

File No- J-11011/218/2007-IA II- (I)

Date: 11th February 2008

To,

M/s Bajrang Metallics & Power Ltd.
K.H. No. 2/3 Village Gondwana
Raipur -493-221
Chhattisgarh

Subject: Expansion by Installing 1,50,000 TPA Re-Rolling Mill and 16 MW Coal Based Captive Power Plant at Gondwana, Raipur, Chhattisgarh by M/s Bajrang Metallics and Power Ltd. - Environment Clearance regarding.

Sir,

This is with reference to your application No. SBMPL/06-07/642 dated 22.01.2007 and subsequent communication dated 19.06.2007, 5.09.2007 and communication No. 6984/CG/P/S/M/2007 dated 27.12.2007 from the Chhattisgarh Environment Conservation Board seeking environment clearance for the above mentioned project.

2 The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is to set up an additional Rolling Mill of 1,50,000 TPA capacity and a 16 MW Coal Based Captive Power Plant at village Gondwana in Urla Industrial Area, Raipur District of Chhattisgarh State. The existing Hot re-rolling Mill is of 37,500 TPA capacity. Billets and Ingots, the raw materials for the proposed re-rolling mill will be sourced from the existing four Induction Furnaces of 6 MT each having a production capacity of 105,600 TPA. No additional Induction Furnace is proposed. Rolling will be TMT based and CPP will have 70 TPH Atmospheric Fluidized Bed Combustion Boilers (AFBC). The Re-rolling mill will run for 300 days and CPP shall be working for 330 days. Total land area required will be 1,85,000 sq. m. The company has 10 acres of free hold land in Urla Industrial Area. The existing green belt of 8080 m² will be increased to 37,000 m². A stack of 70 m will be provided with AFBC boiler and SPAL emissions will be within 50 ug/nm³. Initially 1,15,200 MTA of 'F' grade coal will be sourced from CIL and later it will be taken from the captive mining at pit head along with coal washery. Water requirement for the plant will be 1260 m³/d which will be out sourced from Chhattisgarh Ispat Bhumi Ltd. (CIBL). No waste water will be discharged outside the Plant. ESP dust will be used for captive fly ash Brick manufacturing or will be given for cement manufacturing. 16,400 MT of slag from the existing SMS will be used as replacement of sand for brick making or for road making and land filling and the char accumulated at the Borjharda, Urla Plant shall be used in the CPP. Mill scale will be sold

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to Ferro Alloys Plants and reported. Chhattisgarh Environment Conservation Board has accorded NOC on 05.12.2006. The unit has submitted the proof of notified industrial area. The cost of the project is Rs. 66.00 Crores.

3. The project activity is listed at 3(a) under Secondary Metallurgical Processing Industry in the Schedule of EIA Notification, 2006 and is of 'B' Category. However considered at the Central Level in the absence of SEIAA and SEAC for the State of Chattisgarh. The Terms of Reference (TORs) for the preparation of EIA/EMP Report for the project were communicated vide this Ministry's even numbered letter dated 12th July 2007. Public Hearing for the project is not required as per Para 7 (i) III Stage (3)- Public Consultation of EIA Notification, 2006.

4. Based on the information submitted by you, 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 implementation of the following conditions-


A. SPECIFIC CONDITIONS:

- (i) No additional induction furnace shall be installed. The Re-rolling mill and CPP shall operate for 300 and 330 days respectively.
- (ii) The gaseous emissions from various process units, especially CO and HC shall conform to the load 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. At no time the emission level shall go beyond the prescribed standards. On-line Continuous monitoring system for particulate emissions shall be provided and shall make necessary arrangements for submission of On-line real time emission data to CPCB website. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.
- (iii) Air emissions from ABC boiler shall be controlled using ESPs to limit the SPM to 50 mg/Nm³. 70 m high stack shall be provided with the boiler. The oil / coal gas fired reheating furnace of rolling mill shall have a minimum of 30 m stack. SPM emission from the Stacks will be restricted within 50 mg/Nm³.
- (iv) Recuperator shall be installed for heat recovery from the flue from the reheating Furnaces.

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- (v) 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 extraction and suppression system consisting of water sprinkling, suction hoods, fans, bag filters, etc. shall be installed at material transfer points, furnace stock house and other enclosed raw material handling areas. Centralized de-dusting system i.e. collection of fugitive emissions through suction hood shall be provided with bag filters and a stack of appropriate height, as prescribed above, shall be provided for Induction furnaces. Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained.
- (vi) Raw material shall be stored in covered yards. Water sprinkling arrangement shall be made in the raw material stock yard to control fugitive emissions. Materials will be transported in tippers, covered trucks, covered containers, covered rail wagons etc.
- (vii) Windbreakers shall be provided to restrict fugitive dust.
- (viii) No waste water shall be discharged outside the Plant and 'Zero Discharge' shall be strictly followed. The wastewater, after treatment, shall be reused for cooling, slag quenching, gardening, green belt development and dust suppression. Treated Waste water will also be recycled in the process. The domestic wastewater will be treated in the soak pit and used for gardening/ green belt development.
- (ix) ESP dust shall be used for captive fly ash brick manufacturing or will be given to cement manufacturing plants. Slag from the existing SMS shall be used as replacement of sand for brick making or road making and land filling. Char accumulated at the Barjhora, Urla Plant shall be used in the CPP at this site. Mill scale shall be sold to Ferro Alloys Plants or exported. Bag Filter Dust shall be either sold or used in brick making. Coal Washery Rejects and Fines shall be stored in the premises for use in the AFBC Boiler. These shall be stored properly to avoid any fugitive dust and impact to the environment.
- (x) Flyash shall be utilized as per the Fly Ash Utilisation Notifications No. S.O. 763(E) dated 14.9.1999 and S.O. No. 513(E) dated 3.4.2007 of the Ministry of Environment and Forests.
- (xi) Acoustic enclosures shall be installed to limit the noise levels below 85 dBA.
- (xii) Minimum Cycle of Concentration (COC) for the CPP shall be 5.0



(xiii) The company shall strictly follow all the recommendations mentioned for the Steel plants in the Charter on Corporate Responsibility for Environmental Protection (CREP).

(xiv) Green belt shall be further developed upto an area of 37,000 m².

(xv) The company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.

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 shall be carried out without prior approval of the Ministry of Environment and Forests.

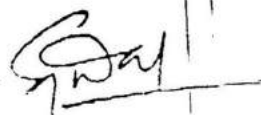
iii. Regular Ambient Air Quality Monitoring shall be carried including CO and HC. The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated for SPM, SO₂ and NO_x. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and CECB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.

iv. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.

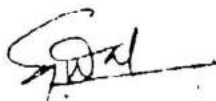
v. Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.

vi. The overall noise levels in and around the plant area shall be limited within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.

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- vii. Proper House keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.
 - viii. A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.
 - ix. Adequate funds shall be earmarked for the environmental protection measures and shall be used judiciously 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.
 - x. Regional Office of this Ministry at Bhopal / Chhattisgarh Environment Conservation Board / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.
 - xi. The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Chhattisgarh Environment Conservation Board / Committee and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bhopal.
 - xii. 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 start of land development work.
6. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
7. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.



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8. 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, the Public Liability Insurance Act, 1991, Hazardous Waste (Management & Handling) Rules, 1989 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules.



(Sanchita Jindal)
Additional Director

Copy to:

1. The Additional Principal Secretary, Department of Housing & Environment, Mantralaya Chattisgarh, Raipur- 492 001, Chattisgarh.
2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (WZ), E-5, Area Colony, Link Road-3, Bhopal : 462 016, Madhya Pradesh.
3. The Chairman, Central Pollution Control Board Parvesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Chattisgarh Environment Conservation Board, H. No. 1, Tilak Nagar, Shiv Mandir Chowk, Aanti Vihar, Raipur, Chattisgarh.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File
7. Monitoring File
8. Record File.

(Sanchita Jindal)
Additional Director