

F. No. J-11011/137/2006- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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7 MAR 2008

Dated 21<sup>st</sup> February, 2008

To, ✓  
M/s Electro Steel Integrated Ltd.  
19, CAMAC Steet, Kolkatta – 700 017  
West Bengal.

E-mail : [chokhani@nda.vsnl.net.in](mailto:chokhani@nda.vsnl.net.in) / [pr.bhotika@electrosteel.com](mailto:pr.bhotika@electrosteel.com) ;  
Fax No. : 033-22894340

Subject : Integrated Steel plant (3.0 MTPA) at Parbatpur, Jharkhand by M/s Electrosteel Integrated Ltd. – reg.

Sir,

This has reference to your letter no. nil dated 18<sup>th</sup> January, 2007 alongwith Form I, Prefeasibility Report, draft Terms of References and EIA/EMP and subsequent clarifications furnished by you vide your letters dated 5<sup>th</sup> May, 2007, 6<sup>th</sup> October, 2007, 16<sup>th</sup> August, 2007, 6<sup>th</sup>, 12<sup>th</sup>, 26<sup>th</sup> and 31<sup>st</sup> December, 2007 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that M/s Electro Steel Integrated Ltd. have proposed to set up an integrated Steel Plant (3.0 MTPA) at Parbatpur, Jharkhand. Total project area is 1,350 acres which is partly an agricultural land. No national park and wild life sanctuary is located within 10 km radius. No forest land is involved. Following will be manufactured :

S. N.	Name of units	Facility/Capacity	Production (MTPA)
1	Coke Oven Battery	Non-recovery type	1.60
2	Sinter Plant	2 x 70 & 1 x 200 M <sup>2</sup>	3.75
3	Blast Furnace	2 x 750 M <sup>2</sup> . 1 x 2000 M <sup>2</sup>	3.15
4	Steel Melting Shop	1 x 60 & 1 x 150 T BOF	2.75
5	Continuous casting	2 x 4 strand Billet Casters & 1 slab caster	2.68
6	Rolling Mills	Wire Rod Mill Bar Mill Flat Product Mill	0.4 0.7 1.5
7	Ductile Iron Pipe Plant	Ductile Iron Pipe	0.4
8	Other Plants	Captive Power Plant, Pellet Plant, Sponge Iron Plant, Oxygen Plant, Lime & Dolomite Kilns, DI Fittings & Rubber Gasket, Ferro Silicon Plant	-

3.0 Electrostatic precipitator (ESP) will be provided to waste heat recovery boiler (WHRB). Hot gases from DRI plant will be utilized in the WHRB. Bag filters and wet scrubbers will be provided to control air pollutants. Low NO<sub>x</sub> burners will be provided to control NO<sub>x</sub> levels. Total water requirement from Damodar River will be 86,016 m<sup>3</sup>/day. The Central Water Commission, DVRR Unit, Government of Jharkhand granted permission to drain 22.0 MGD of water from the river Damodar vide their letter no. MD/DVRR/W-6-116/2007/623-629 dated 10<sup>th</sup> July 2007. All the treated wastewater will be recycled and reused and 'zero' discharge will be adopted. Coke fines, scrap, flue dust from coke oven plant and BF; scales from SMS, quick lime and lime fines from lime plant and dolo fines from dolo plant will be used in Sinter plant. Casting rejection and runner from DI pipe plant will be remelted and reused. Char from DRI plant will be used in FBC power plant. Scrap from rolling mill and SMS will be used in BOF. BOF slag will be used for land filling within the premises. Fly ash/bottom ash from power plant will be provided to brick manufacturers.

4.0 Public hearing was held on 28<sup>th</sup> September, 2007. Total cost of the project is Rs. 5,000.00 Crores and Rs. 400.00 Crores are earmarked towards environmental pollution control measures.

5.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to strict compliance of the following specific and general conditions:

**A. SPECIFIC CONDITIONS :**

- i) Confirmation to the land oustees for acquisition of agriculture land shall be paid as per the State Government Norms and the norms prescribed in the National Resettlement and Rehabilitation Policy, 2007.
- ii) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup> and reports submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and Jharkhand SPCB (JSPCB).
- iii) Electrostatic precipitator (ESP) shall be provided to WHRB. Hot gases from DRI plant shall be utilized in the WHRB. Gas cleaning plant having dust catcher and bag filter shall be provided to blast furnace (BF). Low NO<sub>x</sub> burners shall be provided to control NO<sub>x</sub> levels. In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust extraction system shall be provided to control air emissions at material transfer and sizing plants. Further, specific measures like water sprinkling shall be carried out and fugitive emissions shall be controlled, regularly monitored and records maintained.
- iv) Gaseous emission levels including secondary fugitive emissions from the blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
- v) All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.

- vi) Total water requirement from River Damodar shall not exceed 86,016 m<sup>3</sup>/day. No ground water shall be used. Wastewater from process and domestic sources shall be treated. The treated wastewater shall be recycled and reused and 'Zero' effluent discharge shall be ensured. No wastewater shall be discharged outside the premises.
- vii) Continuous monitoring of Total Organic Compounds (TOC) shall be done at the outlet of ETP (BOD plant).
- viii) Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB.
- ix) Coke fines, scrap, flue dust from coke oven plant and BF; scales from SMS, quick lime and lime fines from lime plant and dolo fines from dolo plant shall be used in Sinter plant. Casting rejection and runner from DI pipe plant shall be remelted and reused. Scrap from rolling mill and SMS shall be used BOF. All the other solid wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste shall be provided to authorized recyclers/reprocessors.
- x) All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. SMS slag shall also be properly utilized. A time bound action plan should be submitted to reduce solid waste, its proper utilization and disposal.
- xi) Fly ash/bottom ash from power plant shall be provided to brick manufacturing plants. Bottom ash shall be disposed off in a suitably designed landfill as per CPCB guidelines to prevent leaching to the sub-soil and underground aquifer. Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 as amendment in 2003.
- xii) As proposed, green belt shall be developed in 33 % area within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- xiii) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel plants shall be implemented.
- xiv) Recommendations of the State Forest Department shall be obtained regarding likely impact of the proposed steel plant on the surrounding reserve/protected forests and implemented.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JSPCB) and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.

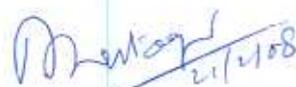
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> May, 1993 and standards prescribed from time to time. The state Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- 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 SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the Jharkhand SPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the Jharkhand SPCB/CPCB once in six months.
- v. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- vi. 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vii. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface as well as ground water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.
- ix. 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.
- x. As mentioned in the EIA/EMP, Rs. 400.00 Crores earmarked towards the environmental pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- xi. The Regional Office of this Ministry at Bhubaneswar / CPCB / Jharkhand SPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- xii. 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 JSPCB 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 shall be forwarded to the Regional office.

- xiii. 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.
- 5.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 6.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 7.0. 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 and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules

  
(Dr. P. B. Rastogi)  
Director

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. Chairman, Jharkhand Pollution Control Board, Jharkhand, Town Administrative Building, H.E.C., Dhruwa, Raanchi - 824004, Jharkhand.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
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7. Monitoring Cell
8. Guard File.
9. Record File.

  
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