



## STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, (SEIAA), ORISSA.

(Constituted vide order No. S.O. 2674 (E) Date 17<sup>th</sup> Nov. 2008 of Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.) Qr. No. 5RF-2/1, Unit-IX, Bhubaneswar-751022  
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Ref. No. \_\_\_\_\_

Dt. \_\_\_\_\_

**SEIAA – 88/11**

From

Bhagirathi Behera, IFS  
Director, Environment-cum-  
Spl. Secretary to Government  
& Member Secretary, SEIAA, Orissa

To

Mr. D.D Atal,  
Executive Director (Cement)  
M/s OCL India Ltd.  
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Sub: Environmental Clearance for expansion of cement grinding unit from 0.9 MTPA to 2.7 MTPA and 27 MW. CPP of OCL India Ltd. at Biswali, Tangi in the district of Cuttack.

Sir,

This has reference to your letter no. KCW/MOEF/05 dated 15.02.2010 along with application for Terms of Reference (ToR) and subsequent letter no. nil dated 10.06.2011, no. KCW:MOEF:9 dated 08.08.2011 and no KCWW-EC-COM-01 dated 19.09.2011 on the above mentioned subject I am directed to say that the State Environment Impact Assessment Authority, Orissa have considered the application for the proposal for enhance the Cement grinding capacity of Kapilas Cement Works from existing 0.9 MTPA to 2.7 MTPA and 27 MW CPP in existing Grinding Unit at village Biswali, Po: Barunia, Dist- Cuttack, Orissa. The Committee had issued ToR for the expansion proposal dated 21.7.2010. The unit is having one no. of Cement Vertical Roller Mill (CVRM-1) of capacity 0.9 MTPA. It has proposed two nos. of CVRM for enhancement of capacity upto 2.7 MTPA i.e. (CVRM-I to be modified to 1.35 MTPA capacity and CVRM-II of capacity 1.35 MTPA to be installed). Source of raw material such as clinker from own plant at Rajgangpur slag from Neelachal, Jindal, MESCO located in Jajpur & Bhusan steel at Angul, Fly ash from own CPP and nearby power plants and Gypsum from IFFCO, Paradeep. No additional land will be required for expansion proposal. Expansion will be inside the existing plant premises of 336.05 Acres. Water

requirement for expansion of cement grinding unit is 900 m<sup>3</sup>/day and source of water Birupa river, from rain water harvesting and domestic use from ground water. Total project cost for expansion of cement grinding unit is Rs. 175.7 crores. The unit has proposed 27 MW CPP to meet their power demand. The unit has proposed to install 1X120 TPH or 2X60 TPH CFBC boiler for CPP. Source of fuel i.e. raw-material coal from MCL. Total water requirement for CPP 1200 m<sup>3</sup>/day source of water will be Birupa river, rain water harvesting and domestic use from ground water. The total project cost of CPP is 119.53 crores. The unit has proposed to drawal 1500 m<sup>3</sup>/day of water from Birupa river and water allocation committee recommended in its 55<sup>th</sup> meeting held on 27.05.2010 for allocation of same. About 496 m<sup>3</sup>/day will be met from rain water harvesting and balance 104 m<sup>3</sup>/day will be sourced from CGWA for which NOC obtained from CGWA. The project area is coming under Jajpur and Cuttack district and public hearing was conducted on 06.01.2011 in Jajpur and on 07.01.2011 in Cuttack district. The proposal was first placed in the SEAC meeting held on 10<sup>th</sup> & 11<sup>th</sup> August 2011. Based on the information furnished and presentation made by the consultant M/s S.S Envirionics Patrapada Bhubaneswar, the committee opined that E.C will be considered after receipt of certain clarification and document from the proponent. The proponent furnished the compliance to the observation of SEAC. The committee verified the same.

Based on the information / documents and clarifications furnished by the proponent and on recommendation of SEAC, Orissa, the State Environment Impact Assessment Authority, Orissa hereby accords Environmental Clearance in favour of the project for a period of 5 (five) years under the provisions of the Environment Impact Assessment Notification, 2006 and 2009 and subsequent amendment thereto under various MoEF, Govt. of India circulars thereunder and subject to the following stipulated conditions.

**Stipulated Conditions:-**

1. Applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by him in Form-1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
2. The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc. after a detailed primary socio-economic survey.
3. The applicant will comply to the points, concerns and issues raised by the people during public hearing conducted on 06.01.2011 and 07.01.2011 in accordance with the commitments made by him thereon.
4. The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.
5. For post environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.

6. Bag filter will be provided to ball mill to control particulate emissions within 50 mg/Nm<sup>3</sup>. Dust emissions will be mitigated by water spraying on the roads within the plant premises.
7. Dust from cement grinding unit collected in pollution control equipments will be recycled back to the process. Waste/used/spent oil and used batteries will be sold to authorized recyclers/re-processors.
8. Particulate emissions shall be controlled within 50 mg/Nm<sup>3</sup> by installing adequate air pollution control system viz. bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry, Orissa State Pollution Control Board and CPCB regularly.
9. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16<sup>th</sup> November, 2009 should be followed.
10. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.
11. Asphaltting/concreting of roads and water spray all around the stock yard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the central pollution control Board in this regard.
12. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials should be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.
13. Total water requirement from bore wells shall not exceed 104m<sup>3</sup>/day. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater should be recycled and reused in the process and/ or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and zero discharge should be adopted.
14. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / re-processors.
15. High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup>.

16. Excess water along with storm water during monsoon should not be discharge into the surrounding low lying area. The storm water during monsoon will be collected in a pond and after appropriate treatment shall be stored in a reservoir for use in plantation, dust suppression etc.
17. Under no circumstances the process water shall be discharged to nearby water body. It should be properly treated, stored and 100% recycled in the process.
18. The proponent shall obtain permission from Water Resources Department, Govt. of Orissa for drawl of water.
19. No ground water shall be extracted for the project work at any stage.
20. The technical specification of AFBC system, lime requirement along with point of injection into the bed, peak temperature of combustion, SO<sub>2</sub> and NO<sub>x</sub> emission potential etc. from the manufacturer to ensure the pollution potential (both qualitative and quantitative) of the proposed project with respect to bed ash, fly ash, effluents, emissions etc. to be submitted to SEIAA before commissioning of the plant.
21. The proponent shall treat the flue gas through Flue Gas De- sulfurisation (FGD), if SO<sub>2</sub> emission level exceeds the prescribed norm.
22. Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
23. Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured as per fly ash notification of MoEF, Govt. of India. Unutilized fly ash and bottom ash shall be stored in the ash pond separately through high concentration slurry disposal method. Mercury levels along with other heavy metals (Pb, Cr, As etc.) should be monitored in the fly ash / bottom ash, leachates and effluents emanating from the ash pond.
24. Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
25. The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.
26. A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/ plantation.
27. The project proponent shall undertake proactive water harvesting measures and water storage for a larger period not less than 30 days storage shall be developed. The rain water harvesting system shall be put in place before commissioning of the plant. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the SEIAA within six months.
28. Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Details of these

- measures to be taken along with location plant layout shall be submitted to the SEIAA, Orissa.
29. Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area where risk is minimum. On site and off site Disaster Management Plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the Disaster Management Plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.
  30. Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA, Orissa.
  31. A green belt of adequate width and density preferably with local species along the periphery of the plant & alongside roads etc shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green cover. The project proponent shall ensure proper maintenance of green belt throughout the year & for this purpose they may engaged professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared accordingly and submitted to the SEIAA, Orissa.
  32. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
  33. Noise levels emanating from turbines and air compressors shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipments like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/ less noisy areas.
  34. Regular monitoring of ground level concentration of SO<sup>2</sup>, NO<sub>x</sub>, RSPM (PM<sub>10</sub> & PM<sub>2.5</sub>) etc. shall be carried out in the impact zone and records to be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB, Orissa.
  35. Management and disposal of other solid waste and hazardous waste generated shall be done by the project proponent as per the provisions of the relevant statutory rules.
  36. Provision shall be made for housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
  37. An Environmental Cell comprising of atleast one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.

38. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities (SEIAA, Orissa).
39. Separate funds shall be allocated for implementation of environmental protection measures 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 be reported.
40. The need of the local people should be appropriately addressed in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA, Orissa.
41. The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board and SEIAA.
42. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
43. The environment statement for each financial year ending 31<sup>st</sup> 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
44. The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract penal action under the provisions of Environment Protection (EP) Act, 1986.

**Member Secretary**

Memo No \_\_\_\_\_/Dt. \_\_\_\_\_

Copy to

1. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, C.G.O Complex, Lodhi Road, New Delhi for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Orissa for kind information.
3. Chairman, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for kind information.

5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Collector & District Magistrate, Cuttack for kind information and necessary action.
7. Chairman/Member/Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.

**Member Secretary**