

No.J-11015/ 365/2009-IA.II(M) pt.
Government of India
Ministry of Environment, Forest and Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 30th March, 2017

To,

Shri N S Prasad
GM I/c (W&T), Steel Authority of India Limited (SAIL)
Office of the Executive Director, Collieries Division,
2nd Floor, 97 Park Street,
Kolkata (West Bengal)

E-mail: edsailcdkol@gmail.com, sailcrmg@gmail.com, rmddel@gmail.com

Sub: Pit Head Coking Coal Washery of 3.5 MTPA of M/s Steel Authority of India Ltd. in an area of 20 ha located in Tasra Coal Block of Jharia Coalfields, District Dhanbad (Jharkhand) - Environmental Clearance - reg.

Sir,

This is with reference to your online proposal No. IA/JH/CMIN/8735/2012 dated 19.02.2016 vide letter No. GM/25-Pc/464 dated 18.02.2016 and subsequent letters dated 07.03.2016, 09.03.2016, 28.04.2016, 04.05.2016, 11.05.2016, 05.09.2016, 03.01.2017, 16.02.2017, and 09.03.2017 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 Pit Head Coking Coal Washery of 3.5 MTPA of M/s Steel Authority of India Ltd (SAIL) in an area of 20 ha located in Tasra Coal Block of Jharia Coalfields, District Dhanbad (Jharkhand).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 53rd meeting held on 17-18 March, 2016, 55th meeting on 11-13 May, 2016 and 4th meeting of the reconstituted EAC held on 30-31 January, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are as under:-

(i) The project was accorded TOR vide letter No.J-11015/365/2009-IA.II (M) dated 25th February, 2013. Approval for extension of validity of TOR up to 24.02.2016 was issued vide letter dated on 27th July 2015.

(ii) It is a two product washery, having heavy media separation and water only cyclones.

(iii) The latitude and longitude of the project are 23° 40' 01.33"; 23° 39' 54.16" N and 86° 27' 02.67"; 86° 27' 48.29" E respectively.

(iv) Joint Venture: There is no joint venture.

(v) Coal Linkage : Raw coal requirement will be about 3.5 MTPA. Coal will be sourced from Tasra open cast project of SAIL. The raw coal quality varies from Washery Grade-II to Washery Grade-IV, mainly being Washery Grade-III & IV.

(vi) Employment generated/to be generated: 166 Persons

Tasra Washery 3.5 MTPA in 20 ha Jharkhand of MCL_EC



(vii) Benefits of the project: The proposed project will result in improvement of infrastructure as well as up-liftment of social structure in the area. The people residing in the nearby areas will be benefited directly and indirectly. It is anticipated that the proposed washery plant will provide benefits for the locals.

(viii) Land requirement for the project is 20 ha. of which 18 ha is for the washery and 2 ha for the railway siding.

(ix) Total estimated water requirement is 1740 m³/day.

(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 the proposed washery has been considered as 23 years after its commissioning. A total period of 18 months has been considered for construction and commissioning of Tasra washery including trial operation and Performance Guarantee Tests (PGT).

(xii) Transportation: Coal transportation in pit by covered conveyor from in pit to pit head coal handling plant, Surface to Siding by covered conveyor belt to Pre-weigh Bin and loading at siding by Rail.

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

(xiv) Cost: The estimated total initial capital investment for washery under departmental option has been estimated at Rs.171.83 crore and the same under outsourcing option has been estimated as Rs.30.77crore (As per PFR of 2009). R&R Cost - Nil. Environmental Management Cost Rs. 130 Lakhs, Recurring Cost will be about Rs.32.0 Lakhs per annum.

(xv) Water body: Domohani jore and Cilatu are the two seasonal jores flowing in the east and west side of the project area.

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

(xvii) Forestry issues: There is no forest area involved.

(xviii) Green Belt over an area of 3.2 ha.

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

(xx) Public Hearing was held on 30th January, 2016 at P.O. Motinagar, District Dhanbad. The issues raised in the public hearing include employment to the local residents, constitution of committee to solve the problem of former employee of Bihar super Phosphate Factory. arrangement for supply of safe drinking water in nearby villagers, apprehension for the negative impact of washery on agricultural crops of the area, formation of committee to look the welfare scheme of education, to organize medial camp and utilization of CSR fund for needy persons.

4. The EAC, after detailed deliberations on the proposal in its 4th meeting on 30-31 January, 2017 recommended the project for grant of Environmental Clearance. The Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to **Pit Head Coking Coal Washery of 3.5 MTPA of M/s Steel Authority of India Ltd in an area of 20 ha located in Tasra Coal Block of Jharia Coalfields, District Dhanbad (Jharkhand)** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the terms and conditions and environmental safeguards mentioned below:

A. Specific Conditions:

(i) The technology for washery shall be as per the project report submitted and presented to the Expert Appraisal Committee.

(ii) The technology so chosen for the washery should conform to 'Zero Liquid Discharge'.

(iii) Long Distance Belt Conveyor (LDBC) system for transportation of raw coal from Tasra Coal

Pit to the proposed washery covering a length of 2 km, with water sprinkling arrangements at all transfer points, shall be installed.

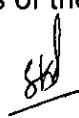
- (iv) Thick green belt of 30-45 m width to be provided around the washery to mitigate/check the dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads.
- (v) Transport of washed coal and middling shall be ensured by rail with wagon loading through silo.
- (vi) Disposal of washery rejects shall be in accordance with the extant policy and guidelines, and environment friendly.
- (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 formulated by the project proponent should be implemented
- (ix) Hoppers of the coal crushing unit and washery shall be fitted with high efficiency bag filters or mist spray water sprinkling system 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 be made available to Ministry whenever directed.
- (xii) No groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse of treated effluent 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 analyzed once 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, Forests and Climate Change.
- (ii) Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to Regional Office of the Ministry and to the State 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 once in a year.
- (iii) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in noisy areas like crushers, pumps, conveyors, bath, cyclones, etc shall be provided with ear plugs/muffs.
- (iv) Industrial waste water shall be properly collected and treated in sedimentation ponds and treated water shall be recycled in washing circuit and other usages. No effluent shall be discharge to surface water bodies.



- (v) Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- (vi) Monitoring of effluent 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.
- (vii) Personnel (Departmental, Outsourced and casual if any) 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.
- (viii) Occupational Health Surveillance Programme of all workers (Departmental, Outsourced and casual if any) shall be undertaken periodically to observe any ill effect 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.
- (ix) 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.
- (x) The funds earmarked for environmental protection measures shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- (xi) 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>.
- (xii) 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.
- (xiii) An Electronic copy of the environmental clearance letter shall be forwarded to State Pollution Control Board, Regional Office of the Ministry, District Industry Sector and Collector's Office/Tehsildar's Office for its display in public domain for 30 days.
- (xiv) 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 PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises.
- (xv) 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 and the SPCB.
- (xvi) 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.
- (xvii) 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, and also during presentation to the EAC. Also, all the commitments on the issues raised during public hearing shall be implemented in letter and spirit by the project proponent.
6. The proponent is required to obtain all necessary clearances/approvals 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.
7. The proponent shall setup an Environment Cell with responsibility and accountability to ensure implementation of all the EC Conditions.
8. 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.
9. 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 washery operations.
10. 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.

SK
30/3/2017
(S. K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Secretary, Department of Environment & Forests, Gov. of Jharkhand, Secretariat, Ranchi.
3. The Additional Principal Chief Conservator of Forests, Regional office (ECZ), Ministry of Environment & Forests, Bungalow No. A-2, Shyamali Colony, Ranchi – 834002
4. The Member-Secretary, Jharkhand SPCB, TA Building, HEC Complex, PO Dhurwa, Ranchi
5. The Member-Secretary, CPCB, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
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, 4th Floor, Vikas Marg, Laxmi Nagar, N Delhi
8. The District Collector, **Dhanbad**, Government of Jharkhand
9. Monitoring File 10. Guard File 11. Record File 12. Notice Board

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