

MEMBER SECRETARY
SEIAA (GUJARAT)



Government of Gujarat

STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

No. SEIAA/GUJ/EC/7(h)/ 43 /2010

Date: 20 FEB 2010
Time Limit

Sub: Environment Clearance for establishment of Common Effluent Treatment Plant (CETP) of 17 MLD Capacity at Survey No. 141 (Part), Village: Mundra, Taluka: Mundra, District: Kutch by M/s. MPSEZ Utilities Pvt. Ltd.,.....in Category 7 (h) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir,

This has reference to your application along with Form-I, and EIA Report submitted to SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance for establishment of Common Effluent Treatment Plant (CETP) of 17 MLD Capacity by M/s. MPSEZ Utilities Pvt. Ltd., Survey No. 141 (Part), Village: Mundra, Taluka: Mundra, District: Kutch. The unit is situated in the notified Special Economic Zone of MPSEZL. The total Expected cost of CETP of the proposed project would be Rs.54 crore and MUPL has been allotted a piece of land admeasuring 91158 sq.m. within the notified SEZ area by MPSEZL for the construction and development of the CETP. The proposed project is a Common Effluent Treatment Plant of 17 MLD capacity to take care of the industrial effluent and sewage generated from various units as well as infrastructure coming up in the SEZ area.

The project activity is covered in 7(h) and is of 'B' Category. Since the proposed project is located in the notified Special Economic Zone of MPSEZL, it does not need Public Consultation as per Para 7(i) III. Stage (3) (b) – Public Consultation of EIA Notification, 2006.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned project. The proposal was considered by SEIAA, Gujarat in its meeting held on 25.01.2010 at Gandhinagar. Since the EIA/ EMP was found to be adequate and complete and the public consultation is not required for the project, 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 Specific and General conditions.:

A. SPECIFIC CONDITIONS:

1. The MUPL shall conduct a study, every year for initial three years and thereafter once in a three year, through the reputed institute or the Agricultural University to assess the impacts on soil and ground water quality, if any, due to application of the treated effluent on land for plantation / gardening and adopt the additional mitigation measures as may be suggested through such studies.
2. In order to assess and control the quality of effluent discharge, the MUPL shall carry out sampling of effluent from each member unit (cluster or individual unit) on daily basis, maintain records and submit the same at interval of every month.
3. Industries having high pollution potential like dyes & dye intermediates, bulk drugs & intermediates, pesticides etc. shall not be allowed in MPSEZL. Also different kind of industries shall be allowed in MPSEZL in such proportion that effluent received at the CETP always meets with the inlet norms.

A.1 WATER:

4. Fresh water requirement for the CETP shall be 100 KL/day, which shall be sourced through Gujarat Water

Infrastructure Ltd. (GWIL) pipeline from Narmada water supply. No groundwater shall be tapped for the project.

5. The quantity of effluent discharge from the CETP shall not exceed 17000 KL/day (17 MLD).
6. The total quantity of effluent discharge (including industrial effluent and sewage overflow from septic tank - soak pit) from the member units shall not exceed 17000 KL/day (17 MLD) and it shall be conveyed through underground pipeline to the CETP for further treatment. The effluent discharge from the CETP member units (cluster or individual unit) shall conform to the following CETP inlet norms framed by the MUPL :

PARAMETERS	CETP INLET NORMS OF MUPL
pH	6.5 to 8.5
Suspended Solids	800 mg/l
BOD (3 days at 27 oC)	1000 mg/l
COD	2000 mg/l
Total Dissolved Solids	2100 mg/l
Oil and Grease	20 mg/l
Phenolic Compounds	1 mg/l
Cyanides	0.2 mg/l
Fluorides	2 mg/l
Sulphides	2 mg/l
Ammonical Nitrogen	50 mg/l
Copper	3 mg/l
Nickel	3 mg/l

For rest of the parameters, if need be, appropriate inlet CETP norms shall be framed in consultation with the Gujarat Pollution Control Board, keeping in view the CETP design, raw materials used by member units and outlet norms.

7. The individual member units will be required to achieve CETP inlet norms. If required, necessary treatment for removal of metals, ammonical nitrogen and other such parameters will be given by the individual units to meet the CETP inlet norms.
8. The MUPL will ensure that effluent discharge from member units (cluster or individual unit) complies with the inlet norms of the CETP.
9. Domestic waste water shall be discharged into septic tank / soak pit system by the individual member units and the overflow shall be conveyed to the CETP along with industrial effluent for its treatment. Domestic waste water generated at the CETP will also be treated in the CETP.
10. The MUPL will establish the adequate primary, secondary and tertiary effluent treatment facilities to achieve the GPCB norms. The CETP shall be established in modules of 2.5 MLD to achieve the ultimate capacity of 17 MLD with the passage of time depending on the actual requirements as per development of the MUSEZL. The CETP shall be operated regularly and efficiently so that quality of treated effluent from the CETP always meets with the GPCB norms.
11. The treated effluent from the CETP conforming to the GPCB norms shall be utilized for plantation / gardening within the SEZ area of MPSEZL during non rainy days whereas it shall be discharged to deep sea through outfall system of MPSEZL having CRZ permission during high rainy days.
12. Well designed effluent distribution network with sprinklers / drip pipes shall be provided for proper utilization of treated effluent for plantation / gardening.
13. The CETP shall have and use only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Such outlet shall be kept near the front gate/entrance of the CETP.
14. The MUPL shall instruct and make sure that each contributing member (cluster or individual unit) shall provide a storage tank having at least one day retention time, from where the effluent will go to the CETP for further treatment by pumping through rising main.
15. The MUPL shall give time slot to the contributing member units for discharge of effluent and implement a

- mechanism for ensuring that the member units adhere to the same.
16. The MUPL shall strictly observe & make sure that every member shall supply entire effluent quantity to the CETP.
 17. The MUPL shall be responsible for proper conveyance of effluent from their member units to the CETP. To distinguish the effluent conveyance pipelines from other pipelines, they should be coated with special colour. Periodical maintenance of effluent conveyance pipelines and valves shall be carried out to avoid any spillage or leakage of the effluent being conveyed to the CETP from the member units.
 18. Magnetic flow meters shall be provided at the inlet and outlet of the CETP as well as ETP outlets of the CETP member units and records for the same shall be maintained and submitted regularly.
 19. The MUPL shall install pH sensor based solenoid valve with alarm device at the inlet of Equalization Tanks. Emergency Tank shall be provided at the CETP for diverting effluent not meeting with the CETP inlet norms, in case of unforeseen circumstances.
 20. The MUPL shall also install pH sensor with alarm device at final out let to ensure that effluent being discharge is always neutral.
 21. All the chemicals and nutrients which are required to be added / dosed in any CETP unit shall be added by using "Metering Pumps" only.
 22. The MUPL shall not keep any bypass line or system, or loose or flexible pipe for discharging effluent outside or even for conveying treated or untreated effluent within the CETP premises.
 23. The MUPL shall provide impervious tanks / HDPE tanks / impervious guard ponds to hold effluent for at least 48 hours in the case of either maintenance of the CETP or process disturbances and any untreated effluent shall never be discharged into the environment.
 24. In case of power failure, stand-by D.G.Set/s having power generation capacity equivalent to the requirement of power to run the CETP shall be installed, so that the CETP shall always be operated round the clock even in case of power failure.
 25. The MUPL will maintain daily log books for the quantity and quality of effluent discharged by the member units, quantity and quality of inflow into the CETP, details of the treatment at each stage of the CETP including the chemicals used, MLSS / MLVSS & DO concentrations in Aeration Tanks, quantity of sludge extracted from the treatment process, energy consumed in treatment, quantity and quality of effluent utilized for plantation / gardening, quantity and quality of effluent discharged to deep sea through outfall system of MPSEZL etc. Details of the member units failing to comply with the CETP inlet norms shall be submitted to the GPCB on regular basis.
 26. The MUPL shall set up a full fledge laboratory for collection, analysis of samples to monitor the effluent quality and deploy competent technical staff for the analysis and monitoring purpose.
 27. Regular effluent quality monitoring shall be carried out for relevant parameters and the monitored data along with the statistical analysis and interpretation should be submitted to the GPCB on monthly basis.
 28. The company shall also have to submit every month, the analysis reports of the samples of effluent got collected and analysed by one of the recognized laboratories.
 29. The third party inspection of the CETP with respect to the compliance of the norms shall be carried out through a reputed institute like NEERI, IIT, etc. once in a year and mitigation measures as may be suggested by such an institute shall be implemented in consultation with the Gujarat Pollution Control Board.
 30. The MUPL shall maintain accurate records of their member units in respect of quantity of each product manufactured, quantity of water consumption, quality of trade effluent, quantity of effluent generated, booked & supplied to CETP on day to day basis and shall submit the complied record to the GPCB on monthly basis.
 31. Ground water quality shall be monitored on regular basis with piezometer bore wells at suitable locations in consultation with GPCB and its records shall be maintained. The monitored data along with interpretation shall be submitted at least once in six months.

A.2 AIR :

32. Adequate stack height as per prevailing norms shall be provided to the D.G. Set. The flue gas emission from the D. G. Set shall comply with the norms prescribed by the GPCB

33. The ambient air quality shall be monitored in and around the CETP area and results shall be submitted to the GPCB. The locations for the ambient air quality monitoring shall be fixed and reviewed in consultation with the GPCB.

A.3 SOLID WASTE:

34. The MUPL must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008, as may be amended from time to time. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
35. CETP sludge shall be dried, packed and stored in designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
36. CETP waste shall be disposed at authorized common TSD facility. The company shall obtain necessary permission of the TSD operator for disposal of CETP sludge.
37. Discarded containers / drums / bags / liners shall be either reused or returned back to suppliers or sold to the authorized vendors after decontamination.
38. Used oil shall be sold to the registered recyclers.

A.4 SAFETY:

39. Adequate hand rails shall be provided to all the CETP units for preventing fall of any person in the CETP tanks.
40. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of chemicals. Handling and dosing of the materials shall be done in such a manner that minimal human exposure occurs.
41. All the storage tanks shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls shall be provided to the storage tanks. Close handling system of chemicals shall be provided.
42. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency, regular medical check up of the workers and keeping its record etc.
43. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
44. First Aid Box shall be made readily available in adequate quantity.
45. Training shall be imparted to all the workers on safety and health aspects of chemicals handling and CETP operations.
46. 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.
47. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.

A.5 NOISE:

48. The overall noise level in and around the CETP area and D.G. Set 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.

A.6 GREEN BELT AND OTHER PLANTATION:

49. The MUPL shall develop green belt within premises as per the CPCB guidelines, preferably with local species, and shall submit an action plan of plantation for next three years to the GPCB.

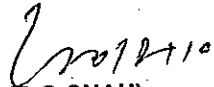
B. GENERAL CONDITIONS:

50. GPCB will ensure while granting CTE to individual units that no industry of heavy pollution potential is allowed in such SEZ.
51. Construction of the proposed CETP should be undertaken meticulously confirming to the existing central /

- local rules and regulations. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Department/Agencies.
52. In the event of the CETP's not functioning as proposed / breakdown of the CETP, the CETP member units shall be immediately intimated to stop discharging the effluent / to shut down their plants immediately. The effluent from the member units shall not be received at CETP until the desired efficiency of the CETP has been achieved.
 53. If the CETP fails to achieve the GPCB norms at its outlet; the individual units shall provide and operate the Effluent Treatment Plant (ETP) with adequate primary, secondary and tertiary treatment facility to achieve the GPCB norms.
 54. The MUPL shall ensure that each & every member renews the agreement on/before expiry of said agreement and shall inform the GPCB about any unit not renewing the agreement within stipulated period. The MUPL shall immediately inform the Gujarat Pollution Control Board about termination / suspension of the CETP membership of any member unit.
 55. The MUPL shall not allow any new member or enhance effluent quantity of existing members unless & until they have prior requisite permissions from competent authorities.
 56. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
 57. Good house keeping shall be maintained within the CETP 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.
 58. During effluent transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
 59. Storm water shall not be mixed with the effluent. The storm water drains shall be kept separate and shall remain dry throughout the year except monsoon.
 60. The MUPL 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.
 61. The Environmental Management Cell with suitably qualified staff for implementation of the stipulated environmental safeguards and for monitoring functions shall be set up under the control of the Chief Executive of the Company.
 62. 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.
 63. The MUPL shall take appropriate community development and welfare program for improving socio-economic environment of the villagers in the vicinity of the project site. A separate fund shall be allocated for this purpose.
 64. The MUPL 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.
 65. No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF/ SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/ SEIAA/ SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
 66. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
 67. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.

68. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
69. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
70. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
71. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
72. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. 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, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
73. This environmental clearance is valid for five years from the date of issue.

With regards,
Yours sincerely,


(R.G.SHAH)


Member Secretary

Issued to:

✓ M/s. MPSEZ Utilities Pvt. Ltd.,
Survey No. 141 (Part),
Village: Mundra,
Taluka: Mundra,
District: Kutch.

Copy to:-

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat, Secretariat, Gandhinagar-382010.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File


(R.G.SHAH)
Member Secretary