

HALF YEARLY COMPLIANCE REPORT (October 2016 to March 2017)

Bhelatand Washery, Dhanbad

Ref: MoEF, New Delhi Environment Clearance F. No. J-11015/235/2009-IA.II (M) dated 29th March, 2012

| Sl. No | CONDITIONS | Compliance Status |
|--------|--|--|
| | Specific Conditions | |
| I | 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 | Since this is new project compliance will be done during commissioning of the plant. |
| ii | A distance of about 200m shall be maintained between the washery plant and the HFL of River Katri. The area along the riverside shall be developed with thick plantation consisting of native species. | Will be complied |
| iii | The raw coal, washed coal and middling and coal wastes (rejects) shall be stacked properly at earmarked site(s) within sheds/stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire. | Will be complied during plant commissioning phase. |
| iv | The proponent shall maintain proper records of the ash content of raw (ROM) coal, clean coal, middling and coal rejects and the same shall be uploaded along with quantum of raw coal obtained and washed and dispatched every month on the company website every month. | Will be complied during plant commissioning phase. |
| v | The entire coal waste rejects shall be utilised in the linked to FBC based TPP of M/S Inland Power Ltd. Which is building a 2x63 MW CFBC TPP at Gola, dist. Ramgarh, Jharkhand, at distance of 70km from the unit. | Will be complied as desired |
| vi | High capacity/tonnage trucks shall be engaged for transportation of raw coal to the washery and which shall be optimally loaded and covered with tarpaulin. | Will be complied during plant operation stage |
| vii | The entire quantity of clean coal shall be transported by rail only to the linked steel plants at Jamshedpur, Bokaro, Bhilai, Rourkela and Durgapur and middling to the linked TPP at Bokaro and coal rejects to FBC based TPP at Ramgarh. | Will be complied |
| viii | All Internal roads shall be concreted or black topped and the approach roads used for transportation/nearby roads not owned by the company but used for the project | Will be complied during project completion phase |

HALF YEARLY COMPLIANCE REPORT (October 2016 to March 2017)

Bhelatand Washery, Dhanbad

Ref: MoEF, New Delhi Environment Clearance F. No. J-11015/235/2009-IA.II (M) dated 29th March, 2012

| Sl. No | CONDITIONS | Compliance Status |
|--------|---|--|
| | shall be blacked topped. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit. | |
| ix | The roads (internal/approach/and roads used for the project) shall be regularly cleaned with mechanical sweepers and with water sprinklers. A 3-tier avenue plantation using native species shall be developed along the roads. | Will be complied during plant operation stage. |
| ix | Green belt shall be developed along the areas such as the washery unit, crushing unit, and stockyards and at transfer points. A 3-tier avenue plantation shall be developed along the major approach roads, internal roads and nearby roads used by the company. | Will be complied during plant operation stage. |
| x | Hoppers of the coal crushing shed 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. | Will be complied during plant operation stage. |
| xi | An estimated 9000 m ³ /d of water to be used in the washery shall be sourced from Bhelatand and Sijua mine water of M/S Tata Steel located at a distance of 1 km and 2.5 km respectively and transported by pipelines from the two coal mines. No ground water shall be used for the plant operations. The unit shall adopt rainwater harvesting measures within the premises and nearby areas to meet the requirement of additional water to the extent possible and only thereafter water from River Katri shall be used with prior approval of the competent authorities. | Will be complied during plant operation stage. |
| Xii | Proper housekeeping practices shall be followed and all the raw materials including sludge and waste oil shall be stored separately in designated places only. | Will be complied during plant operation stage. |
| xiii | Industrial wastewater (workshop and washery-cum Re-Rolling Unit) shall be properly collected, treated in an ETP so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap shall be installed for treatment of workshop effluents. No wastewater shall be discharged from the washery into the | Will be complied during plant operation stage. |

HALF YEARLY COMPLIANCE REPORT (October 2016 to March 2017)

Bhelatand Washery, Dhanbad

Ref: MoEF, New Delhi Environment Clearance F. No. J-11015/235/2009-IA.II (M) dated 29th March, 2012

| Sl. No | CONDITIONS | Compliance Status |
|--------|--|---|
| | drains/natural watercourses. Storm water shall be let out through separate storm water drains and shall be tested for pH, TDS, etc and the water shall be treated to prescribe limits before discharge form the premises. | |
| xiv | Socio-economic and welfare measures for the local communities for the village Bhelatand and other adjoining villages shall be implemented under CSR and shall be not less than Rs. 1 crore per annum. Details of village-wise activities under CSR and the status of its implementation along with expenditure thereon shall be uploaded on the company website. | Will be complied |
| xv | An amount not less than Rs. 595 lakhs as capital costs and Rs 50 Lakhs/annum as revenue costs shall be utilised for environment measures in the Washery. Ash and Heavy metal content in raw coal, and washed coal shall be analysed at least once in a year and records maintained thereof. Adequate pollution control measures shall be provided to control the gaseous emissions when furnace oil is used in reheating furnace before discharging to open atmosphere through recuperator. In addition, chimney of adequate height shall be provided. Proper ventilation shall be provided to rolling mill area. | Will be complied |
| | General Conditions | |
| i | No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests. | Will be complied |
| ii | No change in calendar plan for washing the quantum of mineral coal and waste produced shall be made. | Will be complied |
| iii | Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM 10 and PM2.5, SO2, NOx 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. | Will be complied during plant commissioning phase |
| iv | Fugitive dust emissions (PM10 and PM 2.5 and heavy metals such as Hg, Pb, As, Cr, etc) from all the sources shall be controlled regularly monitored and data recorded | Will be complied during plant commissioning phase |

HALF YEARLY COMPLIANCE REPORT (October 2016 to March 2017)

Bhelatand Washery, Dhanbad

Ref: MoEF, New Delhi Environment Clearance F. No. J-11015/235/2009-IA.II (M) dated 29th March, 2012

| Sl. No | CONDITIONS | Compliance Status |
|--------|---|---|
| | property. Water spraying arrangement on haul roads wagon loading, dump trucks (loading and unloading) points shall be provided and property maintained. | |
| v | Periodic monitoring report with data on ambient air quality (PM ₁₀ and PM _{2.5} , SO ₂ , NO _x and heavy metals such as Hg, Pb, As, Cr, etc) shall be regularly submitted to the Ministry including its Regional Office at Bhubaneshwar and to the state Pollution Control Board and the Central Pollution Control Board once in six months. | Will be complied during plant commissioning phase |
| vi | Adequate measure 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. | Will be complied during plant commissioning phase |
| vii | Environmental quality shall be regularly monitored and got analysed through an Environmental laboratory established under the environment (Protection) Act, 1986. | Will be complied during plant commissioning phase |
| viii | 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. | Will be complied |
| ix | 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. | Will be complied |
| x | The funds earmarked for environmental protection measure 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 Bhubaneshwar. | Will be complied |
| xi | The Regional Office of the Ministry located at Bhubaneshwar 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. | Being Complied |

HALF YEARLY COMPLIANCE REPORT (October 2016 to March 2017)

Bhelatand Washery, Dhanbad

Ref: MoEF, New Delhi Environment Clearance F. No. J-11015/235/2009-IA.II (M) dated 29th March, 2012

| Sl. No | CONDITIONS | Compliance Status |
|--------|--|-------------------|
| xii | A copy of the clearance letter shall be marked to concerned Panchayat/ local NGO, If any, from whom any suggestion/ representation has been received while processing the proposal. | Already Complied |
| | The Project authorities shall advertise in newspapers – one national and two local 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 . The compliance status shall also be uploaded by the project authorities in their website and regularly (at six monthly) updated so as to bring the same in the public domain. The data shall also be displayed at the entrance of the project premises and mines office and in corporate office. | Being complied |