



No. SEIAA/GUJ/EC/3(b)/ /2009

Date:

Time Limit

To,
M/s. Royal Cement Co.
Revenue Survey No. 808/1,
Village: Ghuntu, Ta: Morvi,
District: Rajkot.

Sub: Environment Clearance for cement manufacturing unit at Revenue Survey No. 808/1, Village: Ghuntu, Ta: Morvi, District: Rajkot by M/s. Royal Cement Co.,..... 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 Form-I and project feasibility report submitted to SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance for manufacturing of the **cement - 4500 Mt/Month**(Dry Process-Vertical Shaft Kiln technology based) by M/s **Royal Cement Co., Revenue Survey No. 808/1, Village: Ghuntu, Ta: Morvi, District: Rajkot**. Total land acquired for the purpose is 10016 sq. m. The total cost of the project would be Rs. 173 Lacs.

The project activity is covered in 3 (b) and is of 'B' Category. The Public Hearing of the proposed project was carried out on 17.10.2008 at Morbi Circuit House, Morbi, Dist. Rajkot.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned products. The Public Hearing has been conducted on 17.10.2008 and the proposal was considered by SEIAA, Gujarat in its meeting held on 04.05.2009 at Gandhinagar. The applicant submitted final EIA in the month of November. 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, Additional and General conditions.:

A. SPECIFIC CONDITIONS:

A.1 WATER:

1. Water consumption during operation phase of the project shall not exceed 10m³ per day which shall be obtained from existing bore wells. The project proponent shall obtain the permission of Central Ground Water Authority.
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	Vertical Shaft 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 institutes like NPC, IIT, L.D. College of Engineering or any other such reputed institute.
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(s) 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 one year.
8. Adequate stack height as per GPCB norms shall be provided to the D.G. Sets.
9. The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall confirm 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 for prevention and control of the fugitive emission shall be followed.

A.3 SOLID WASTE:

10. Used oil / waste oil shall be sold only to the registered recycler.
11. 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:

12. 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.
13. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
14. First Aid Box shall be made readily available in the unit.
15. 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:

16. 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 sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environment (Protection) Act & Rules, 1986.
17. Noise levels in the work area shall be as per the Factories Act & Rules.

A.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

18. Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.
19. 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 0C.
20. 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 process.
 - 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:

21. The unit shall develop green belt in about 5000sq.m. area within factory/ in periphery of unit as suggested in EMP of the project, consisting of at least three rows of trees of local species on periphery.

B. ADDITIONAL CONDITIONS:

22. The applicant shall install a standby blower to take care of any break down in Bag Filter.
23. The applicant would go for annual maintenance contract in order to ensure that there are no leakages/ breakages/ puncturing in the Bag Filter.
24. The applicant shall provide and comply with the above prior to obtaining CCA from GPCB.
25. The applicant shall get third party verification of APCM done during installation and operation subsequently. The monitoring shall be done by the third party every three month.
26. The applicant shall set up an Environment Management Cell during construction phase as well as during operation phase comprising of persons with qualification of Environmental Engineer/ Environmental Scientist and with some experience in field of Environment.
27. The applicant shall monitor Ambient Air Quality & submit Quarterly & Half yearly report, to State Level Environment Impact Assessment Authority(SEIAA) endorsed by Gujarat Pollution Control Board(GPCB).
28. The applicant shall carry out plantation at roadside and shall responsible for maintenance and upgrading of the road surrounding their site.

C. GENERAL CONDITIONS:

29. The applicant shall obtain raw materials like lime and other minerals from the quarries having valid Consolidated Consent & Authorization of the Gujarat Pollution Control Board.
30. All the recommendations of the Corporate Responsibility of Environment Protection (CREP) shall be strictly followed.
31. All the recommendations made in the EIA / EMP report of the project and the undertaking submitted by the

- project proponent shall be implemented.
32. The applicant must harvest the rainwater from roof tops and storm water drains to recharge the ground water.
 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 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.
 35. 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.
 36. 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.
 37. 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.
 38. 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 of the same shall be forwarded to the concerned Regional Office of the Ministry.
 39. 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.
 40. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
 41. 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.
 42. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
 43. The six monthly compliance reports on the conditions mentioned hereinabove shall be furnished regularly to the GPCB, SEIAA and the Ministry of Environment and Forests, Government of India at their Regional Office in Bhopal.
 44. The company in a time bound manner shall implement these conditions. 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.
 45. This Environmental Clearance is valid for five years from the date of issue.

With regards,

Yours sincerely,

(R.G.SHAH)
Member Secretary

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