

Government of Maharashtra

SEAC2011/CR- 94/TC2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Dated: 18th May, 2013

To,
M/s. Zuari Cement Ltd.
No. 1 10th Main Jeevanbhima Nagar,
Bangalore- 5600 075

Subject: Environmental clearance for Proposed Grinding Unit (0.95MTPA) at village Auj and Shingadangaon, Tal. South Solapur, Dist. Solapur by M/s Zuari Cement- Environmental clearance regarding.

Sir,

This has reference to your communication 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 59th & 70th meetings 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 60th Meeting.

2. It is noted that the proposal is for grant of Environmental Clearance for proposed Grinding Unit (0.95MTPA) at village Auj and Shingadangaon, Tal. South Solapur, Dist. Solapur. SEAC considered the project under screening category 3(b) B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Cement Grinding Unit (0.95 MTPA)
Project Proponent	M/s. Zuari Cement Ltd.,
Consultant	M/s. Ambiente Lab Solutions Private Limited,
Type of project	Sl. No. 3 (b) Category 'B1' (<1 MTPA capacity) Stand Alone Grinding Unit
Total plot Area: Built up Area : Notified Industrial Area/Estate:	Total Extent : 50.54 Ha Land Use Area, Ha Building Area 11.00 Roads and paved area 5.00 Green belt Area 16.68 Truck Parking 5.00 Railway Siding 8.00 Vacant Area 4.86 Total 50.54
Estimated cost of the project : (PI quote estimation clearly specifying cost for land,	Project Cost in Rs. Crores : Land Cost : 30.00 Building : 100.00



building, plant and machinery separately)	Plant & Machinery : 470,00 ----- Total : 600,00 (in phases)																																						
Location details of the project	Site falls in Survey of India Topo Sheet No. 56 C/2 <table border="1" data-bbox="699 416 1203 613"> <thead> <tr> <th>Site Corner</th> <th>North Latitude</th> <th>East Longitude</th> </tr> </thead> <tbody> <tr> <td>Northeast</td> <td>17°32'28"</td> <td>76°02'04"</td> </tr> <tr> <td>Southeast</td> <td>17°31'56"</td> <td>76°02'00"</td> </tr> <tr> <td>Southwest</td> <td>17°32'04"</td> <td>76°01'47"</td> </tr> <tr> <td>Northwest</td> <td>17°32'29"</td> <td>76°02'03"</td> </tr> </tbody> </table> <p>Site is located in the elevation range of 460-470 m aMSL. Gentle terrain. Soil is medium to deep black and of rich quality. The Maximum and Minimum, average ground water level for the past 5 years are 4.5 and 10.6 m respectively.</p>	Site Corner	North Latitude	East Longitude	Northeast	17°32'28"	76°02'04"	Southeast	17°31'56"	76°02'00"	Southwest	17°32'04"	76°01'47"	Northwest	17°32'29"	76°02'03"																							
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Distance from Protected Areas / Critically Polluted areas / Ecosensitive areas / InterState boundaries	Eco sensitive Area : Maldhok Sanctuary is located at a distance of 35 km in the northwest from the site. Inter-State Boundary : The nearest State Boundary (with Karnataka) is at 20 km in south and east.																																						
Water Conservation . Rain Water Harvesting (RWH): (All details like recharge pits, storage tank capacity etc) II. Water supply/Total water required: Source: - River/Groundwater/ Industrial Area (if groundwater, commitment letter to be obtained from Central/State Ground water authorities) Quantity of recycled water: (in l/day) Total Water Requirement: (i) Process : (ii) Cooling water : (iii) DM Water (iv) Dust Suppression (v) Drinking (vi) Green belt : (vii) Fire service (viii) Others	<table border="1" data-bbox="646 913 1244 1464"> <thead> <tr> <th colspan="3">RWH-Abstract</th> </tr> </thead> <tbody> <tr> <td>Pond size 25X15X2.0 m- 4Nos (3000 CUM)</td> <td>CUM</td> <td>3000</td> </tr> <tr> <td>Water stored in the Pond</td> <td>CUM/Year</td> <td>24077</td> </tr> <tr> <td>Quantity of water added to the ground water reservoir</td> <td>CUM/Year</td> <td>13921</td> </tr> <tr> <td>Water available in the pond after evaporation and infiltration</td> <td>CUM/Year</td> <td>3480</td> </tr> <tr> <td>Total Harvested Quantity of Rainwater (Storage Pond)</td> <td>CUM/Year</td> <td>17401</td> </tr> <tr> <td>Rainwater harvested through Roof Top collection</td> <td>CUM/Year</td> <td>21775</td> </tr> <tr> <td>Total Rainwater harvested in the Project Site</td> <td>CUM/Year</td> <td>39176</td> </tr> <tr> <td>Annual Requirement of water (Ground water Sources)</td> <td>CUM/Year</td> <td>36500</td> </tr> <tr> <td>Percentage of water extracted from the harvested water</td> <td>%age</td> <td>100</td> </tr> </tbody> </table> <p>The total water demand would be 100 KLD. The required water will be tapped from nearby Hotgi Reservoir on obtaining State Authorities permission. Alternatively, Ground Water will be tapped. Solapur South Block falls in Safe Area Category (CGWB).</p> <table border="1" data-bbox="724 1639 1179 1818"> <thead> <tr> <th>Water demand for</th> <th>Total Water Demand, KLD</th> </tr> </thead> <tbody> <tr> <td>Equipment Cooling</td> <td>60</td> </tr> <tr> <td>Domestic Use</td> <td>10</td> </tr> <tr> <td>Dust</td> <td>5</td> </tr> </tbody> </table>	RWH-Abstract			Pond size 25X15X2.0 m- 4Nos (3000 CUM)	CUM	3000	Water stored in the Pond	CUM/Year	24077	Quantity of water added to the ground water reservoir	CUM/Year	13921	Water available in the pond after evaporation and infiltration	CUM/Year	3480	Total Harvested Quantity of Rainwater (Storage Pond)	CUM/Year	17401	Rainwater harvested through Roof Top collection	CUM/Year	21775	Total Rainwater harvested in the Project Site	CUM/Year	39176	Annual Requirement of water (Ground water Sources)	CUM/Year	36500	Percentage of water extracted from the harvested water	%age	100	Water demand for	Total Water Demand, KLD	Equipment Cooling	60	Domestic Use	10	Dust	5
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		Suppression	
		Green Belt	25
		Total	100
Sewage and Waste Water Treatment	There is no wastewater generation from the Process. Domestic sewage to the tune of 9 KLD is generated now which is biologically treated in a septic Tank followed by a Dispersion Trench.		
Solid waste Management:	The dust collected from the various Air Pollution Control Measures like Bag Filters, etc. is totally recycled in the process for cement manufacturing. Thus, no solid waste is envisaged from the process. No Municipal Solid Wastes. Inorganic wastes (papers & other wastes) will be sold to scrap dealers.		
Green Belt Development Area in Sq. m	An effective Green Belt will be developed in an area of 16.68 Ha (33 % coverage). Existing : There are 22 small trees near the boundaries of the site which will be maintained as such. In the first year, total number of trees to be planted is about 1560 in addition to 96 avenue trees along the roads. After that, trees will be planted @ 1,000 trees/Ha per annum in the earmarked areas and maintained.		
Details of Fuel used: Source of Fuel : Mode of Transportation of fuel to site	HSD (50 KL Tank; for Standby DG Sets, Locomotives, etc.) : 5.0 KLD Local Market Trucks		
Energy	DG set : 2 MW x 2 (standby, only for emergency backup)		
Environmental Management plan Budgetary Allocation	Project Cost is Rs.600.00 crores. A budgetary allotment of Rs.3.00 crores has been made as Capital Cost for Pollution Control Measures and Rs.5.00 lakhs per annum towards Operating Cost. An amount of Rs.3.00 lakhs per annum has been earmarked for Occupational Health measures. CSR budget will be about Rs.2 MINR per annum.		

3. The proposal has been considered by SEIAA in its 60th 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) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (ii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (iii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iv) 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.
- (v) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
 - (vi) Proper Housekeeping programmes shall be implemented.
 - (vii) In the event of the 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.
 - (viii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable)
 - (ix) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
 - (x) Arrangement shall be made that effluent and storm water does not get mixed.
 - (xi) 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.
 - (xii) 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.
 - (xiii) The overall noise levels in and around the plant area 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
 - (xiv) 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.
 - (xv) 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.
 - (xvi) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
 - (xvii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
 - (xviii) 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 collection/treatment/storage/disposal of hazardous wastes.
 - (xix) The company shall undertake following Waste Minimization Measures :
 - Metering of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
 - (xx) 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.
 - (xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
 - (xxii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
 - (xxiii) Separate silos will be provided for collecting and storing bottom ash and fly ash.



- (xxiv) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-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
- (xxv) 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://ec.maharashtra.gov.in>
- (xxvi) 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.
- (xxvii) 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.
- (xxviii) 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, NOx (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.
- (xxix) 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.
- (xxx) 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.
- (xxxi) 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 environmental clearance is being issued without prejudice to the action initiated under EP Act or any 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 under EP Act or 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, if any or action initiated under EP Act.
5. 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.



6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
7. 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.
8. 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.
9. Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Delhi - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010



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

Copy to:

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Jugnu' Kattaram Road, Calicut- 673 006 Kerala.
2. Shri. Dr. S. Devotta, Chairman, SEAC, T2/302 Sky City, Vanagaram -Ambattur Road, Chennai - 600 095
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. 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).
5. Regional Office, MPCB, Solapur.
6. Collector, Solapur.
7. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
8. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment department.
9. Select file (TC-3).