



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

(Constituted vide order No. S.O. 2674 (E) Date 17th 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 – 128/10

From

Bhagirathi Behera, IFS
Director, Environmen-cum-
Special Secretary to Govt.
& Member Secretary, SEIAA

To

M/s. OCL India Ltd.
Rajgangpur
Dist. Sundargarh

Sub: Environmental Clearance for 2x27 MW captive power plant of OCL India Ltd. at Rajgangpur in the district of Sundargarh, Orissa.

Sir,

This has reference to the letter no. nil dated 07.01.2008 along with application for Terms of Reference (TOR) and subsequent letter 28.02.2008, 09.04.2010, 11.06.10, 24.06.10, 03.08.10 and 22.09.2010 on the above mentioned subject. The State EIA Authority, Orissa have considered the application in favour of the projects.

M/s OCL India Ltd. is operating with 2.9 MTPA cement plant and 4.0 MTPA clinker plant. The proposal is for 2X27 MW power plant to meet the captive requirement for the above cement plant. Originally the proposal was submitted for "2X27 MW CPP & 200 TPH Coal Beneficiation Plant" at MOEF, Delhi with duly filled in Form-1 & pre-feasibility report vide letter no. RGCF:86207 / 2, dated 6th December 2007. TOR presentation held on 13th March 2008 before Expert Appraisal Committee (EAC) of Thermal Power & Coal Mine projects of MOEF, TOR issued vide letter no. J-13012/27/2008-IA.II(T) dated 15th April 2008. Public Hearing Conducted on 29th May 2009 at Gopabandhu High School, Rajgangpur. The public Hearing findings are very much satisfactory. EC presentation held on 11th January 2010 in 62nd meeting of EAC of Thermal Power & Coal Mine projects of MOEF. Subsequently the proposal was reconsidered in the 65th meeting of EAC of thermal power and coal mine projects of MOEF. Subsequently the proposal was reconsidered in the 65th meeting of EAC of thermal power and coal mine projects held during February 12-13, 2010. During this reconsideration, EAC of thermal power and coal mine projects

of MOEF decided to return the file (2X27 MW Captive Power Plant only) to State Level Environmental Impact Assessment Authority (SEIAA) for appraisal as it is a 'B' category project (<500MW) and coal washery to go separately to the coal sector (as applicable). EAC also informed that the TORs issued and the public hearing conducted by the project proponent however may remain valid. Accordingly, such decision of EAC in form of "Minutes of Meeting" was circulated in the MOEF website on 26th February 2010. OCL has withdrawn 200 TPH coal beneficiation proposal from MOEF, Delhi vide letter no nil dated 9th April 2010 because of delay in allotment of Coal Block in favour of OCL and subsequently searching for a better and environment friendly technology for establishment of coal washery in future at pit head. MOEF forwarded the file of "2X27 MW CPP" to SEIAA for onward appraisal for Environmental Clearance vide letter no J-13012/27/08-IA-II(T). The proposal of 2X27 MW CPP was presented before the SEAC on 19th & 20th July, 2010 by their full time Director with the help of their supporting Managers and representative of consultants of M/s S.S Environics (India) Pvt. Ltd. Patrapada Bhubaneswar. The committee decided to consider environmental clearance for the proposal after getting certain information/ document from the project proponent. The project proponent furnished the desired information/document.

Based on the information, document and clarification provided and on the recommendation of the SEAC, the State EIA Authority, Orissa hereby accords for grant of 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 amendments thereto under various MOEF, Government of India circulars thereunder and subject. The following stipulated conditions.

STIPULATED CONDITIONS:-

- i) The 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.
- ii) 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 of the core zone.
- iii) The applicant will comply to the points, concerns and issues raised by the people during public hearing on 29th May 2009 in accordance with the commitments made by him thereon.
- iv) The applicant will take statutory clearance /approval /permissions from the concerned authorities in respect of his project as and when required.
- v) 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 1st June and 1st December of each calendar year.

- vi) High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.
- vii) The proponent may use bottom ash as a supplement for the raw material for cement production with approved technology confirming to the relevant standard specification.
- viii) The unit shall be allowed to use washery rejects as raw material having $\leq 60\%$ ash content.
- ix) The proponent shall treat the flue gas through Flue Gas De-sulfurisation (FGD), if SO₂ emission level exceed the prescribed norm.
- x) No ground water shall be extracted for the project work at any stage.
- xi) Adequate dust extraction system such as cyclones / bag filters and water spray system in dust areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- xii) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilized 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.
- xiii) The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.
- xiv) 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.
- xv) A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt / plantation.
- xvi) Rainwater harvesting should be adopted. Central Groundwater Authority /Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished to the SEIAA, Orissa.
- xvii) 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.
- xviii) 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%.

- xix) Regular monitoring of ground water in and around the ash pond shall be carried out, records maintained and half yearly reports shall be furnished to the SEIAA, Orissa.
- xx) 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 engage 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.
- xxi) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- xxii) 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.
- xxiii) Regular monitoring of ground level concentration of SO₂, NO_x, RSPM (PM₁₀ & PM_{2.5}) etc. shall be carried out in the impact zone and records 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.
- xxiv) 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.
- xxv) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- xxvi) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.
- xxvii) 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.
- xxviii) 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.
- xxix) 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 action under the provisions of Environmental 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-110003 for kind information.
2. Principal Secretary to Govt., Forests & Environment Dept. Orissa for kind information.
3. Chairman, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, BBSR for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Government of India, Chandra Sekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi, 110032 for kind information.
6. The District Collector & Magistrate, Sundargarh for kind information and necessary action.
7. Copy forwarded to the Chairman/ Member Secy. / Member, 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 records.

Member Secretary