

No. J-11011/196 /2005 - IA II (I)
Government of India
Ministry of Environment & Forests

E mail: plajujara@yahoo.com

Paryavaran Bhawan,
C.G.O. Complex, Lodi Road,
New Delhi - 110 003
Dated the August 11, 2005

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16/8/05

To
The Managing Director
M/s Rashtriya Ispat Nigam Limited
Visakhapatnam Steel plant
6th Floor, Prakashdeep Building
7, Tolstoy Marg, New Delhi-110001

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Sub: Expansion of Hot metal (Steel Plant) from 4.0 to 6.5 million tonne per annum (MTPA) at Visakhapatnam, Andhra Pradesh by M/s Rashtriya Ispat Nigam Limited.

Sir,

This has reference to your letter no. EnMD/87/546 dated 28th May, 2005 along with application, EIA /EMP reports and related project documents and subsequent communications/clarifications furnished by you vide your letters dated 1st June, 2005 and 30th June, 2005 for environmental clearance on the above mentioned project. The Ministry of Environment and Forests has examined your application. It is noted that expansion proposal involves increase in the hot metal production from 4.0 Million Tons per Annum(MTPA) to 6.5 MTPA, liquid steel production from 3.5 to 6.3 MTPA, saleable steel from 3.17 to 5.72 MTPA coal chemicals from 0.18 MTPA to 0.23 MTPA and power generation from 235 MW to 384MW.

It is noted that company is in possession of 8827 ha. of land area. The expansion will be carried out within the existing plant premises for which 407 ha. of area is required. No additional land will be required. The project does not involve diversion of forest land and displacement of people. Additional water requirement of 13 MGD would be met from the Yeleru Reservoir for which the company has entered into bulk supply agreement with Visakha Industrial Water Supply Company and Government of Andhra Pradesh. It is noted that the specific water consumption for steel making is 4m³/tonne of the product by collection of treated waste water, leakage water recycling and reuse. Solid waste would be generated in the form of Blast furnace slag (6720TPD), steel melting shop slag (2700TPD), gas cleaning sludge (144TPD), dust extraction system dust (1700 TPD), mill scale(328TPD) and used refractory bricks (100TPD). Thus, total solid waste generation would be 11692 TPD. Besides, 2063 TPD of boiler ash will be generated of which 1463 TPD will be stored in the ash pond and 600 TPD would be the dry ash. To meet the coke requirement, 3 coke oven batteries are being operated and 4th coke oven battery is under construction, which will operate as an additional battery from January, 2007 onwards also pulverized coal injection will be implemented in all three blast furnaces. Public hearing of the project was held on 28.03.2005. The Andhra Pradesh Pollution Control Board has granted NOC on 09.05.2005. Total cost of the project is Rs. 8211 crores.

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

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→ EDCW
ED (P&T)
All Govt (DGE)

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"Important"

Copy to: 1) Gm (EEE)
For n.a 2) DGM (Environ)
Also to: DGMs & all Gms.

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A. SPECIFIC CONDITIONS

- i. 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 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. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. As reflected in the EIA/Environmental Management Plan report, the company shall undertake water conservation measures by adopting closed loop water recirculation system, recycling of direct contaminating cooling water through cooling tower, use of cooling tower blow down and slag granulation and dust suppression. The wastewater from gas cleaning plant, rolling mill, power plant, cooling tower blow down shall be treated in wastewater treatment plants. The coke oven effluent shall not increase 2880m³/d. Existing effluent treatment plant shall be upgraded to treat the coke oven effluent and treated effluent shall comply with the prescribed standards. The company shall make efforts to maximize the reuse of the treated effluent. The surplus treated waste water shall be stored in the holding pond for use in the lean period. The overflow shall be discharged through a marine outfall into the sea. The discharge point shall be decided in consultation with the National Institute of Oceanography, Goa. Further, a marine ecological study shall be carried out to study the impact of discharge of excess treated waste water on the marine water quality. The domestic wastewater after treatment in STP shall be used for rolling mill and steel melt shop for cooling purpose.
- iii. In plant control measures for checking fugitive emissions from spillage/raw materials handling shall be provided. Further specific measures like provisions of dust extraction and dust suppression system for raw material handling, water sprinkling system at the stock yards shall be provided. The company shall provide dry fogging system for crushing and screening plant, material and transfer points etc. Data on fugitive emissions shall be regularly monitored and records maintained.
- iv. The company shall strictly comply with the standards notified under the Environment (Protection) Act, 1986 vide GSR.631(E) dated 31st October, 1997 to control the fugitive VOC emissions from the doors, lids and ofakes of the coke oven batteries.
- v. The company shall provide dust suppression system by bag filters and ESP to control the particulate emissions within 50mg/m³. Cast house fume extraction system shall be based on ESP/bag filters. The company shall install low NOx burners to control the NOx emissions.
- vi. As per the solid waste management plan submitted to the Ministry, the company shall enhance efforts for reuse of solid wastes. The BF slag shall be sold to the cement industries. The slag from the steel melting shop shall be partly reused and partly dumped within the plant premises. The sludge, dust extraction dust, mill scales and used refractory bricks shall be 100% recycled. The dry fly ash shall be utilized for brick making and ash from the pond will be used for land reclamation. The hazardous wastes generated in the tar sludge, benzol muck, M&C sludge shall be charged along with coal into the coke oven batteries. The spent oil shall be sold to the authorized reprocessors.

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- vii. The company shall develop green belt in 34 ha. of the plant area in addition to the 3426 ha. of plant area already afforested. Selection of plant species is as per the Central Pollution Control Board guidelines.
- viii. The company shall undertake rainwater harvesting measures to recharge the ground water.
- ix. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- x. Recommendations made in the Charter on Corporate Responsibility for Environment Protection shall be implemented.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Andhra Pradesh 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. 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, SO₂ and NO_x 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 Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.
- iv. Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1983 and 31st December, 1983 or as amended from time to time. The treated wastewater should be utilized for make up, plantation etc.
- 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 should conform to the standards prescribed under Environment (Protection) Act, 1986 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 Environmental Impact Assessment Notification, 1994 / Environmental Management Plan 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 will provide requisite funds both recurring and non-recurring 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 shall not be diverted for any other purposes.

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- viii. The Regional Office of this Ministry at Bangalore/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 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 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 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.
- 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. Ahujara)
Director

Copy to :-

1. The Secretary, State Deptt. of Environment, Government of Andhra Pradesh, Mantralaya, Hyderabad.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Andhra Pradesh State Pollution Control Board, 2nd Floor, HUDA Complex, Maltrivaram, S.R.Nagar, Hyderabad- 500 038.
4. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034.
5. JS(OCH), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
7. Guard file.
8. Record file.
9. Monitoring file.


(Dr. P. L. Ahujara)
Director