

No.J.11011/158/2004-IA II(I)  
Government of India  
Ministry of Environment & Forests  
I.A.Division

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Paryavaran Bhavan, CGO Complex,  
Lodi Road, New Delhi-110003  
Dated the February 16, 2005

To

The Vice President  
M/s Aarti Steels Limited  
Steel and Power  
Plot no.11 /1B/41, Sector 11, CDA,  
Bidanasi, Cuttack- 753014

Sub: 0.5MTPA integrated steel plant and 50MW Captive power plant by M/s  
Aarti Steels Limited at Village Ghantikhal in district Cuttack in Orissa-  
environmental clearance reg.

Sir,

This has reference to your letter no. ASL/SP dated 04.09.2004 along with application, EIA /EMP reports and related project documents and subsequent clarifications furnished your letters dated 22<sup>nd</sup> October, 2004 and 3<sup>rd</sup> November, 2004 for environmental clearance on the above mentioned project. The Ministry of Environment and Forests has examined your application. It is noted that proposal involves 0.5 MTPA integrated steel plant and 50MW Captive power plant. it is also proposed to install a coal washery of 1.0MTPA capacity based on heavy media technology.

The land area of the project is 700 acres. The project does not involve diversion of forestland and displacement of people. Water requirement of 17316 m<sup>3</sup>/d would be met from the Mahanadi river. Permission to draw water from the State Water Resources Department has been obtained on 6<sup>th</sup> December, 2003. Public hearing of the project was held on 17.11.2003. The Orissa Pollution Control Board has granted NOC on 15.12.2003. Total cost of the project is Rs. 886.35 crores.

2.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27<sup>th</sup> January, 1994 as amended, subsequently subject to strict compliance of the following specific and general conditions:

Sl. No.  
Sub-Part, Section, etc.

A. SPECIFIC CONDITIONS

- i. The gaseous emissions from various process units should 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 should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. ✓ There should be no discharge of process effluent. As reflected in the EIA/EP report, the waste water generation of 456m<sup>3</sup>/d (384m<sup>3</sup>/d of process and 72m<sup>3</sup>/d of domestic effluent) from the various sources will be generated. The company shall achieve zero discharge by use of treated effluent in the process. The blow down from the cooling tower, coolers and RO plant shall be utilised for ash slurry after neutralization and overflow from ash slurry shall be recycled. There shall be no discharge of water from the coal washery and company shall adopt closed circuit system. The domestic waste water after treatment in STP should be used for green belt development.
- iii. In plant control measures for checking fugitive emission from spillage of raw materials handling should be provided. The project authorities shall ensure the control of secondary fugitive emissions from the electric arc furnace/induction furnace during charging of scrap and tapping by provision of canopy hood over the furnaces and undertaking engineering modifications as has been done in the existing unit at Ludhiana. Fugitive emissions from continuous casting of molten metal into various products shall be controlled by installation of adequate fume extraction system. Further specific measures like provision of dedusting system, bag filters, water spraying system to suppress the dust at transfer points shall be taken. Data on fugitive emissions should be regularly monitored and records maintained.
- iv. The company shall use the heat recovered from the DRI plant in waste heat recovery boilers. The particulate emissions from the DRI plant and waste heat recovery boiler shall be controlled by installation of ESP and particulate emissions shall not exceed 100mg/Nm<sup>3</sup>. Further, the company should install dust catchers and gas cleaning plant for blast furnace top gas for subsequent use in stove heating, re-heating furnace and ladle heating etc. The flue gas should be discharged through stack of appropriate height.

7.2.2.



- v. Pressure drop measuring system across the bag filters should be installed. Particulate matter emissions should be measured hourly besides continuous monitoring.
- vi. Proper acoustic enclosures should be installed to control noise load from the DG sets as per EPA standards.
- vii. Company should keep proper house keeping within the plant premises.
- viii. The company shall prepare time bound action plan for solid waste management and submit to the Ministry within three months.
- ix. A green belt shall be developed in an area of 100 ha. of plant area as per the CPCB guidelines.
- x. The company should undertake rainwater-harvesting measures to harvest the rain water for utilisation in the lean season as well as to recharge the ground water table.
- xi. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- xii. Recommendations made in the CREP should be implemented.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board 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. At least four ambient air quality-monitoring stations should 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 State Pollution Control Board. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the State Pollution Control Board/Central Pollution Control Board once in six months.

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Industrial waste water should be properly collected, treated and disposed to conform to the standards prescribed under GSR 422 (E) dated 13<sup>th</sup> May 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.

- v. The overall noise levels in and around the plant area should 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).

- vi. ✓ 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.

- vii. The project authorities shall earmark an amount of Rs. 40 crores (as indicated in question no. XIX (b) of the questionnaire submitted to the Ministry to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.

- viii. The Regional Office of this Ministry at Bhubaneswar/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.

- ix. The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should 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.

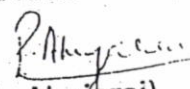
- x. The Project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.



3.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

4.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.

5.0. The above conditions will 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 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules

  
(Dr. P. L. Ahujarai)  
Addl. Director

Copy to:

1. The Secretary, Ministry of Petroleum and Natural Gas, Shastri Bhavan, New Delhi- 110011.
2. Chairman, Central Pollution Control Board, Paribesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. Chairman, Orissa Pollution Control Board, Paribesh Bhawan, A/118, Neelkanthanagar, Unit-8, Bhubaneshear-751012.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharapur, Bhubaneshwar - 751 023.
5. Secretary, State Department of Environment, Govt. of Orissa, Bhubaneshwar.
6. JS(CCI-I), Ministry of Environment and Forests.
7. Monitoring Cell, Ministry of Environment & Forests, New Delhi.
8. Guard file.
9. Record file.

(Dr. P. L. Ahujarai)  
Additional Director