



SANJIV TYAGI
MEMBER SECRETARY
SEIAA, GUJARAT

**STATE LEVEL ENVIRONMENT IMPACT
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No. SEIAA/GUJ/EC/3(b)/ /2008

Date: . .2008

Time Limit

To,
M/s. Rotary Tech Cement Pvt. Ltd.,
Survey No. 315/P,316/P,317/P,
Village: Patidad, Ta: Gondal,
District: Rajkot.

**Sub: Environment Clearance for cement manufacturing unit at Survey No. 315/P, 316/P, 317/P,
Village: Patidad, Ta: Gondal, District: Rajkot by M/s. Rotary Tech Cement Pvt. Ltd..... in
Category 3 (b) 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 and 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 manufacturing the **Cement - 2,80,000 Mt / Annum** (Dry Process-Rotary Kiln technology based) by **M/s. Rotary Tech Cement Pvt. Ltd., Survey No. 315/P, 316/P, 317/P, Village: Patidad, Ta: Gondal, District: Rajkot.** The unit is located in notified industrial estate. Total land acquired is **1,30,592 Sqm.** Expansion will be within existing land. Total cost of the project **Rs. 21 Crores.**

The project activity is covered in 3 (b) and is of 'B' Category. Since the proposed project is in notified industrial area, 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 27.06.2008 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 during operation phase of the project shall not exceed 20 m³ per day which shall be obtained from existing bore wells. Necessary permission in this regard shall be obtained from the Central Ground Water Authority / Board.
2. There shall not be any industrial wastewater discharge from the unit.
3. Domestic wastewater shall be discharged as per GPCB norms through septic tank and soak pit.

A.2 AIR:

4. Following Air Pollution Control Measures (APCM) shall be provided :

| Sr. No. | Section | Type of APCM |
|----------------|----------------------|--|
| 1 | Rotary Kiln | Bag filter (with proper metallic casing, adequate stack height and stack monitoring requirement facility). |
| 2 | Cooler | Multi Cyclone (with proper metallic casing, adequate stack height and stack monitoring requirement facility). |
| 3 | Raw Mill | Bag filter (with proper metallic casing, adequate stack height and stack monitoring requirement facility). |
| 4 | Coal Mill | Bag filter (with proper metallic casing, adequate stack height & stack monitoring requirement facility). |
| 7 | Cement grinding unit | Bag filter (with proper metallic casing, adequate stack height and stack monitoring requirement facility). |

The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results & better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB).

5. Design of the Air Pollution Control Measures (APCM) as proposed in the Environment Management Plan / EIA shall be validated through the agencies like NPC, IIT and other such reputed institutes.
6. Interlocking facility of the pollution control equipment and the equipment(s) to which it is attached should be provided in such a manner that in the event of pollution control equipment not working, the respective unit(s) is shut down automatically.
7. The applicant shall regularly carry out third party monitoring with respect to the efficacy of the air pollution control equipments through the credible institute and upgrade the EMS from time to time as required and furnish the reports in this regard to the Gujarat Pollution Control Board at regular interval of six months.
8. Adequate stack height as per GPCB norms shall be provided to the D.G. Sets.
9. At least four ambient air quality monitoring stations shall be established in the downward direction

as well as where maximum ground level concentration is anticipated in consultation with Gujarat Pollution Control Board. Data on ambient air quality monitoring shall be regularly submitted to the GPCB and SEIAA once in three month.

10. The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities including Director of Industrial Health and Safety as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the fugitive emission.
 - a) Enclosure shall be provided at all loading and unloading operations.
 - b) Water shall be sprayed on all raw materials stock pile periodically to retain some moisture in top layer except wet gypsum to reduce the fugitive emission.
 - c) All transfer points shall be fully enclosed.
 - d) Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.
 - e) Internal road shall be either Asphalted or 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.
 - g) The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas. (eg. raw material loading, unloading, conveying, transporting, stacking, bagging and packing etc.)Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.

A.3 SOLID WASTE:

11. Used oil / waste oil shall be sold only to the registered recycler.
12. The solid waste collected in the different Air Pollution Control Measures and other collection systems shall be reutilized in the plant itself.

A.4 SAFETY:

13. Necessary precautions like continuous monitoring of hot spots (ignited coal) using temperature detection systems, water sprinklers, etc. shall be taken while storing coke /crushed coke to prevent fire hazard.
14. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
15. First Aid Box shall be made readily available in the unit.
16. 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:

17. 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.
18. Noise levels for workers shall be as per the Factories Act & Rules.

A.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

19. Efforts shall be made to use more fly ash in cement manufacturing.
20. Efforts shall be made to make use of high calorific hazardous waste as fuel in kiln and while using such waste the temperature shall be maintained above 1150 °C.
21. 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-product(s) from the process as raw material(s) or raw material(s) 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 batch reactors.

A.7 GREEN BELT AND OTHER PLANTATION:

22. Unit shall develop green belt having 10.0m width all along factory periphery consisting of at least three rows of trees of local species.

B. GENERAL CONDITIONS:

23. **The applicant shall get the requirement of water allocated from any agency/ authority of Government of Gujarat. The Ground Water tapping would be done only after the approval of CGWA.**
24. **The applicant shall set up an Environment Management Cell during construction phase as well as during operation phase comprising of persons with Environmental Engineer/ Environmental Scientist qualification and experience in field of Environment.**
25. **The applicant shall install fixed APCMs as recommendations made by SEAC.**
26. **The applicant shall get third party varification of APCM done during installation and operation subsequently. The monitoring shall be done by the third party every three months.**
27. **The applicant shall install fixed pipeline for water Sprinkler System with a suitable timer.**
28. **The applicant shall get a third party Certificate from a reputed expert agency like NPC,**

LDCE, DDIT about installation of all EMS. The GPCB shall not grant CCA to the unit unless the expert agencies grant a Certificate to it about installation of all EMS.

29. **The Quantity of the unit is less than 50 T/m and i.e. why they have been categorized in Category B. The unit shall not increase the quantity proposed for atleast next three years.**
30. **Agricultural land or land for which NA has not been done hence applicant shall not be used for agricultural erection of this plant.**
31. **The applicant will install Hot Air Generator with a noise rating not exceeding 90 dB.**
32. **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.**
33. 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.
34. The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) for Chlor Alkali plants.
35. 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.
36. 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.
37. 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 waster.
38. 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.
39. 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.
40. 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.
41. 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.

42. 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.
43. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
44. 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.
45. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
46. 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.
47. The applicant will install Hot Air Generator with a noise rating not exceeding 90 dB.
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. 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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