



SANJIV TYAGI
MEMBER SECRETARY
SEIAA, GUJARAT

**STATE LEVEL ENVIRONMENT IMPACT
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No. SEIAA/GUJ/EC/1(d)/ 2008

Date:

Time Limit

To,
M/s Selco International Limited,
Ahmedabad Municipal Corporation,
Nr. Narol-Pirana highway,
Village: Gyaspur,
Dist: Ahmedabad.

Sub: Environment Clearance for Thermal Power Plant at Ahmedabad Municipal Corporation, Nr. Narol-Pirana highway, Village: Gyaspur, Dist: Ahmedabad by M/s Selco International Limited Thermal Power Plant in Category 1(d) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir,

This has reference to your application made along with Application Form 1, EMP and feasibility report and submitted to SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance for setting up of the Power Plant - 7.5 MW from the Refuse Derived Fuel i.e. municipal solid waste of the Ahmedabad Municipal Corporation and Auxiliary fuel (agro fuel) by M/s. Selco International Limited, Ahmedabad Municipal Corporation, Nr. Narol-Pirana highway, Village: Gyaspur, Dist: Ahmedabad. The unit is located in Narol-Pirana highway on a designated landfill site which has obtained the authorization of the Gujarat Pollution Control Board. The Area of the project site is 1,21,500 Sqm. The built up area of the site is 24300 Sqm. The total cost of the project would be Rs. 46 Crore.

The project activity is covered in 1 (d) and is of 'B2' Category. Since the proposed project has been categorized as B2, 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 products. The proposal was considered by SEIAA, Gujarat in its meeting held on 30.08.2008 at Gandhinagar. Since the EIA/ EMP Report 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:

A.1 WATER:

1. Water consumption for the project shall not exceed 650 m³/day and shall be met with through piped water supplied to the project proponent by Ahmedabad Municipal Corporation.
2. No groundwater shall be extracted for the purpose of this project in any case.
3. The Unit shall also adopt the rainwater harvesting from roof tops and storm water drains to recharge the ground water.
4. The wastewater generating from the power plant (13 m³/day) shall be fully utilized for gardening and plantation or sprinkling of it over the fly ash storage for suppression of dust after adequate treatment and achieving the norms prescribed by the GPCB. There should not be any discharge of industrial wastewater from the power plant
5. Domestic wastewater should be discharged as per GPCB norms / guidelines.

A.2 AIR:

6. High efficiency Electro Static Precipitator (ESP) with efficiency not less than 99.9% shall be installed and operated to ensure that particulate matter emission does not exceed the norms prescribed by the GPCB. In case of failure of the ESP, the unit shall immediately shut down the power plant and if need be appropriate instrumentation control shall be provided for this purpose.
7. Third party monitoring of the functioning of the ESP alongwith its efficiency shall be carried out once in a year through a reputed institute / organization.
8. A flue gas stack with minimum of 45 m height shall be provided.
9. The fuel used for the project shall be Refuse Derived Fuel which shall be obtained from the Municipal Solid waste of Ahmedabad Municipal Corporation and Auxiliary fuel (Husk). The ratio of the above fuels shall be 75% and 25%.
10. Ambient air quality levels shall not exceed the standards stipulated by Gujarat Pollution Control Board.
11. Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. The location of the monitoring stations and frequency of the monitoring shall be decided in consultation with GPCB.
12. Necessary Odour prevention and control measures shall be taken including controls like masking agents, spraying of bio-chemicals on MSW to prevent odour at source.
13. Vehicle used for transportation of the MSW, Fly ash shall be in good condition and fully covered and closed from the top.
14. The fugitive emission in the work zone environment shall be monitored. This emission shall conform to the standards prescribed by the concerned authorities from time to time (eg. Directorate of Industrial Safety & Health, GPCB). Following indicative guidelines shall be followed to reduce the fugitive emission:
 - a) Enclosure shall be provided at all loading and unloading operations.
 - b) Adequate dust extraction system such as bag filter, water spray system in the dusty area like fly ash handling area and other vulnerable areas shall be provided.

- c) All transfer points shall be fully enclosed.
- d) Accumulated husk dust /fly ash on the ground and other surfaces shall be removed / swept regularly and watering of the area after sweeping shall be carried out.
- e) Internal road shall be either paved properly to reduce the fugitive emission during vehicular movement.
- f) Air borne dust shall be controlled with water sprinklers at suitable interval in the plant.

A.3 SOLID WASTE:

- 15. All the Municipal Solid Wastes to be used in the project shall be stored above the high flood level of the area and on the pucca flooring having leachate collection sump. The leachate generated if any, shall be treated in the ETP to meet with the norms to be prescribed by the GPCB for this purpose and disposed off as per the consent of the GPCB.
- 16. The inorganic waste and left-over generated due to the pre-treatment of the MSW shall be disposed at the secured land fill site of the Ahmedabad Municipal Corporation.
- 17. No fly ash pond shall be made.
- 18. Adequate storage facility for the fly ash in terms of close silos shall be provided at site.
- 19. Handling of the fly ash shall be close and through pneumatic system.
- 20. Ash shall be handled in only dry state. The ash generated shall be either sold to bricks manufacturing plant or cement manufacturer. Necessary records shall be maintained for this purpose and furnished to the GPCB from time to time.
- 21. ETP waste to be generated shall be disposed into local TSDF site.
- 22. Used oil / waste oil shall be sold only to the registered recycler.

A.4 SAFETY:

- 23. Necessary precautions like continuous monitoring of hot spots (due to methane generation in the MSW) using temperature detection systems, water sprinklers, avoiding stacking of refuse, husk near steam pipeline etc. shall be made for storing coal and lignite to prevent fire hazard.
- 24. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
- 25. First Aid Box shall be made readily available in the unit.
- 26. 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 on regular basis as per Factories Act & Rules.

A.5 NOISE:

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

28. Noise levels for workers shall be as per the Factories Act & Rules.

A.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

29. The company shall undertake following various waste minimization measures including:
- a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or raw materials substitutes in other processes.
 - c) Use of automated and enclosed filling to minimize spillage.
 - d) Venting equipment through vapour recovery system.
 - e) Use of close feed system into project.
 - f) Good house-keeping shall be maintained.

A.7 GREEN BELT AND OTHER PLANTATION:

30. Unit shall develop green belt having 7.5m width all along project periphery consisting of at least three rows of trees of local species. The number of trees in the green belt should be as per guidelines of CPCB.

B. GENERAL CONDITIONS:

31. Rag-pickers shall not be allowed in the premises. Stray animals shall also not be allowed in the premises. Necessary fencing, boundary along the project site shall be made and maintained.
32. The project proponent shall carry out various activities in accordance with the guidelines and provisions of the Municipal Solid Wastes Rules-2000 amended from time to time.
33. Environment Management Cell shall be created by the project proponent that will look after the environment and safety aspects of the project including maintenance of good house keeping.
34. The provisions of the Buildings and Other Construction Workers Rules shall be complied with by the project proponent in addition to other statutory requirements under different environmental, pollution control and safety related Acts and Rules.
35. The unit shall make every effort to obtain the ISO 14001 and OSHAS 18001 certification.
36. The unit shall take up necessary socio-economic upliftment activities as Corporate Social Responsibility and shall submit list of activities with annual budget allocation to the SEIAA.
37. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
38. The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards recommended in the EIA / EMP report as well as other proposals made by them.
39. The applicant 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.
40. 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.
41. 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.

42. 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.
43. 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.
44. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
45. 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.
46. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
47. 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.
48. The applicant shall earmark 0.1 % of their turnover for eco-development works, the nature of which will be specified by the authority later on.
49. The applicant shall earmark funds for plantation of trees within factory premises or in nearby municipal/ AUDA / *Gram Panchayat* area within Ahmedabad District. The applicant shall plant 15,000 trees over a period of 5 years and maintain them for 10 years ensuring a survival rate of 80%.
50. This Environmental Clearance is valid for five years from the date of issue.

With regards,
Yours sincerely,

(SANJIV TYAGI)
Member Secretary,
State Level Environment Impact Assessment Authority
Gujarat

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. Select File.

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