

Government of Maharashtra

No. SEAC-2010/CR.708/TC.2

Environment department
Room No. 217, 2nd floor.
Mantralaya Annexe.
Mumbai- 400 032.
Dated: 14th June, 2011

To,
M/s. Heidelbergcement India Ltd.
Village Khar Karavi, Gadab, Taluka Pen,
District Raigad, Maharashtra - 402 107

Sub: Proposed expansion project of cement grinding unit at Village Khar Karavi, Gadab, Taluka Pen, District Raigad by M/s. Heidelbergcement India Ltd. - Environmental clearance regarding.

Sir,

This has reference to your communication dated 10th June, 2010 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 35th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 35th meeting held on 11th March, 2011

2. It is noted that the proposal is for grant of Environmental Clearance for Proposed expansion project of cement grinding unit at Village Khar Karavi, Gadab, Taluka Pen, District Raigad by M/s. Heidelbergcement India Ltd. The project considered by SEAC under screening category 3(b) of EIA Notification 2006. Project proponent submitted EIA report.

Project information from submitted & considered documents is summarized as below-

Name of the Project	:	Proposed expansion project of cement grinding unit from 0.97MTPA to 1.7MTPA
Project Proponent	:	Heidelbergcement India Ltd.
Location of the project	:	Village Khar Karavi, Gadab, Taluka Pen, District Raigad
Total area of the plot	:	12.00 ha
Total built up area	:	2.00 ha
Estimated cost of the project	:	₹ 65 crore

Main product Cement:

- Existing : 0.97 MTPA
- Proposed : 0.73 MTPA
- Total : 1.7 MTPA

Water requirement:

- 150 m³/day (Existing)
- 200 m³/day (Proposed Expansion)

Industrial Effluent: NIL

Total Domestic effluent: 13.6 m³/day

- 12 (Existing)
- 1.6 (Proposed Expansion)

Sewage will be treated in Sewage treatment Plant. The treatment consists of constructed wetland (Phytoreed Technology) exclusively designed for treatment of municipal, urban and industrial treatment.

Capacity of STP: 15 M³/day

Power requirement (MVA)

- 5 (Existing)
- 6 (Proposed Expansion)

Raw Materials**Clinker (MTPA)**

- 0.53(Existing)
- 0.41(Proposed Expansion)

Slag (MTPA)

- 0.39(Existing)
- 0.29(Proposed Expansion)

Gypsum (MTPA)

- 0.049(Existing)
- 0.031(Proposed Expansion)

Raw Material & Its Source

- The clinker shall be brought from Gujarat based cement plants/ Imported by Ship to nearby Jetty. From Jetty to grinding unit it is transported by road.
- Slag will be taken from adjoining ISPAT Industries Ltd. steel plant through a dedicated belt conveyor system which is already in operation. The same belt conveyor system shall be utilized for additional requirement of slag from the steel plant. Slag which is waste for ISPAT industries is utilized here as raw material for cement production
- Gypsum is proposed to be sourced from Gujarat, Maharashtra and Rajasthan. Gypsum shall be transported by ship & trucks.

Mitigation Measures**Air Environment:****Impacts**

- The grinding operations will generate suspended particulate matter (SPM)
- Fugitive emission from storage and handling of raw material.
- Movement of vehicles.

Mitigation Measures-

- Bag House for Cement Mill system and Bag Filters for dedusting of storages, transfer points etc will be provided
- Water Sprinkling for Dust Suppression
- Green belt around the plant boundary and raw material storage area

Noise Environment:**Impacts-**

- Increase in Noise level due to various construction equipment, vehicular movement and operation of various equipment /machineries in the cement grinding unit.
- Impact on workers working in high noise area

Mitigation Measures-

- Equipments will be selected to meet statutory noise standards
- Development of Green belt around plant
- Exposure to high noise level would be restricted as per the exposure period specified in factories act (Job rotation, use of ear plugs & other PPE where necessary)
- Acoustic enclosures will be provided where required

Water Environment:

Impacts-

- Degradation of water quality due to accidental disposal of untreated effluent from construction labour camps
- Impact on water quality due to runoff carrying high
- Suspended solids from construction sites.

Mitigation Measures-

- Domestic sewage will be treated in the phytoreed treatment plant and recycled to the extent possible.
- Treated effluent will be used for gardening and dust suppression.

Rain water Harvesting:

Rooftop rainwater and surface runoff water will be diverted to storm water drains fro ground water recharge through recharge pits of 2 x 2m size are proposed

Land Environment

Impacts-

- Change in land use pattern
- Disturbance at site due to various site preparatory activities

Mitigation Measures-

- Landscaping and proper design
- Tree Plantation as per MoEF guidelines to minimize the soil erosion
- The manufacturing process of this plant comprises of grinding of clinker with gypsum and slag. This involves the use of slag as are source; otherwise slag disposal has numerous problems.
- Slag is utilized as raw material for cement production.

Ecology:

Impact-

- Increased human activities
- Impact on vegetation due to SPM and SO₂ emission.
- Fugitive Emission from plant

Mitigation Measure-

- Development of green belt.
- Tree plantation will be done in consultation with forest department
- Operation of pollution control equipments as per the norms



Green Belt Development

- Green Belt area: 3.15 ha
- Total Trees in our premises is 1676 Nos.
- Proposal is to increase the tree cover to 2200 trees in the coming three years

Social Benefits:

- The company shall earmarks funds for social development and welfare measures in the surrounding villages like education and health facilities.
- Repair and improvement of existing schools
- Repair and improvement of health centers
- Repair and improvement of community centers, building such as panchayat halls, baratghars etc.
- Awareness programs
- Women and child development programs
- Medical camps
- Competitions and prizes
- Drinking water availability efforts
- Rainwater harvesting measures

Environmental Budget:

Description	Cost in lacs
Stack & Equipment for protection of Air environment	840.0
Green belt development	1.3
Environmental Monitoring	0.9
Other (shed for clinker/gypsum storage)	540.0
Total cost	1382.2

3. The proposal has been considered by SEIAA in its 35th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :
- (i) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site. MPCB should verify SO₂ emissions modeling submitted by project proponent as recommended by SEAC.
 - (ii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
 - (iii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
 - (iv) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
 - (v) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
 - (vi) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
 - (vii) Arrangement shall be made that waste water and storm water do not get mixed.

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- (viii) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (ix) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (x) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xi) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xii) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xiii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xiv) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xv) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xvi) The company shall undertake following Waste Minimization Measures :
- (xvii) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xviii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xix) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xx) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxi) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envis.maharashtra.gov.in>
- (xxiii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department. on 1st June & 1st December of each calendar year.
- (xxiv) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.



- (xxv) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxvi) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxvii) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- (xxviii) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
1. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
2. Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.


(Valsa R Nair Singh)
Secretary, Environment
department & MS, SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
3. The Secretary, Energy department, Govt. of Maharashtra, Mantralaya, Mumbai - 400032., Maharashtra
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016), (MP).
6. Regional Office, MPCB, Raigad.
7. Collector, Raigad.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Director(TC-1), Dy. Secretary(TC-2),Scientist-1,Environment department
10. Select file (TC-3).