

F. No. J-11011/48/2012-IA-II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

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Dated 26th September, 2012

To

M/s Thakur Prasad Sao & Sons Pvt. Limited
Avani Signature, 91a/1
Park Street, 2nd Floor
Kolkata - 700 016

Ph: 033- 40071632; Fax: 033- 4007162; E-mail: panjiyar_s@yahoo.co.in

Sub: Expansion and Modification of existing Integrated Steel plant by installation of 2x0.6 MTPA Iron Ore Pelletization plant and deletion of MBF & 1X25 T EAF at Village Lahandabud, P.O. H. Kantapali, Block / Tehsil / District - Jharsuguda in Odisha by **M/s Thakur Prasad Sao & Sons Pvt. Limited - Unit IV (formerly Eastern Steels and Power Ltd.) - regarding Environmental Clearance**

This has reference to your letter No. TPSP/BBSR/Unit-IV(Prj)/2011-12/046 dated and subsequent communication dated 14.05.2012 along with EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted M/s Thakur Prasad Sao & Sons Pvt. Limited - Unit IV (formerly Eastern Steels and Power Ltd.) have proposed for Expansion and Modification of existing Integrated Steel plant by installation of 2x0.6 MTPA Iron Ore Pelletization plant and deletion of MBF & 1X25 T EAF at Village Lahandabud, P.O. H. Kantapali, Block / Tehsil / District - Jharsuguda in Odisha. The proposed expansion will be in an area of 28.5 acres within the existing plant premises of 178 acres. No additional land is required for the proposed expansion. Green belt will be developed in 59 acres of area. No national park/wildlife sanctuary/biosphere reserve exists within 10 Km radius of the project site. Iron Ore will be sourced from Joda-Barbil area of Keonjhar area of Sundergarh District. Bentonite and Furnace Oil will be sourced from local market. Anthracite Coal will be either imported or sourced from Indian Coal fields. Total project cost is Rs.379.56 crore and capital cost of Rs.18.5 crore is estimated for environmental protection measures

3. The following are the details of existing and proposed expansion facilities & products:

Sl. No.	Existing Plant under Operation	Expansion
1	1x350 TPD DRI (1, 10,000 TPA)	-
2	12MW CPP (8 MW WHRB + 4MW AFBC Boiler)	-
3	4x8 T/heat IF	-
4	150 TPH Coal Washery (5,76,000 TPA Coal fines)	-
5	Rolling Mill (1,00,000 TPA)	-
6	-	2x0.6 MTPA Iron Ore Pelletization Plant

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4. It is noted that fresh make up water requirement for the proposed expansion project will be 85 m³/hr, which will be sourced from Ib River from the existing water drawl permission. Rain water harvesting will be carried out to partly meet plant water requirement & for ground water recharge. Power requirement of 10 MW will be met from captive power plant & partly from State Grid.

5. Water sprinklers will be installed for raw material handling and material transfer to control the fugitive emissions. ESP for Indurating furnace and Pulse Jet Bag Filter for Indurating Machine Feeding end & discharging end, Kiln & Cooler to control particulate emissions will be provided for air pollution control. No wastewater will be generated from the process. Sewage (0.8 m³/hr) generated from the plant will be treated in STP for further use in plantation and dust suppression. There is no solid waste generation from the process of Pelletization as the rejects from intermediary process steps will be recycled back in process. Dust Collected from ESPs at Indurating Furnace & Bag filter at proportioning building will be recycled to pellet mixture, Broken pellets will be recycled through grinding plant. STP Sludge (30 Kg/day) will be used as manure for plantation and Municipal Solid Waste (26 kg/day) will be vermicomposted to use as manure for plantation.

6. Pelletization being a primary metallurgical process is listed at Sl. No. 3 (a) under category 'A' of the schedule of EIA Notification, 2006 and has been appraised by the Expert Appraisal Committee (Industry-1) in the Ministry.

7. The proposal was considered by the Expert Appraisal Committee during the meetig held during 24th - 25th May, 2012 The Committee recommended the proposal for environmental clearance with the specific and general conditions.

8. Based on the information submitted by you, presentation made by you and consultant, M/s S Envirionics (India) Pvt. Ltd., Bhubaneswar, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS

- i. Compliance to all the specific and general conditions stipulated in the environmental clearance for the existing plant should be ensured and regular reports submitted to the Ministry's Regional Office at Bhubaneswar.
- ii. Measures shall be taken to mitigate PM levels in the ambient air and a time bound action plan should be submitted. Continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. should be provided to keep the emission levels below 50 mg/Nm³ and installing energy efficient technology. No charcoal should be used as raw material.
- iii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- iv. Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 should be followed.
- v. Vehicular pollution due to transportation of raw material and finished product should be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product.

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- vi. The water requirement shall not exceed 85 m³/hr. 'Zero' effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.
- vii. Efforts should be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.
- viii. Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.
- ix. Proper handling, storage, utilization and disposal of all the solid waste should be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.
- x. A Disaster Management Plan should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xi. As proposed, green belt should be developed in at least 33 % of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xii. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.
- xiii. The company shall provide housing for construction labour 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.
- xiv. The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.

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- iv. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM₁₀, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body 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 web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance 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 the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. 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

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Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.

- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.
 - xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
8. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 9. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 10. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(A.N. Singh)
Dy. Director (S)

Copy to:-

1. The Secretary, State Department of Environment, Government of Orissa, Bhubaneswar, Orissa.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Orissa Pollution Control Board, Parivesh Bhavan, A/118, Neelkanthhanagar, Unit-8, Bhubaneswar - 751 012, Orissa.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File / Record File.


(A.N. Singh)
Dy. Director (S)