

No. J-11015/203/2015-IA-II(M)  
Government of India  
Ministry of Environment, Forest & Climate Change  
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,  
Jorbagh Road, N Delhi-3

Dated: 31<sup>st</sup> August, 2016

To,

The Chief General Manager (CP&P)  
M/s Mahanadi Coalfields Limited  
PO : Jagruti Vihar, Burla,  
**Sambalpur-768 020**  
**(Odisha)**

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**Sub: Jagannath Washery of 10 MTPA of M/s Mahanadi Coalfields Ltd in an area of 29.94 ha in village Hensmul, District Talcher (Odisha) - Environmental Clearance reg.**

Sir,

This is with reference to your online proposal No. IA/OR/CMIN/28013/2015 vide letter No. MCL/HQ/Environment/Jagannath Washery/2074 dated 02.03.2016 and subsequent letters dated 04.05.2016, 12.05.2016, 08.06.2016, 14.06.2016, and 24.06.2016 on the above-mentioned subject.

2. The Ministry of Environment, Forest & Climate Change has considered the application. It is noted that the proposal is for grant of environmental clearance to the project for **Jagannath Washery of 10 MTPA of M/s Mahanadi Coalfields Ltd in an area of 29.94 ha in village Hensmul, District Talcher (Odisha)**.

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 55<sup>th</sup> meeting held on 11-12 May, 2016 and 58<sup>th</sup> EAC meeting held on 23 -24 June, 2016. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under:-

(i) The project was accorded ToR vide letter No. J-11015/203/2015-IA-II (M) dated 13<sup>th</sup> August, 2015. Amendment in ToR was issued vide letter dated 1<sup>st</sup> February, 2016.

(ii) The latitude and longitude of the project site are 20<sup>o</sup> 57' 59" N to 20<sup>o</sup> 58' 43" N and 85<sup>o</sup> 09' 10" E to 85<sup>o</sup> 11' 37" E respectively.

(iii) Joint Venture: No

(iv) Coal Linkage: Linked to Bhubaneswari Opencast Project of 25 MTPA.

(v) Employment generated/to be generated: Washery will be constructed on BOM concept. Hence, employment would be generated by the BOM operator.

(vi) Benefits of the project: Beneficiation/washing of coal will lead to reduction in particulate emission, improvement in performance of power plant, reduction in load on Railway Network, reduction in handling and transportation cost of coal and solid waste.

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(vii) Land usage of the project will be as follows: Total land involved for washery is 29.94 ha (20.04 ha for washery site + 9.9 ha for temporary reject storage). Present land use breakup is as follows:

Govt. Forest land – NIL (2.55 ha.- mined out and regularized forest land for Temporary reject sage);

Govt. Non-forest land - 2.30 ha ;

Non Forest Land (Tenancy) - 25.09 ha;

The entire land (29.94 ha) has already been acquired by MCL and is in physical possession of MCL.

(viii) The coal grade is G11.

(ix) The total estimated water requirement is 2271 KL/D at 0.084 KL/T of coal washed.

(x) The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.

(xi) The life of Washery is 18 years for computation of economics.

(xii) Transportation: By covered conveyor belt (for Raw coal, Washed coal & Reject).

(xiii) There is no R & R involved. There are no PAFs.

(xiv) Cost: As per Revised Conceptual Report (RCR): 26535.00 Lakh. As per Lowest Bidder: 34875.00Lakhs.

(xv) Water body : Brahmani river at 6 km (E), Nandira jhar at 9 km (S), Singada jhar at 12 km (W) from the mine boundary.

(xvi) Approvals: Board's approval obtained on 5<sup>th</sup> November, 2014.

(xvii) Wildlife issues: There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.

(xviii) Forestry issues: For Washery site - Nil; For temporary reject storage-2.55 ha; (Already mined out and regularized); FC for 2.55 ha forest land for proposed temporary reject storage has been obtained for Ananta OCP and mined out.

(xix) Green Belt over an area of Approx. 3.67 ha around washery site and 5.37 ha around reject storage site. The density of tree plantation 1600 nos. per ha.

(xx) There are no court cases/violation pending with the project proponent.

(xxi) Public Hearing was first held on 16<sup>th</sup> February, 2016 and then again on 12<sup>th</sup> April, 2016.

4. The EAC, after detailed deliberation on the proposal *in the 58<sup>th</sup> meeting on 23-24 June, 2016* recommended the project for grant of Environmental Clearance. The Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the **Jagannath Washery of 10 MTPA of M/s Mahanadi Coalfields Ltd in an area of 29.94 ha in village Hensmul, District Talcher (Odisha)** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the terms & conditions and environmental safeguards mentioned below:

#### A. Specific Conditions:

- i. The washery shall be as per project report submitted and presented to EAC.
- ii. Transport of raw coal through pipe belt conveyor and clean coal and reject by rail with wagon loading through silo.
- iii. Reject will be utilized in power generation for which Joint Venture companies has been done with NTPC.
- iv. The technology so chosen should conform to 'Zero Liquid Discharge'.
- v. Transportation of raw coal to be done through pipe conveyor and clean coal through silo.
- vi. Thick green belt of 30-45 m width to be provided around the washery to mitigate/check the





- dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads.
- vii. Waste Water shall be effectively treated and recycled completely either for washery or maintenance of green belt around the plant.
- viii. The assurances given during the Public Hearing and as per the Action Plan developed by the proponent should be implemented
- ix. 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.
- x. All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with mechanical sweepers.
- xi. Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website.
- xii. No 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.
- xiii. Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website.
- xiv. Heavy metal content in raw coal, and washed coal shall be analysed once in a year and records maintained thereof.
- xv. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- xvi. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.
- xvii. Corporate Environment Responsibility:
- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
  - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
  - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
  - d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

## **B. General Conditions**

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.

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- ii. No change in the calendar plan of production for quantum of mineral coal 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 PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> monitoring. 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, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office 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 EPA rules, 1986 shall be furnished as part of 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, 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 before discharge of workshop effluents.
- vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting 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 EPA 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.
- x. 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 and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
- xi. 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.
- xii. 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 concerned Regional Office.
- xiii. 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 & Climate Change at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and 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 company's website.

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- xv. A copy of the environmental clearance letter shall be shall also 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 Sector and Collector's Office/Tehsildar's Office for 30 days.
  - xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance 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 public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.
  - xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
  - xviii. The Regional Office of this Ministry located in the Region 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.
  - xix. The Environmental statement for each financial year ending 31 March in For -V is mandated to be submitted by the project proponent for 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&CC by e-mail.
5. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
  6. The commitment made by the proponent to the issues raised during Public Hearing shall be implemented by the Proponent.
  7. The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
  8. The proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.
  9. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
  10. 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 and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter. 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.

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11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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31/8/2016  
(S. K. Srivastava)  
Scientist E

**Copy to:**

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. The Secretary, Department of Environment & Forest, Government of Odisha, Secretariat, Bhubaneswar
3. The Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forest, A-31, Chandrashekarapur, Bhubaneswar – 751023.
4. The Member Secretary, Odisha State Pollution Control Board, Neelakanth Nagar, Unit-VIII, Bhubaneswar.
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
6. The Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. The Advisor, Coal India Limited, SCOPE Minar, Core-I, 4t Floor, Vikas Marg, Laxmi nagar, New Delhi.
8. The IG (Wild life), Ministry of Environment and Forest, New Delhi
9. The District Collector, **Talcher**, Government of Odisha.
10. Monitoring File 11. Guard File 12. Record File 13. Notice Board.

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31/8/2016  
(S. K. Srivastava)  
Scientist E