

**F. No. J-11011/196/2007- 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 26<sup>th</sup> December, 2007

To,  
M/s Monnet Ispat & Energy Ltd.  
4, Bhikaji, Cama Place  
New Delhi.

**E-mail : [jpl@monnetgroup.com](mailto:jpl@monnetgroup.com) ; Fax No. : 011-26102567**

**Subject : Integrated Steel Plant (1.75 MTPA) at Naharpali, Kharbia, Raigarh, Chattisgarh by M/s Monnet Ispat & Energy Ltd. – Environmental Clearance reg.**

**Ref. : Your letter no. MIL/HO/JPL/29 dated 20<sup>th</sup> February, 2007.**

Sir,

This has reference to your letter no. MIL/HO/JPL/29 dated 20<sup>th</sup> February, 2007 alongwith Form I, Prefeasibility Report, EIA/EMP and related project documents also with CD and subsequent clarifications furnished by you vide your letter dated 19<sup>th</sup> March, 2007, 26<sup>th</sup> March, 2007 and 3<sup>rd</sup> August, 2007 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that M/s Monnet Ispat & Energy Ltd. have proposed to set up an integrated steel plant and Captive Power Plant (240 MW) at Naharpali, Kharsia, Raigarh, Chattishgarh as per the details given below :

S.N.	Unit	Capacity (MTPA)
1	Sponge Iron Unit	0.70
2	Blast Furnace	1.00
3	Ferro Alloy Plant (Submerged Arc Furnace)	0.075
4	(Steel Plant) Electric Furnace	1.74
5	Rolling mill & Pellet	1.20
6	Power plant (7x120 TPH AFBC+4x35 TPH WHRB)	240
7	Palletisation Plant	1.20
8	Sinter Plant (2 x 0.75 TPA)	1.50
9	Coal Beneficiation Plant	1.00
10	DG sets (1x3.8 MVA & 3x1500 KVA)	1x3.8 MVA & 3x1500 KVA

Total project area is 227.84 ha. Rabo RF (0.92 Km, NE), Basnajhar RF (6.07 km, SW), Burha Pahar (6.64 Km, W), Kenmura PF (2.64 km., SW), Bendojhariya PF (5.11 Km, SW) are located

within 7 km radius from project site.

**3.0 Air pollution Control equipments e.g. ESPs, bag filters etc. will be provided. Kiln off gases will be used as fuel in the WHRB. In AFBC boilers, dolochar, coal middling and balance off gases from the BF will be used as fuel. Total fresh water requirement from Mahanadi River will be 37,340 m<sup>3</sup>/day. Total cost of the project is Rs. 2,025.00 Crores.**

3.0. Public Hearing / Public Consultation meeting was held on 4<sup>th</sup> August, 2007.

**4.0. 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:**

**A. SPECIFIC CONDITIONS :**

i) 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 methods to control emissions from the kiln and WHRB shall be provided viz.

Electrostatic precipitator (ESP) and bag filters etc. to keep emissions levels below 100 mg/Nm<sup>3</sup>. Gas cleaning plant (GCP) and Ventury scrubbers shall be provided to blast furnace (BF). The BF gases shall be cleaned in gas cleaning system (GCS) and used in AFBC power plant. Kiln off gases shall be used as fuel in the waste heat recovery boiler (WHRB).

ii) Secondary fugitive emissions from 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.

iii) Total requirement of the water from Mahanadi River shall not exceed 37,340 m<sup>3</sup>/day. Acidic and alkaline wastewater from demineralization unit shall be neutralized in neutralization tank. The wastewater from gas cleaning plant (GCP) of BF plant shall be treated in thickener to remove SS and recycled. As reflected in the EIA/EMP report, the wastewater generated from the various units shall be properly recycled and reused in the process and for cooling, palletizing, slag granulation, horticulture etc. The wastewater from coal beneficiation plant shall be reused for ash slurry preparation for the disposal of ash generated from AFBC boiler. No wastewater shall be discharged outside the premises and 'Zero' discharge shall be strictly followed as proposed. The domestic effluent shall be treated in septic tank followed by soak pits and used for green belt development.

iv) Prior permission for the drawl of ground as well as surface water from Mahanadi river from the State Ground Water Board / Central Ground Water Authority / concerned Department shall be obtained.

v) 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 other solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. ESP fly ash and bag filter dust shall be made available to the cement plants and brick making plants whereas 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. Mill Scale shall be reused in Ferro alloy/Pig iron furnace. The liquid slag shall be granulated in cast

house granulation unit and given to cement plants/brick manufacturers for further utilization. Non-granulated slag shall be used in making roads. DM resin shall be disposed in properly cemented pit. Waste oil and lubricant shall be sold to authorized recyclers. Kiln accretions shall be utilized for filling low lying areas. ETP sludge shall be used in brick making and filling low lying areas.

vi) All the fly ash shall be utilized as per Fly Ash Notification, 1999 and subsequently amendment in 2003.

vii) Green belt shall be developed in at least 33 % within and around the plant premises as per the CPCB guidelines in consultation with DFO.

viii) Prior permission from the State Forest Department shall be taken regarding likely impact of the expansion of the proposed steel plant on the surrounding reserve forests viz. Rabo RF (0.92 Km, NE), Basnajhar RF (6.07 km, SW), Burha Pahar (6.64 Km, W), Kenmura PF (2.64 km., SW), Bendojhariya PF (5.11 Km, SW).

ix) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel sector shall be strictly implemented.

## **B. GENERAL CONDITIONS:**

i. The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) 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. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.

iv. In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Further, specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. shall be installed at material transfer points, blast furnace stock house and other enclosed raw material handling areas. Centralized de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height conforming to the standards for induction furnaces existing in the industry and proposed induction and arc furnaces. Fugitive emissions shall be regularly monitored and records maintained.

v. 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 CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six months.

- vi. 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 form time to time. The treated wastewater shall be utilized for plantation purpose.
- vii. 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).
- viii. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- ix. 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.
- x. 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.
- xi. The project authorities shall provide adequate 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 should not be diverted for any other purpose.
- xii. The Regional Office of this Ministry at Bhopal/CPCB/CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- xiii. 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 CECB 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.
- xiv. 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)**  
**Additional Director**  
Copy to:

1. Secretary, State Department of Environment, Govt. of Chhattisgarh, Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
4. The Chief Conservator of Forests (Eastern), Regional Office (WZ), E-3/240, Arera Colony, Bhopal - 462 016, M.P.
5. Joint Secretary (CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment & Forests, New Delhi.
7. Guard file.
8. Record file.

**(Dr. P. B. Rastogi)**  
**Additional Director**