



**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 – 65/10**

From

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

To

Sri S.K. Jain  
M/s. Emami Paper Mills Limited  
At. Balgopalpur  
Dist. Balasore-20.

Sub: Environmental Clearance for 26 MW captive Thermal Power Plant inside the existing waste paper based paper mill of M/s. Emami Paper mills at Balgopalpur in the district of Balasore.

Sir,

This has reference to letter no. EMPL/SEAC/01 dtd. 09.06.09 along with application for Terms of Reference (TOR) and subsequent application vide letter no. EMPL/SEAC/03 dtd. 11.08.09, dtd. 16.07.10, dtd. 28.08.10 and dtd. 04.10.10 for Environmental Clearance on the above mentioned subject. The SEIAA has considered the application.

M/s Emami Paper Mill Ltd. is a waste paper based paper mill manufacturing printing writing (P & W) paper. The industry has existing captive power plant of capacity 20 MW (1X15MW+1X5 MW). It has proposed for installation of another 26 MW captive power plant within the existing premises of the paper mill for captive use of existing paper mill as well as for future expansion of the mill coal requirement for the project is 600 TPD. The industry is located within the IDCO industrial area. The TOR issued by SEAC vide latter no. 116 dated 29.09.09. Public hearing for the proposal is not required as the captive power plant will be installed within the IDCO industrial estate. Representative of M/s Min Mec consultants, New Delhi presented the final EIA/EMP report in the SEAC meeting held on 19<sup>th</sup> & 20<sup>th</sup> July, 10. The committee decided to consider the proposal after receipt of certain information/ documents from the proponent. The committee also decided to go for visit of the existing paper mill at Balgopalpur, Balasore to verify the present environmental practice of existing unit before taking a decision on the proposal. The committee visited the existing paper mill on 31<sup>st</sup> July. 2010 and

observation of the committee was forwarded to the proponent for compliance. The proponent furnished the desired information as sought for by the SEAC.

Based on the information, documents and clarifications provided and on the recommendation of the SEAC the State EIA Authority 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 to 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 core zone.
- iii) The applicant will take statutory clearance / approval /permissions from the concerned authorities in respect of his project as and when required.
- iv) 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.
- v) High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup>.
- vi) The proponent shall treat the flue gas through Flue Gas De-sulfurisation (FGD), if SO<sub>2</sub> emission level exceeds the prescribed norm.
- vii) The ETP sludge which is used as fuel in the boiler contains heavy metals such as Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Sulfur etc. Stack analysis of the heavy metals must be done periodically and reported to SPCB, Orissa.
- viii) No ground water shall be extracted for the project work at any stage.
- ix) 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 area shall be provided.
- x) 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 Government 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.

- xi) The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.
- xii) 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.
- xiii) A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/ plantation.
- xiv) 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 detail shall be furnished to the SEIAA, Orissa.
- xv) 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.
- xvi) 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%.
- xvii) 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.
- xviii) 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.
- xix) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- xx) 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 area 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.
- xxi) Regular monitoring of ground level concentration of SO<sub>2</sub>, 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 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.

- xxii) 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.
- xxiii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- xxiv) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.
- xxv) 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.
- xxvi) The need of the local people should be appropriately addressed in the CSR activities to be undertaken in the area. An action plan in this regard should be prepared and submitted.
- xxvii) 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 Environment (Protection) Act, 1986.

**Member Secretary**

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

Copy to

1. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, CGO 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, Parivesh 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, Chandrasekharapur, 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, Balasore 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,**