shall be provided.
20. The Facility shall only handle the waste generated from the member units.
21. The project proponent shall set up necessary facility for on-site testing of wastes to decide the requirement of treatment if any, before disposal.
22. Project proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.
23. The third party assessment on functioning of the TSDF shall be carried out through a reputed institute like NPC, IIT or any academic / research institute of similar repute once in a year and mitigation measures as may be suggested by such institute shall be implemented in consultation with the Gujarat Pollution Control Board.
24. All measures shall be taken to prevent soil and ground water contamination.
25. The project proponent shall submit the detailed study report to Gujarat Pollution Control Board (GPCB) at least once in a year comprising details of percolation rate of surface water, ground water analysis and observations of contamination to soil & ground water (If any) and mitigation measures to curb ground water & Soil contamination.
26. The project proponent shall transport Hazardous waste through authorized dedicated Vehicles with GPS (Global Positioning System) enabled system and in line with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
27. The project proponent shall obtain permission under Rule-9 of Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 for drum decontamination facility.

A. 2 WATER :

28. Total water requirement for the project shall not exceed 345 KLD. Unit shall reuse 296 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 49 KLD and it shall be met through borewell water supply only. Prior permission from concerned authority for withdrawal of water shall be obtained.
29. The quantity of acceptance of industrial effluent (for MEE & spray drying) from members units shall not exceed 200 KLD.
30. The industrial effluent generation from the project shall not exceed 296 KLD.
31. Management of Industrial effluent shall be as under:
 - 135 KLD industrial effluent generated from Lab, washing (Floor, Equipment, Vehicle, drum decontamination & Pre-Processing facility), scrubber, utilities and leachate, 8 KLD domestic effluent along with 161 KLD MEE-1 condensate (i.e common MEE) shall be treated in Primary and secondary ETP followed by RO/UF.
 - 204 KLD UF/RO permeate shall be reused within premises and 100 KLD RO reject shall be treated in MEE-2.
 - 92 KLD MEE-2 condensate shall be reused within premises.
32. Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall be no drainage connection

from the premises.

33. Unit shall feed wastewater to in-house MEE only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.
34. Treated wastewater shall be subjected to in-house spray dryer only after achieving inlet norms prescribed by GPCB ensuring content of effluent for COD so as not to get air borne during spray drying after APCM in order to achieve no adverse impacts on Environment and Human Health.
35. Unit shall provide ETP, UF/RO & MEE-1 & 2 and spray dryer with adequate capacity.
36. Adequate leachate collection system shall be provided to collect the leachates at a collection point.
37. Domestic wastewater generation shall not exceed 8 KL/Day for proposed project and it shall be treated in ETP. It shall not be disposed off into soak pit.
38. There shall be no discharge of waste water or any type of Hazardous waste inside or outside the premises through illegal manner in any case.
39. The unit shall provide metering facility at the inlet and outlet of ETP, UF/RO & MEE-1 & 2 and spray dryer and maintain records for the same.
40. Proper logbooks of quantities and qualities of leachate from secured landfill site, floor/vehicle washing waste water, disposal of effluent; ETP, UF/RO & MEE-1 & 2 and spray dryer; reuse/ recycle of treated/ untreated effluent; chemical consumption in effluent treatment; quantity & quality of treated effluent; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

A.3 AIR:

41. Unit shall not exceed fuel consumption for Boiler, Fire engine pump and D G Set as mentioned below.

Sr. No.	Stack Attached To	Capacity	Stack Height (Meter)	Fuel and its quantity	APCM Equipment	Pollutants
1	DG Set	500 KVA (W + SB, common stack)	10	HSD & 350 Lit/Hr	Adequate Stack Height	PM, SO ₂ , NO _x
2	Boiler	7.5 TPH (W + SB, common stack)	35	Coal / Agro Briquette and 30 MT/Day	Multi Cyclone Separator + Bag Filter + water scrubber	PM, SO ₂ , NO _x
3	Standby Fire Engine pump	100 gpm ~ 380 lpm	10	HSD & 11 Lit/Hr	Adequate Stack height	PM, SO ₂ , NO _x

42. PP shall use approved fuels only as fuel in boilers, Fire engine pump and D G Set.
43. Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.
44. Unit shall provide adequate APCM with process gas generation sources as mentioned below.

Sr. No.	Stack Attached To	Capacity	Stack Height (m)	APCM Equipment	Pollutants
1	Spray Dryer with HAG	100 KLD	35	Multi Cyclone Separator + Bag Filter + water scrubber	PM, SO ₂ , NO _x
2	Drum Decontamination facility	1 Lac barrels per annum	11	Adequate Stack height + Alkali Scrubber and water scrubber	SO ₂ , Cl ₂ , HCl, VOC

45. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.
 - Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
 - Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
 - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
46. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
47. Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀, PM_{2.5}, HCl, Cl₂ and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in

consultation with the GPCB.

48. All transporting routes within the premises shall have asphalt roads to minimize fugitive emission.

A.4 SOLID / HAZARDOUS WASTE:

49. All the hazardous/ solid waste management shall be taken care as mentioned below.

Sr. No.	Type of Waste	Category of Waste	Generation (Quantity)	Method of Storage	Method of Treatment	Handling & Mode of Disposal
1	Used / Waste / Spent Oil	5.1	1 TPA	Drum	-	Will be sent to GPCB registered re – processor/ recycler under Rule-9.
2	Discarded Bags/ Drums/ barrels/containers	33.1	1000 Nos/day (1 No.=0.5 Kg) 500 Kg/day 182.5 MTPA ~ 185 MTPA	Waste Storage Area with impervious lining	-	In-situ decontamination followed by sale to third parties for reuse/ Ex-situ sale to authorized recyclers for sale to third party for reuse.
3	ETP Sludge	35.3	100 MTPA	HDPE Bags	Dewatering	Will be disposed in to captive TSDF site.
4	Salt (Spray Dryer)	35.3	25 x 330 = 8250 MTPA	Bags	Storage and further disposal	Will be disposed in to captive TSDF site.
5	Spent ML from Stripper	26.4	9 x 330 = 2970 MTPA	Drum	-	Will be disposed to CH/WIFE
6	Scrubbing liquid/ Bleed (APCM)	-	10 KLD = 10 MTPD	Drum	Stored and further treated	Will be collected and treated in proposed ETP followed by RO and MEE.
7	MEE salts	35.3	5 x 360 = 1800 MTPA	Bags	Storage and further disposal	Will be disposed in to captive TSDF site.

- Waste from Agro Briquettes, Fly ash, C & D waste, Bio medical waste, E-Waste, Battery waste, Plastic waste will be managed as per applicable Rules extent.

NON HAZARDOUS WASTE MANAGEMENT MATRIX

Sr. no.	Type/Name of Hazardous waste	Specific Source of generation	Category and Schedule as per HW Rules	Quantity (MT/ Annum)	Management of HW
1	Fly Ash	From bottom of APCM and boiler bottom	--	5300 MTPA	Will be sold to registered recyclers / brick manufacturers.

- Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
- The proponent shall ensure that the TSDF fulfils all the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and the design and construction of secured landfill site is as per the guidelines of CPCB with proper leachate collection arrangement.
- Temporary hazardous waste storage area having impervious bottom and roof cover shall be provided as proposed.
- The project proponent shall not store the hazardous wastes more than the quantity that has been permitted by the CPCB / Gujarat State Pollution Control Board (GPCB).
- The main operational site shall be kept covered by tarpaulin with separate rain water collection system during monsoon period.
- Project proponent shall explore possibilities with respect to reduction and reuse of hazardous waste generated by member units and received at the project site.
- All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF. This shall be

ensured by TSDF management through continuous monitoring of member industries, guidance & training programs.

A. 5 OTHER:

57. The project proponent shall carry out the activities of amount of Rs. 1.65 Crores [Solar street lights for self-sustaining Green technology, Rooftop rain water harvesting with percolation well in Government primary schools for self-sustaining Green technology, Tree Plantation (Community plantation), Rooftop Solar panel for Anganwadi, Primary schools and health centres, Upgradation of school infrastructure (Renovation, compound wall, Printers & Projectors) and Skill development training to Farmers in Dodwada, Siludi, Dinod, Boridara, Bhilvada villages] proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent. As proposed, at least Rs. 4.55 Lakhs shall be allocated for the conservation plan Schedule- I species. The activities and the action plan proposed by the project proponent to address the socio-economic and public hearing issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit.
58. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Ramans Enviro Services Pvt. Ltd. and submitted by the project proponent and commitments made during presentation before SEAC and proposed In the EIA report shall be strictly adhered to in letter and spirit.

B. GENERAL CONDITIONS:

B.1 CONSTRUCTION PHASE:

59. Water demand during construction phase shall be reduced by use of curing agents, super plasticizers and other best construction practices.
60. Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.
61. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
62. First Aid Box shall be made readily available in adequate quantity at all the times.
63. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
64. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
65. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.
66. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
67. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
68. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.
69. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.
70. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.
71. "Wind – breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.
72. "No uncovered vehicles carrying construction material and waste shall be permitted."
73. "No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."
74. Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).
75. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
76. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
77. Grinding and cutting of building materials in open area shall be prohibited.
78. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.

79. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

B.2 OPERATION PHASE:

B.2.1 WATER:

80. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
81. Industry should provide separate dedicated washing area for hand washing/bathing of worker and the waste water generated from the same should be taken into ETP.
82. All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT).
83. The unit shall continuously strive to reduce, recycle and reuse the treated effluent.
84. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.

B.2.2 AIR:

85. Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
86. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
87. Adequate Air Pollution Control Measures [APCM] shall be provided.
88. Flue gas emission & Process gas emission (Whichever is applicable) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
89. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission. (wherever feasible)
90. The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
91. Unit shall take adequate measures to control odor 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 odor vulnerable areas etc.
92. Unit shall provide Wall to Wall carpeting in vehicle movement areas within premises to avoid dusting.

B.2.3 HAZARDOUS/SOLID WASTE:

93. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
94. Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only for disposal at TSDF/CHWIF, co-processing and end-users having Rule-9 permission.
95. The by-products which fall under the purview of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 shall be handled as per the said rules and necessary permissions from the concern authority shall be obtained.
96. Unit shall submit the list of authorized end users of above mentioned wastes along with MoU signed with them at least two months in advance prior to commencement of production. In absence of potential buyers of these items, the unit shall restrict the production of respective item.
97. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
98. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
99. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
100. The design of the Trucks/tankers shall be such that there is no spillage during transportation.
101. Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
102. Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

B.2.4 SAFETY:

103. Adequate hand rails shall be provided to all the CETP units for preventing fall of any person in the CETP tanks.
104. The CETP Authority shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.
105. The occupier/project proponent shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories

106. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
107. First Aid Box shall be made readily available in adequate quantity at all the times.
108. Main entry and exit shall be separate and clearly marked in the facility.
109. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
110. Storage of flammable chemicals shall be sufficiently away from the production area.
111. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
112. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
113. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
114. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
115. Only flame proof electrical fittings shall be provided in the plant premises. (Wherever applicable)
116. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
117. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
118. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
119. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
120. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
121. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
122. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
123. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
124. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
125. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
126. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.
127. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be maintained.
128. Effective safety precaution shall be taken for chemical storage, process handling and transportation hazard.
129. Unit shall prepare and Implement SOP for safe operation of the works.
130. Comply the statutory provision of safety audit & its compliance report.
131. Effective step shall be taken for prevention of fire, explosion & toxic release.
132. Project proponent shall prepare and implement an On Site Emergency Management Plan and Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health. Adequate fire fighting facilities shall be installed to handle the fire.

B.2.5 NOISE:

133. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

B.2.6 GREEN BELT AND OTHER PLANTATION:

134. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.

135. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.
136. The PP shall develop green belt [23422 Sq m (23.75%) inside plant premises + 16000 Sq m (16.2%) along the approach road of Kondh Gram Panchayat = Total: 39422 Sq. m.] i.e. 39.95% of total plot area] as submitted before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.

B.3 OTHER CONDITION:

137. Project proponent shall obtain necessary Consents/ Authorization from the Gujarat Pollution Control Board.
138. A separate Environment Management Cell equipped with full fledged testing laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.
139. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
140. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
141. Project proponent shall comply with all the provisions of CPCB guidelines for TSDF as may be applicable from time to time.
142. Project proponent shall maintain accurate records of their member units in respect of quantity of each product manufactured, quantities and qualities of waste generated, booked & supplied to the TSDF on day to day basis and shall submit the compiled records to the GPCB on monthly basis.
143. Project proponent shall ensure that each & every member unit renews the agreement / membership on/before expiry of said agreement / membership and shall inform the GPCB about any unit not renewing the agreement / membership within stipulated period. Project proponent shall immediately inform the Gujarat Pollution Control Board about termination / suspension of membership of any member unit.
144. Project proponent shall instruct and make sure that each member unit provides hazardous waste storage area having adequate retention time.
145. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
146. Good house keeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal through common MEE at BEIL, Dahej.
147. During effluent transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with storm water.
148. Necessary measures shall be taken to prevent contamination of storm water from wastes / effluent handled at site. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.
149. Project proponent shall intimate the GPCB about occurrence of any accident, act or event resulting in discharge of poisonous, noxious or polluting matter or the likelihood of the same into a stream or land or well.
150. The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported.
151. Project proponent shall assign specific budget for socio-economic upliftment of the surrounding villages and shall undertake eco-developmental measures including community welfare program most useful in the project area for the overall improvement of the environment in consultation with the District Development Officer / District Collector.
152. Project proponent shall comply with all the recommendations as well as the environmental protection measures and risk mitigation measures/safeguards proposed in the REIA Report, Risk Assessment Report & Disaster Management Plan of the project.
153. No further expansion or modifications in the TSDF likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
154. In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the SEIAA / SEAC.
155. Project proponent shall strive to obtain the ISO 14001 and OSHAS 18001 certification.
156. The project management shall extend full support to the officers of MoEF&CC / CPCB / GPCB during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
157. A six monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of the MoEF&CC and SEIAA regarding the implementation of the stipulated conditions.
158. The project proponent shall inform the Regional Office of MoEF&CC at Bhopal as well as the SEIAA, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work
159. The Project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
160. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

- B.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:**

187.All complaints and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.com& (b) seacgujarat@gmail.com

(ASAV P. GADHVI)
Member Secretary

Survey/Block No. 46, Village Siludi, Taluka: Valia, District: Bharuch



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