

Annexure-i



संस्कृत शब्द  
Ministry of Environment &  
Forests (MoEF)

No.J-11015/48/2008-IA.II(M)

Paryavaran Bhawan,  
C.G.O.Complex,  
New Delhi - 110510.

Dated: 11<sup>th</sup> September 2009

To

[ms.coal-mef@nic.in](mailto:ms.coal-mef@nic.in)

General Manager (Coordination),  
**M/s Bhatia International Ltd.,**  
Plot No. 24, Ambika Apartment,  
Wardhaman Nagar, NAGPUR - 440008.

**Sub: Coal Washery (1.5 MTPA) of M/s Bhatia International Ltd. located Sr. No. 64, 65, 66, 67 Mouza in village Gondegaon, Tehsil Parseoni, Dist. Nagpur, Maharashtra - Environmental Clearance - reg.**

Sir,

This has reference to letter No. BIL/NGP/07-08/1095 dated 18.01.2008 along with application for Terms of Reference (TOR) and this Ministry's grant of TOR vide letter dated 23.04.2008 and subsequent application vide letter No. nil dated 20.08.2008 for environmental clearance and letters dated 23.02.2009, 01.06.2009 and 12.06.2009 on the above-mentioned subject. The Ministry of Environment & Forests has considered the application. The proposal is for establishing a stand-alone **Coal Washery Unit of 1.5 million tonnes per annum (MTPA) capacity of raw coal by wet process (Heavy Media) in a total area of 8.28 ha.** The Washery would be established in two phases, 1.5 MTPA capacity in first phase and 2 MTPA capacity in second phase. The major linkage for use of washed coal is Maharashtra State Electricity Board (MSEB). There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 15 km buffer zone. The project area of **11.85 ha**, consists of infrastructure 2.43 ha, storage area 2 ha, green belt 2.25 ha, roads 0.8 ha, and open space 0.8 ha. Raw coal (Grade E/F/G) is to be obtained from M/s WCL on behalf of MSEB and transported from the coalmines to the washery unit by road located at a distance of about 8 km. The process used is wet Heavy media Separation (HMS). The washery unit would include an ETP, Coal washing plant, slurry recovery system, storage sheds, and office building. Peak water (make-up) requirement is 220 m<sup>3</sup>/d for both the washery operations (160 m<sup>3</sup>/d), dust suppression (20 m<sup>3</sup>/d), green belt development (30 m<sup>3</sup>/d) and for domestic consumption (10m<sup>3</sup>/d), which would be met from ground water. NOC from the Groundwater Survey and Development Agency (GSDA) of State Government obtained on 15.12.2008. The unit would house raw coal stockyard, finished coal stockyard and for storing coal rejects. The unit is designed for zero-discharge. Wastewater generated during beneficiation would be reused. The total rejects would be around 20% of the raw coal. Coal dust and fines are to be blended with washed coal. Coal rejects are to be transported to various cement plants and solid wastes to brick manufacturers. Road transport involves transport of raw coal in 20-T tippers covered by tarpaulins and finished coal along with coal fines would be sent to Dumri railway siding by road covering a distance of 1.5 km from the Washery. Public Hearing was conducted on 30.06.2008. Capital cost of Phase-I of the project is **Rs. 11.50 crores.**

2. The Ministry of Environment & Forests hereby accords environmental clearance for the establishment of the above-mentioned **Gondagaon Coal Washery of 1.5 million tonnes per annum (MTPA) (ROM) capacity of M/s Bhatia International Ltd.** under the provisions of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto and under various MOEF Circulars there under and subject to conditions specified below:

**A. Specific Conditions**

- (i) The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored raw coal, washed coal and coal wastes do not catch fire.
- (ii) Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.
- (iii) All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using local species shall be developed along the main roads, and approach roads to the washery.
- (iv) Trucks engaged for mineral transportation outside the washery shall be optimally loaded and covered with tarpaulin with no spillage en route. The trucks shall be properly maintained and emissions shall be below notified limits.
- (v) Despatch of clean coal to MAHAGENCO and coal rejects to industries with which it has entered an MOU shall be by rail from Dumri Railway Siding. The MOU along with despatch details shall be displayed on the company's website.
- (vi) Ash content of coal before and after washing shall not exceed 34% in the clean coal. Proper records shall be maintained in this regard.
- (vii) No additional groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures. A Pressure Filter shall be installed in the washery plant for recovery of water.
- (viii) The Washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. Recycled water shall be used for development and maintenance of green belt and in the Plant Operations.
- (ix) Industrial wastewater (workshop and wastewater from the washery) 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 before discharge. Oil and grease trap shall be installed for treatment of workshop effluents.
- (x) Green belt of 2.25 ha shall be developed using local species all along the periphery of the site, along the areas such as the washery unit, crushing unit, and stockyard.
- (xi) Socio-economic and welfare measures for the local communities shall be implemented under CSR with a capital outlay of Rs 10 lakhs and an annual revenue expenditure of Rs. 5 lakhs and details thereon displayed on the company website every year.
- (xii) Mercury content in raw coal, and washed coal shall be analysed twice in a year and records maintained thereof.

## B. General Conditions

- (i) No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including quantum of mineral coal and waste shall be made.
- (iii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RSPM, SO<sub>2</sub> and NO<sub>x</sub>. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in SPM and RSPM etc. shall be carried out at least once in six months.
- (iv) Data on ambient air quality (SPM, RSPM, SO<sub>2</sub> and NO<sub>x</sub> and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EP Rules, 1986 shall be furnished as part of the compliance report.
- (v) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- (vi) Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, and treated so as to conform to the standards including for heavy metals before discharge 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. Oil and grease trap shall be installed before discharge of workshop effluents.
- (vii) Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.
- (viii) Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.
- (ix) Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.  
Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.
- (x) A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- (xi) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.
- (xii) The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State

Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>

- (xiii) A copy of the environmental clearance letter shall be marked to concerned Panchayat/ Zila Parishad/Municipal Corporation or Urban Local Body/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.
- (xiv) A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xv) The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as SPM, RPM, SO<sub>2</sub> and NO<sub>x</sub> (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.
- (xvi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.
- (xvii) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- (xviii) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail.

3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.


4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.

5. 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 Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

(Dr.T.Chandini)  
Director

**Copy to:**

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment, Government of Maharashtra, 15<sup>th</sup> Floor, New Admn. Bldg., Madam Cama Road, MUMBAI - 400032..
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arear Colony, Bhopal - 462016.

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4. Chairman, Maharashtra State Pollution Control Board, Kalapataru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400002.
  5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
  6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
  7. District Collector, Nagpur, Government of Maharashtra.
  8. Monitoring File      10.      Guard File      11.      Record File.