

**SIX MONTHLY REPORT ON COMPLIANCE TO ENVIRONMENTAL CLEARANCE OF 2.0 MTPA BHOJUDIH NLW
WASHERY FOR THE PERIOD FROM October'2017 to March'2018.**

Ref no - J-11015/432/2013-IA-II (M) Dated 10.08.2016)

A-SPECIFIC CONDITIONS

Sl. No.	Description of items	Compliance Status
(i)	Washery designed for Zero Liquid Discharge.	The washery installation is in process, LOA has been issued and final contract Agreement is going to be signed between preferred bidder and BCCL shortly. The washery will be constructed on Zero Discharge concept. All the used water will be recycled and will be re-utilized in the process circuit.
(ii)	Thick green belt of 30-45 meter width to be provided around the washery to mitigate/check the dust pollution. A three-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads.	Thick green belt around the washery and three tier avenue plantation along vacant areas near washery, storage yards, loading points and transfer points will be developed, when the construction of washery starts.
(iii)	Washery shall be as per Project Report submitted and presented to the EAC.	The Washery will be constructed as per presentation made to EAC and Project Report.
(iv)	Transport of Raw coal, clean coal, middling and reject by rail with wagon loading through silo.	The washery installation is in process and yet to start. This condition will be complied at the time washery operation starts.
(v)	Reject will be used in Power Generation for which JV Co. has been formed between CIL & NTPC.	The washery installation is in process and yet to start. This condition will be complied at the time when washery operation starts.
(vi)	Old Washery at Bhojudih shall be shut down on commissioning of this new Washery.	As soon as new washery will start functioning, existing old washery at Bhojudih will be shut down.
(vii)	Urgent action is required to reduce Pollution from present Washery.	No. of steps already been taken to minimize air as well as water pollution. <ul style="list-style-type: none"> I. Current washery is running in a close circuit and no waste water is discharged in the natural water bodies, water is pumped back in the flow circuit from the sedimentation ponds. II. Fixed type sprinklers installed and mobile water tankers are also used in the current washery. III. Conveyors are provided with enclosures.

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		<p>IV. Fixed water sprinkling arrangement is present at the coal receiving point.</p> <p>V. Extensive plantation has been done inside and around the current washery premises.</p>
(viii)	Waste Water shall be effectively treated and recycled completely either for washery or maintenance of green belt around the plant.	Existing washery is running on zero discharge concept. In the proposed washery, industrial effluent will be treated in a series of sedimentation pond and treated effluent will be recycled in the flow circuit of plant, leading to zero discharge from washery premises. It will be complied.
(ix)	The assurances given during the Public Hearing and as per the Action Plan developed by the proponent should be implemented.	Public hearing assurances will be complied.
(x)	Three-tier green belt should be developed along the washery boundary and along transfer and loading points and railway siding to mitigate/check dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads.	Three tier green belt along the washery boundary and along transfer and loading points and railway siding will be developed. A three tier avenue plantation along vacant areas near washery, storage yards, loading points and transfer points will also be developed.
(xi)	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.	The washery installation is yet to start. This condition will be complied when washery operation starts.
(xii)	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with mechanical sweepers.	The washery installation is yet to start. This condition will be complied at the time when washery operation starts.
(xiii)	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.	The washery installation is yet to start. This condition will be complied at the time when washery operation starts.
(xiv)	No groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse	The washery installation is yet to start. This condition will be complied at the time when

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	to the maximum extent and from rainwater harvesting measures.	washery operation starts.
(xv)	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.	This condition will be complied at the time when washery operation starts.
(xvi)	Heavy metal content in raw coal, and washed coal shall be analyzed once in a year and records maintained thereof.	This condition will be complied at the time when washery operation starts.
(xvii)	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.	This condition will be complied at the time when washery operation starts. CSR dept. of BCCL will access/ identify CSR activity in consultation with local people for needful action.
(xviii)	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	It will be complied.
(xix)	Corporate Environment Responsibility: <ul style="list-style-type: none"> i. The Company shall have a well laid down Environment Policy approved by the Board of Directors. ii. 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. iii. 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. iv. 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 	<ul style="list-style-type: none"> • The company already have a well laid down environment policy duly approved by its Board of Directors. • Agreed • Agreed • An Environment dept. at BCCL HQ looks after the infringements, deviations, violations of Environment and Forest Norms, environmental issues,

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	company and/or shareholders or stakeholders at large.	compliances etc. for all the units running in BCCL.
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B. GENERAL CONDITIONS

	Descriptions of items	Compliance
i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.	This washery will not change its technology without prior approval from MoEF & CC.
ii)	No change in the calendar plan of production for quantum of mineral coal shall be made.	It will be complied when the washery operation starts.
iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x 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.	Once the washery comes in operation, four ambient air quality stations shall be established on the core zone as well as buffer zone for the monitoring of PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x and will follow the guidelines of state pollution control board.
iv)	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂) and NO _x 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.	Will be complied as the washery operation starts.

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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.	Adequate measures will be taken as the washery operation starts depending upon the operational requirement.
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 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Will be complied once the washery operation starts. Washery construction has yet not started.
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.	It will be complied during operation.
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 analyzed through a laboratory recognized under EPA Rules. 1986.	Will be complied.
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.	It will be complied during operation.
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	It will be complied during operation.

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	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.	A separate Environment Management cell dedicated towards the implementation of well framed environmental policy of the company, will be formed at Project before the start of operation.
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.	It will be complied during operation.
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 .	Complied.
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.	Complied.
xv)	A copy of the environmental clearance letter shall he 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.	Complied.

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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 ₁₀ , PM _{2.5} , SO ₂ and NO _x (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.	Complied. For Critical sectoral parameters it shall also be displayed at the entrance of the project premises once the washery operations starts.
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.	Being Complied.
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.	Will be complied.
xix)	The Environmental statement for each financial year ending 31 March in Form – 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.	Will be complied during operation.

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Ch. Manager (CP), WCD

General Manager (WCD), BCCL.