



भारत कोकिंग कोल लिमिटेड
(कोल इण्डिया लिमिटेड की एक अनुषंगी कंपनी)
Bharat Coking Coal Limited
(A Subsidiary of Coal India Limited)
(एक मिनीरतन कंपनी / A Miniratna Company)
(भारत सरकार का उपक्रम / A Government of India Undertaking)

Ref: BCCL/ NLW PCW/2025-26/912

Date: 29.11.2025

To,
The Director,
IRO, Ranchi, MoEF&CC
Harmu, Jharkhand – 834002

**Subject – Six monthly report on Compliance of Environmental Clearance of 5.0 MTPA
Patherdih NLW Coal Washery for the period April'25 – September'25.**

Ref. – Environmental Clearance Letter no. - J-11015/240/2010-IA.II(M), Dated: 25.01.2012.

Dear Sir,

Please find enclosed herewith the six- monthly report on Compliance of Environmental Clearance for the period April'25 – September'25 in respect of 5.0 MTPA Patherdih NLW Coal Washery. We hope you will find in order.

Thanking You,

Encl: - As above.

Yours faithfully

Project Officer

5.0 MTPA Patherdih NLW Coal Washery

Copy To: -

1. The Director, 1A Monitoring Cell, Paryavaran Bhawan, CGO Complex, New Delhi- 110003. (via e-mail)
2. The Member Secretary, Jharkhand State Pollution Control Board, TA- Divison Building, Dhurwa, Ranchi – 834004. (via e-mail)
3. Scientist & Incharge, Zonal Office, CPCB, 5th Floor 502, House & Conclave, 1582, Rajdanga Main Road, Kolkata- 700107. (via e-mail)
4. General Manager (Ws), Washery Division.
5. General Manager (CP)/AGM, Washery Division.
6. General Manager (Mining/Environment), BCCL – KoylaBhawan, Dhanbad.
7. Area Manager (Environment), Washery Division.

ENVIRONMENTAL CLEARANCE COMPLIANCE OF 5.0 MTPA
PATHERDIH NLW COAL WASHERY

GRANTED VIDE EC No. J-11015/240/2010-IA.II(M), DATED: 25.01.2012

(APRIL '25 – SEPTEMBER '25)

<u>Sl. No.</u>	<u>Compliance Conditions</u>	<u>Compliance Status</u>
(A)	Specific Conditions:	
(i)	The capacity of the washery shall not exceed 6.5 MTPA without prior environment clearance from this Ministry.	Being Complied. Patherdih NLW coal washery will not exceed 6.5 MTPA capacity without prior EC from MoEF&CC. <i>(Production data of the washery since the beginning of its operation, i.e., April '2020 is enclosed in ANNEXURE-I).</i>
(ii)	Transport of raw coal from the identified mines of the company, washed coal from the washery to the steel plants in Durgapur, Bhilai and Bokaro and middling to TPPS and coal rejects to FBC based TPP shall be by rail mode only from the railway siding located within the premises.	Being Complied. Patherdih Railway Siding, located within the premises is being used for transportation of washery products.
(iii)	The entire rejects from the washery shall be fully utilized in an FBC based TPP for which open tender for operation of the FBC based TPP has been called by the proponent. The FBC based TPP shall be preferably located in or near Jharia Coalfields. The company shall enter into a long term MOU for utilization of the coal rejects from the washery within 3 months and also for utilization of fly ash generated from the FBC based TPP with a suitable company.	Being Complied. The rejects produced are being stacked separately and its disposal is carried out as per the <i>Policy for Handling & Disposal of Washery Rejects</i> prescribed by the Ministry of Coal, Govt. of India.
(iv)	As the washery is located in Jharia Coalfields, which forms a part of the Critically Polluted Area of Dhanbad, the company shall implement the mitigative measures outlined in the Environmental Action Plan for CPA-Dhanbad applicable to the project, which would be in conformity with the Environmental Action Plan prepared for Dhanbad Area to keep the levels of air quality parameters well within limits. The proponent shall implement mitigative measures such as providing water sprinkling arrangements at various transfer points and loading/unloading points, regular maintenance of vehicles used for coal transportation, periodic and regular	Being Complied. This unit is operating as per the guidelines of Environmental Action Plan for CPA- Dhanbad & takes all the mitigative measures to keep air quality parameters well within limit. The unit also arranges for dust suppression through 100 nos. of fixed sprinklers and 1 no. mobile sprinkler operated along internal roads transportation routes and all coal transfer points of conveyor belt. <i>(Photographs of fixed water sprinklers and mobile water sprinkler are enclosed in ANNEXURE-II).</i> Regular maintenance of vehicles is being done to keep minimum source emissions. Wind breakers have been installed along the

	checking of vehicles for source emission, main approach roads used for transportation of raw coal to be black topped, monitoring for particulate matter (PM ₁₀ and PM _{2.5}) and maintenance of records thereof, bag filter at suitable locations of the washery, wind shelters/wind breaks in coal stockyards (raw coal, clean coal and coal rejects), providing 3-tier green belt with native species.	boundary of the stockyard. <i>(Photographs of wind barrier installed at Rejects Stockyard are enclosed in ANNEXURE-II)</i> Green-belt with native species is being developed, 1500 saplings have been planted already and plantation drives are also carried out at regular intervals. Also, Black topped roads have been constructed. <i>(Photographs of plantation & black topped roads are enclosed in ANNEXURE-III).</i>
(v)	The proponent shall implement a plan to regularly dredge River Damodar 0.5 km upstream and 1 km length downstream of the washery free of sludge, coal fines and silt which has accumulated in the river over a period of time and dispose the wastes in an environmentally friendly manner, in consultation with the Jharkhand State Pollution Control Board.	Not Applicable. As the Patherdih NLW Coal Washery is a Zero-Liquid Discharge Unit and is nearly 3.5 KM away from Damodar River. Therefore, no sludge or coal fines deposit and siltation is being caused by the Washery in the Damodar River.
(vi)	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 raw coal, washed coal and coal wastes don not catch fire.	Being Complied. Raw Coal, Washed Coal and Coal Rejects are being stacked within stockyards fitted with wind breakers/ shields and adequate measures have been taken to ensure that stored Raw Coal, Washed Coal and Coal Rejects don't catch fire. <i>(Photographs of wind barrier installed at Rejects Stockyard are enclosed in ANNEXURE-II).</i>
(vii)	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.	Being Complied. The unit has installed high efficiency Bag Filters & Water Sprinkling system at all crushing & coal transfer points to control fugitive emissions. <i>(Photographs of bag filter and water sprinkling are enclosed in ANNEXURE-IV).</i>
(viii)	All approach roads should be black topped and all internal roads shall be black topped or concreted. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using local species shall be developed along the main roads and approach roads to the washery.	Being Complied. Black topped roads have been constructed. Presently cleaning of roads is being done manually. Avenue plantation using local species is being developed along the roads and other adequate locations within the washery premises. <i>(Photographs of plantation & black topped roads are enclosed in ANNEXURE-III).</i>
(ix)	The proponent shall maintain proper records of the ash of the ash content of raw (ROM) coal, clean coal and coal rejects of every consignment received and washed and the	Being Complied. Proper records of Ash content of Raw Coal, Clean Coal and Coal Rejects are being maintained every month and hereby enclosed in

	same shall be uploaded along with quantum of raw coal obtained and washed and dispatched every month on the company's website every month.	ANNEXURE-V.
(x)	Water for the coal washery shall be met from mine water from BCCL mines. No groundwater shall be used for the washery plant operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rain water harvesting measures. Pressure Filter and Thickener shall be installed in the washery for water recovery and reuse.	Being Complied. Water requirement for washery is being met from the nearest mines of BCCL. Additional water requirement has been obtained by recycle/ reuse and from Rain Water Harvesting measures. Rain Water Harvesting structure has been constructed in the washery. (<i>Photograph of Rain Water Harvesting structure enclosed in ANNEXURE-III</i>). Also, Thickeners have been installed at the washery for water recovery and reuse in washing operations.
(xi)	The Washery unit shall be a zero- discharge facility and no wastewater shall be discharged from the washery into the drains/ natural water courses. The Washery shall be provided with a garland drain to carry/ recycle the effluent generated from the washery operations and coal fines collected- shall be recovered from the slurry and concentrated and also sold for users. The wastewater from the washery shall be free of coal dust and particles and recycled from development and maintenance of green belt and in the plant operations.	Being Complied. As per plan, Washery is operating on Zero-Liquid Discharge concept and no waste water is being discharged from this unit. The washery has been provided with drains (installed with baffles) along the boundary and also, a kutchha catch drain has been constructed along the unloading section of the siding and Tender for the construction of RCC drain with settling tank at same place has been awarded. (<i>Photographs of drain along the unloading siding and along the boundary and Letter of Acceptance – LOA issued are enclosed in ANNEXURE-VI</i>).
(xii)	A separate storm water drain to carry water from the washery for discharge outside the premises to nallas/ streams shall be established. The storm water drains shall be regularly desilted.	Complied. A separate storm water drain installed with baffles has been constructed for discharge of storm water outside the washery premises. Also, a RCC drain with settling tank is being constructed along the unloading section of the siding in the washery.
(xiii)	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 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 for treatment of workshop effluents.	Being Complied. No effluents are discharged outside from the washery, as the washery operates on Zero-Liquid Discharge principle. Storage tank of Oil and Grease Trap has been constructed; and soon commissioning will be done after completion of ramp construction. (<i>Photographs of Storage tank of Oil and Grease Trap are enclosed in ANNEXURE-VII</i>).
(xiv)	Green belt shall be developed using local species all along the periphery of the site, along the areas such as the crushing unit and stockyard, transfer and loading points.	Being Complied. Development of Green-belt using local species in the periphery of site along the area of crushing unit, transfer and loading point, Stockyard, etc is being taken up.
(xv)	Socio-economic and welfare measures for	Being Complied.

	the local communities shall be implemented under CSR with an outlay of Rs. 2 crores and Rs. 5/T of coal as recurring expenditure. The village- wise activities undertaken and proposed and the expenditure thereon shall be displayed on the company website every year. A monitoring Cell shall be established for monitoring activities undertaken under CSR.	As per Company's policy, a monitoring Cell of the Company already exists for monitoring activities under taken under CSR. The Action Plan of CSR activities by the company for FY 2025-26 is being enclosed as ANNEXURE-VIII .
(xvi)	Levels of heavy metals such as mercury in raw coal, washed coal and rejects shall be analyzed twice in a year and records maintained thereof and furnished as part of the Compliance Report to the MoEF RO, Bhubaneswar.	Being Complied. Levels of heavy metals in Coal are analyzed periodically at regular intervals. Work has been awarded to IIT(ISM), Dhanbad; result awaited. <i>(Copy of Work Order issued is being enclosed as ANNEXURE-IX).</i>
(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 onto 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.	Being Complied. A well-defined Corporate Environment Policy has already been laid down and approved by the Board of Directors. This is also posted on BCCL website. (http://www.bcclweb.in/environment/CEP_04.11.2019.pdf) An Environment department at BCCL H.Q. looks after the infringements/ deviation/violation of Environment & Forest norms, environmental issues, and compliances, etc., for all the units running in BCCL. To implement the Corporate Environment Policy, a manual for Environment Personnel is prescribed by CIL having the proper operating procedures is as follows: https://www.coalindia.in/media/documents/Guidelines_for_Environmental_Personnel_in_Mines_20092016_hAukCHt.pdf In addition, status of Environment Management is reported to the BCCL Board every quarter. Monitoring is being done by CMPDIL. CMPDIL has a laboratory accredited by NABL.
(B) General Conditions :		
(i)	No change in technology and scope of working of the washery shall be made without prior approval of the Ministry of Environment and Forests.	Being Complied.
(ii)	Four ambient air quality monitoring stations shall be established in the core zone as well as the buffer zone for monitoring PM ₁₀ , PM _{2.5} , SO ₂ and NO _x . Locations of the stations shall be decided based on the meteorological data, topographical features	Being Complied. Four ambient air monitoring stations for monitoring of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x have been established in the core zone and buffer zone. Also, Routine Environment Monitoring is

	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, PM ₁₀ , and PM _{2.5} etc. shall be carried out at least once in six months.	being carried out fortnightly and monitoring of heavy metals is being carried out every six months by CMPDIL, which has NABL accredited laboratory. <i>(Monitoring Reports are enclosed in ANNEXURE-X).</i>
(iii)	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 EP Rules, 1986.	Being Complied. Four ambient air monitoring stations for monitoring of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x have been established in the core zone and buffer zone. Presently, CMPDIL Dhanbad is carrying out regular monitoring of environmental quality work.
(iv)	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x and heavy metals such as Hg, As, Ni, Cr, etc.) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar 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 recognized under the EP Rules, 1986 shall be furnished as part of the compliance report.	Being Complied. Four ambient air monitoring stations for monitoring of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x have been established in the core zone and buffer zone. Also, Routine Environment Monitoring is being carried out fortnightly and monitoring of heavy metals is being carried out every six months by CMPDIL having own laboratory recognized under EPA Rules, 1986. The monitoring reports are sent to the Ministry, its Regional Office, CPCB & JSPCB every six months along with the six-monthly EC 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.	Being Complied. Monitoring is being done by CMPDIL, which has NABL accredited laboratory.
(vi)	Personnel working in dusty area 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.	Being Complied. As per Safety Policy of the Company, necessary protective respiratory devices are provided to the workmen working in dusty conditions. As per Company's Policy, periodic PME of all the workmen is arranged by the company and corrective measures are taken accordingly.
(vii)	A separate environmental management cell with suitable qualified personnel shall be set up under control of a Senior Executive, who will report directly to the Head of the Company.	Being Complied. A full- fledged Environment Department, headed by a HoD (Environment) along with a suitable qualified multidisciplinary team of executives which includes Environment, Mining, Excavation, Civil, Survey, Electrical & Mechanical, Forestry discipline executives and technicians (4 nos.) has been established in BCCL Headquarters. They are also trained in ecological restoration, sustainable development, rainwater harvesting methods, etc. At the project level, one Executive in each

		Area has also been nominated as Project Nodal Officer (Environment) and is also entrusted with the responsibility of compliance and observance of the Environmental Acts/ Laws including Environment Protection measures. The activities are monitored on regular basis at Area and at Head Quarter levels. HoD (Environment) at Headquarter level coordinates with all the Areas and reports to the Director (Technical) and in turn he reports to the CMD of the company. The team is multidisciplinary and very much motivated under the guidance of company's Director (Technical) and CMD. Further capacity building. Environment Management Cell, which looks after all the matters related to the statutory compliances, has been constituted at the washery.
(viii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be delivered for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office, Bhubaneswar.	Being Complied. Funds for Environment Protection and Environment Compliance related activities are allotted in the Budget every financial year, which are kept separately under Environment Head of the Budget.
(ix)	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 & Forest at http://envfor.nic.in.	Complied. The Washery has already advertised the EC in local newspapers for wide circulation dated: 01.03.2012 in local daily newspapers Prabhat Khabar and Dainik Jagran.
(x)	A copy of the environmental clearance letter shall be marked to concerned Panchayat/ Zila Parishad/ Municipal Corporation or Urban Local Body/ 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 the company's website.	Complied. The copy of Environmental Clearance has already been made available to District Collector, local Zila Parishad, Ward Councilor, Municipal Corporation. A copy of the Environmental Clearance has also been displayed on the Company's website. A copy of the Environmental Clearance duly received by the local Ward Councilor is enclosed as ANNEXURE-XI.
(xi)	A copy of the clearance letter shall 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 Centre and Collector's Office/ Tehsildar's Office for 30 days.	Complied. The Environmental Clearance letter has already been forwarded to Jharkhand State Pollution Control Board, Regional Office, District Industry Centre and Collector's Office for doing the needful.

(xii)	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC 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 the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM ₁₀ , PM _{2.5} , SO ₂ and NO _x (ambient and stack, if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.	Being Complied. The Environmental Clearance letter has been uploaded on the Company's website. Compliance status is also regularly uploaded on the Company's website every six months. Environment Monitoring Report (Air, Water, Noise and Soil) are also displayed on the Company's website. Monitoring data of environmental quality parameters has been displayed at the project office and being updated regularly. <i>(Photograph of the display board is enclosed as ANNEXURE-XII).</i>
(xiii)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MoEF, the respective Zonal Offices of CPCB and the SPCB.	Being Complied.
(xiv)	The Regional Office of this Ministry located at Bhubaneswar 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.
(xv)	The environmental statement for each financial year ending 31 st March in Form- V is mandated to be submitted by the project proponent to 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.	Being Complied. A copy of the Environment Statement is enclosed as ANNEXURE-XIII.


29/11/2015

Project Officer
5.0 MTPA Patherdih NLW Coal Washery