

No.J-11015/260/2008-IA.II(M)
Government of India
Ministry of Environment & Forests

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

Dated: 10th December 2008

To
President,
M/s Monnet Daniel Coal Washeries Pvt. Ltd.
Monnet House, 11 Masjid Math,
Greater Kailash Part II,
New Delhi -110048.

Sub: Expansion of Coal Washery by wet process (0.9 MTPA to 5 MTPA of raw coal) of M/s Monnet Daniel Coal Washeries Pvt. Ltd., located within KDH OCP of M/s Central Coalfields Ltd., in village Karanpura, district Ranchi, Jharkhand - Environmental Clearance- reg.

Sir,

This has reference to letter No. MIEL/HO/JPL/72 dated 16.06.2008 with application for Terms of Reference (TOR) and this Ministry's grant of TOR vide letter dated 25.08.2008 and subsequent application dated 06.10.2008 for environmental clearance and letters dated 08.11.2008 on the above-mentioned subject. The Ministry of Environment & Forests has considered the application. The proposal is for **expansion of coal washery from 0.9 million tonnes per annum (MTPA) capacity of raw coal to 5 MTPA raw coal capacity by wet process** at their existing unit located within the leasehold of KDH Opencast Coalmine of M/s Central Coalfields Ltd. (CCL) for which EC had been obtained by M/s CCL on 29.10.1993, in district Ranchi, in a total area of 15.5 acres. There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 15 km buffer zone. Land within the premises of KD Hesalong OCP coalmine of M/s CCL has been transferred to Punjab State Electricity Board for establishing the washery, which has been given to M/s Monnet Daniel Coal Washeries Pvt. Ltd under contractual agreement. The coal washery has been established in an area 15.5 acres within the mine. The Coal washery is based on Heavy Media Technology of two streams of 400 TPH (2.5 MTPA) each operating for 313 days in a year. Coal from the mine is presently transported from the mine by trucks to the railway siding located within the premises. With the operation of the coal washery, raw coal obtained from KDH mines would be received by trucks from the mine and off loaded to the washery covering a distance of 0.6 km and the washed coal would be transported by conveyors to railway siding and by rail to Punjab. The establishment of the washery would not result in additional traffic. Ash content in the raw coal would be reduced from 40-45 % to about 34% for consumption of PSEB. Washed coal would be transported by conveyor to railway siding of mine. The washery would operate on a zero discharge concept and all the process water would be clarified through a five-stage treatment system and recycled back into the close circuit of the washery. No effluent would be discharged into the natural drains. A seasonal nala passes through the plot, which would not be changed. All the equipment and conveyors would be covered and therefore would be no discharge of runoff from the washery into the natural drains. The rejects would go via rail to the captive TPP of PSEB. About 2.5 % of the profits would be utilised in CSR related activities. Life of the Washery is 30 years. Capital cost of the project is Rs. 45 crores.

2. The Ministry of Environment & forests hereby accords environmental clearance for the above-mentioned **expansion of the coal washery unit from 0.9 million tonnes per annum (MTPA) to 5 MTPA** of raw coal under the provisions of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto and under Para 2.1.1 of MOEF Circular dated 13.10.2006 and subject to conditions specified below:

A. Specific Conditions

- (i) The company shall prepare and implement a plan for transportation of washed coal by rail mode only from the railway siding within the KDH OCP. The internal transport of raw coal is by trucks and washed coal and rejects coal from the washery shall be by belt conveyors upto the railway siding.
- (ii) 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 minerals do not catch fire. Only one day stock shall be stored in the stockyard.
- (iii) Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters/Dust extractors 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 belt conveyor systems which shall be closed and from transportation roads.
- (iv) All internal roads shall be concretised. The roads shall be regularly cleaned with mechanical sweepers. Avenue plantation developed along the roads.
- (v) No groundwater shall be used for the washery operations.
- (vi) The unit shall operate on the principle of zero-discharge. 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 19th May 1993 and 31st December 1993 or as amended from time to time and completely recycled for the washery operations and for green belt development. Oil and grease trap shall be installed for treatment of workshop effluents.
- (viii) Green belt shall be developed along the areas such as the washery unit, crushing unit, and stockyard.
- (ix) Socio-economic and welfare measures for the local communities in villages Bismapur and Kerkatta and around the KDH coalmine housing the washery unit shall be implemented under CSR.
- (x) Coal waste rejects of about 3 MTPA generated from the washery operations shall be fully utilised in the TPP. 3 MTPA

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 for washing the quantum of mineral coal and waste produced 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, SO₂, NO_x and heavy metals such as Hg, Pb, As, Cr, etc. 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.
- (iv) Fugitive dust emissions (SPM and RSPM and heavy metals such as Hg, Pb, As, Cr, etc) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.

- (v) Periodic monitoring report with data on ambient air quality (SPM, RSPM, SO₂, NO_x and heavy metals such as Hg, Pb, As, Cr, etc.) 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.
- (vi) Adequate measures shall be taken for control of noise levels below 85 cBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- (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) Environmental quality shall be regularly monitored and got analysed through an Environmental laboratory established under the Environment (Protection) Act, 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) An 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 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.
- (xiii) A copy of the will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xiv) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xv) 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>.
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 ground water 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 & Forests, Government of Jharkand, Secretariat, Ranchi.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, A-31, Chandrashekarpur, Bhubaneshwar - 751023.
4. Chairman, Jharkand State Pollution Control Board, T.A. Division Building (Ground Floor), H.E.C., Dhurwa, Ranchi - 834004.
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. Shri M.K. Shukla, CGM, Coal India Limited, SCOPE Minar, Core-I, 4th Floor, Vikas Marg, Laxminagar, New Delhi.
8. District Collector, Ranchi, Government of Jharkand.
9. Monitoring File 11. Guard File 12. Record File