



SANJIV TYAGI
MEMBER SECRETARY
SEIAA, GUJARAT

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

Date:

Time Limit

To,
M/s. Varrsana Energy Infrastructure Limited,
Survey No.113/P1/P2,114,111,112/1 & 112/2,
Village: Varrsana,
Taluka: Anjar,
District: Kutch.

Sub: Environment Clearance for Captive Power Plant- 36 MW in the existing unit at Survey No.113/P1/P2,114,111,112/1 & 112/2, Village: Varrsana, Taluka: Anjar, District: Kutch by M/s. Varrsana Energy Infrastructure Limited..... 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, EIA/ EMP and feasibility report submitted to MoEF, seeking environmental clearance under Environment Impact Assessment Notification, 2006. Later, SEAC had received this application from the Ministry of Environment & Forest, Government of India, after formation of the State Level Environment Impact Assessment Authority (SEIAA), Gujarat and the State Level Expert Appraisal Committee (SEAC), Gujarat.

It is noted that the proposal is for environmental clearance for setting up of 36 MW captive power plant by M/s. Varrsana Energy Infrastructure Limited, Survey No.113/P1/P2,114,111,112/1 & 112/2, Village: Varrsana, Taluka: Anjar, District: Kutch. The unit is located in notified industrial estate. Total land acquired is **30 acres**. Total cost of the project is **126 crores**.

SEAC has received an application along with Form-I and Rapid Environment Impact Assessment Report (REIA), of the above cited project from the applicant alongwith (i) final Rapid Environmental Impact Assessment Report (ii) A copy of the CD of the Public Hearing proceedings (iii) A copy of project feasibility report vide letter no. nil dated 5/11/2007.

SEAC also received copy of the public hearing proceeding from State Level Environment Impact Assessment Authority vide letter no. GPCB/PH/2007-08/KUTCH-04/32532 dated 21/11/07.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project setting up of 36 MW captive power plant. The proposal was considered by SEIAA, Gujarat in its meeting held on 10.03.2008 at Gandhinagar. Since the EIA/ EMP Report was found to be adequate and complete and as 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 280 m³/ day and shall be met with through surface water to be provided by them Gujarat Water Supply and Sewerage Board. No groundwater shall be extracted for the purpose of this project either during construction or operation phases.
2. The unit shall also endeavor to meet with their water requirement for activities other than this power plant also through surface water sources. The rain water harvesting activity shall be taken up appropriately. The Unit shall also adopt the rainwater harvesting from roof tops and storm water drains to recharge the ground water.
3. The industrial wastewater generating from the power plant (140 m³/ day) shall be utilized for dust suppression and green belt development after adequate treatment to achieve the norms prescribed by Gujarat Pollution Control Board, within premises.
4. Domestic wastewater should be discharged as per GPCB norms.

A.2 AIR:

5. High efficiency Electro Static Precipitators (ESPs) 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.

6. A flue gas stack of 85 m height shall be provided with online monitoring system.
7. Lime stone injection technology shall be adopted to control SO₂ and it shall be ensured that SO₂ levels in the ambient air do not exceed the prescribed standards.
8. Sulfur and ash content of the Lignite shall be analyzed and its record shall be maintained. Its content shall not exceed 2% and 10% respectively.
9. Ambient air quality levels shall not exceed the standards stipulated by Gujarat Pollution Control Board.
10. 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.
11. 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. Directorate of Industrial Safety & Health). Following indicative guidelines shall be followed to reduce the fugitive emission:
 - Enclosure shall be provided at all loading and unloading operations.
 - 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.
 - All transfer points shall be fully enclosed.
 - Accumulated coal dust /fly ash on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.
 - Internal road shall be either paved properly to reduce the fugitive emission during vehicular movement.
 - Air borne dust shall be controlled with water sprinklers at suitable interval in the plant.

A.3 SOLID WASTE:

12. No ash pond shall be made.
13. Adequate storage facility for the fly ash in terms of close silos shall be provided at site.
14. Handling of the fly ash shall be close and through pneumatic system.
15. Ash shall be handled in only dry state. Ash generated shall be utilized for in house bricks / paving block manufacturing plant or sold to the cement manufacturer. Necessary records shall be maintained for this purpose and furnished to the GPCB from time to time.
16. Used oil / waste oil shall be sold only to the registered recycler.

A.4 SAFETY:

17. Necessary precautions like continuous monitoring of hot spots (ignited coal) using temperature detection systems, water sprinklers, avoiding stacking of coal near steam pipeline etc. shall be made for storing coal and lignite to prevent fire hazard.
18. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
19. First Aid Box shall be made readily available in the unit.
20. 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 HEALTH:

1. Periodical Medical checking in the industrial units shall be done through reputed Medical Institutes/ Civil Hospitals/ ESIS/NIOH or Institutes designated by NIOH. The periodicity of such medical check up must be decided in Consultation with GPCB.

A.6 NOISE:

21. 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.
22. Noise levels for workers shall be as per the Factories Act & Rules.

A.7 GREEN BELT AND OTHER PLANTATION:

23. Unit shall develop green belt having 7.5 m width all along factory 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.
24. The unit shall take up massive plantation activities within the plant and in the nearby villages by involving the communities.

B. General Conditions:

25. 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.

26. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) for Chlor Alkali plants.
27. The company shall undertake eco-developmental measures including community welfare program most useful in the project area for the overall improvement of the environment. The eco-development plan shall be submitted to GPCB within three months of receipt of this letter.
28. 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.
29. The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water. Also harvesting of surface as well as rainwater from the rooftops of the building proposed in the project shall be undertaken and the same shall be used for the various activities of the projects to conserve fresh water.
30. 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.
31. 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.
32. 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.
33. **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.**
34. 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.

35. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
36. 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.
37. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
38. 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.
39. 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 Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010,
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. Select File.

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