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

Ref: BCCL/ NLW PCW/2025-26/229

Date: 29.05.2025

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 October'24 – March'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 October'24 – March'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, 5<sup>th</sup> 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.

**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**

**(OCTOBER'24 – MARCH'25)**

<b><u>Sl. No.</u></b>	<b><u>Compliance Conditions</u></b>	<b><u>Compliance Status</u></b>
<b>(A)</b>	<b>Specific Conditions:</b>	
(i)	The capacity of the washery shall not exceed 6.5 MTPA without prior environment clearance from this Ministry.	<b>Being Complied.</b> Patherdih NLW coal washery will not exceed 6.5 MTPA capacity without prior EC from MoEF&CC. <i>(Production data of the washery 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.	<b>Being Complied.</b> 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.	<b>Being Complied.</b> The rejects produced are being stacked separately and its disposal is carried out as per the <b><i>Policy for Handling &amp; Disposal of Washery Rejects</i></b> 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	<b>Being Complied.</b> 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 sufficient sprinkling arrangements (fixed and mobile) on roads and all coal transfer points. <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

	<p>maintenance of vehicles used for coal transportation, periodic and regular checking of vehicles for source emission, main approach roads used for transportation of raw coal to be black topped, monitoring for particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) 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.</p>	<p>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.  <i>(Photographs of plantation are enclosed in ANNEXURE-III).</i></p>
(v)	<p>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.</p>	<p><b>Not Applicable.</b>  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.</p>
(vi)	<p>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.</p>	<p><b>Being Complied.</b>  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></p>
(vii)	<p>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.</p>	<p><b>Being Complied.</b>  The unit has installed high efficiency Bag Filters &amp; Water Sprinkling system at all crushing &amp; coal transfer points to control fugitive emissions.  <i>(Photographs of bag filter and water sprinkling are enclosed in ANNEXURE-IV).</i></p>
(viii)	<p>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.</p>	<p><b>Being Complied.</b>  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 are enclosed in ANNEXURE-III).</i></p>
(ix)	<p>The proponent shall maintain proper records</p>	<p><b>Being Complied.</b></p>

	of the ash of the ash content of raw (ROM) coal, clean coal and coal rejects of every consignment received and washed and the same shall be uploaded along with quantum of raw coal obtained and washed and dispatched every month on the company's website every month.	Proper records of Ash content of Raw Coal, Clean Coal and Coal Rejects are being maintained every month and hereby enclosed in <b>ANNEXURE-V</b> .
(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.	<b>Being Complied.</b> 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. Construction of infrastructure for Rain Water Harvesting is being undertaken. 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.	<b>Being Complied.</b> 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 proposal for the construction of RCC drain with settling tank at same place is under process. <i>(Photographs of drain along the unloading siding and along the boundary 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.	<b>Complied.</b> 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. <i>(Photographs of drain along the unloading siding and along the boundary are enclosed in ANNEXURE-VI).</i>
(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 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed for treatment of workshop effluents.	<b>Being Complied.</b> 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.	<p><b>Being Complied.</b> 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. <i>(Photographs of plantation are enclosed in ANNEXURE-III).</i></p>
(xv)	Socio-economic and welfare measures for 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.	<p><b>Being Complied.</b> BCCL is implementing CSR activities at various scale. As per Company's policy, a monitoring Cell of the Company already exists for monitoring activities under taken under CSR. CSR and other welfare activities have been taken up on priority basis. The details of activities are being enclosed as ANNEXURE-XIII.</p>
(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.	<p><b>Being Complied.</b> Levels of heavy metals in Coal are analyzed periodically at regular intervals. <i>(Latest report is being enclosed as ANNEXURE-VIII).</i></p>
(xvii)	<p>Corporate Environment Responsibility:</p> <p>(a). The Company shall have a well laid down Environment Policy approved by the Board of Directors.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>	<p><b>Being Complied.</b> 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. <a href="http://www.bcclweb.in/environment/CEP_04.11.2019.pdf">http://www.bcclweb.in/environment/CEP_04.11.2019.pdf</a> An Environment department at BCCL H.Q. looks after the infringements/ deviation/violation of Environment &amp; 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: <a href="https://www.coalindia.in/media/documents/Guidelines_for_Environmental_Personnel_in_Min_es_20092016_hAukCHt.pdf">https://www.coalindia.in/media/documents/Guidelines_for_Environmental_Personnel_in_Min_es_20092016_hAukCHt.pdf</a> 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.</p>

<b>(B)</b>	<b>General Conditions :</b>	
(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.	<b>Being Complied.</b>
(ii)	Four ambient air quality monitoring stations shall be established in the core zone as well as the buffer zone for monitoring PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Locations 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, PM <sub>10</sub> , and PM <sub>2.5</sub> etc. shall be carried out at least once in six months.	<b>Being Complied.</b> Four ambient air monitoring stations for monitoring of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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, which has <b>NABL</b> accredited laboratory. <i>(Monitoring Reports are enclosed in ANNEXURE-IX).</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.	<b>Being Complied.</b> Four ambient air monitoring stations for monitoring of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> have been established in the core zone and buffer zone. Presently, CMPDIL Dhanbad is carrying out regular monitoring of environmental quality work. <i>(Monitoring Reports are enclosed in ANNEXURE-IX).</i>
(iv)	Data on ambient air quality (PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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.	<b>Being Complied.</b> Four ambient air monitoring stations for monitoring of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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.	<b>Being Complied.</b> Monitoring is being done by CMPDIL, which has <b>NABL</b> accredited laboratory. <i>(Monitoring Reports are enclosed in ANNEXURE-IX).</i>
(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.	<b>Being Complied.</b> As per Safety Policy of the Company, necessary protective respiratory devices are provided to the workmen working in dusty

	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.	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.	<b>Being Complied.</b> 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.	<b>Being Complied.</b> 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	<b>Complied.</b> 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.	<b>Complied.</b> 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 <b>ANNEXURE-X</b> .
(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.	<b>Complied.</b> 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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> (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.	<b>Being Complied.</b> 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-XI</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	<b>Being Complied.</b>

	CPCB and the SPCB.	
(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.	<b>Being Complied.</b>
(xv)	The environmental statement for each financial year ending 31 <sup>st</sup> 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.	<b>Being Complied.</b> A copy of the Environment Statement is enclosed as <b>ANNEXURE-XII.</b>

*Blunder*  
29/05/2025

**Project Officer**  
**5.0 MTPA Patherdih NLW Coal Washery**


*Pratish*

**5.0 MTPA Patherdih NLW Washery**

**Year Wise Production Report**

Year	Raw Coal Feed (in MT)	Washed Coal Produced (in MT)	Washed Power Coal Produced (in MT)	Slurry Produced (in MT)	Reject Produced (in MT)
FY 2020-2021	488413.57	58720.97	293868.06	NIL	158978.46
FY 2021-2022	1073692	125237	643893.48	NIL	332694.37
FY 2022-2023	1420056	146490	948926.73	NIL	381974.94
FY 2023-2024	1563573	158155	1130597	NIL	312353.88
FY 2024-2025	1575314	415903	925777	NIL	257499

  
28/05/2025  
Project officer

 5.0 MTPA Patherdih NLW Washery

## ANNEXURE-II

### DUST SUPPRESSION THROUGH WATER SPRINKLING BY MOBILE WATER SPRINKLER AT 5.0 MTPA PATHERDIH NLW COAL WASHERY



**DUST SUPPRESSION THROUGH WATER SPRINKLING BY FIXED-TYPE WATER SPRINKLERS AT 5.0 MTPA PATHERDIH NLW COAL WASHERY**



**WIND BARRIER INSTALLED AROUND REJECTS STOCKYARD AT 5.0 MTPA**  
**PATHERDIH NLW COAL WASHERY**



Latitude: 23.682102  
Longitude: 86.432217  
Elevation: 168.74±7 m  
Accuracy: 152.6 m

## ANNEXURE-III

### PLANTATION OF LOCAL SPECIES AROUND THE PERIPHERY OF THE WASHERY



**AVENUE PLANTATION ALONG THE ROAD IN THE WASHERY**



**SNEH- SMRITI UPVAN WITH FRUIT-BEARING PLANTS DEVELOPED  
IN THE WASHERY**



Latitude: 23.680995  
Longitude: 86.433248  
Elevation: 189.54±2 m  
Accuracy: 9.2 m



Latitude: 23.681003  
Longitude: 86.433259  
Elevation: 189.54±2 m  
Accuracy: 7.1 m



## ANNEXURE-IV

### BAG FILTER IN OPERATION AT 5.0 MTPA PATHERDIH NLW COAL WASHERY



**WATER SPRINKLING IN CONVEYOR BELT CARRYING RAW COAL AT  
5.0 MTPA PATHERDIH NLW COAL WASHERY**



**DUST SUPPRESSION ARRANGEMENT OVER THE COAL DUMP HOPPER AREA**



## 5.0 MTPA Patherdih NLW Washery Date Wise & Shift Wise Quality Test Report of Raw Coal Receipt from Rake

Name of Client		5.0 MTPA Patherdih NLW Washery BCCL								
MONTH		Jan-25								
Raw Coal (Rake)										
Date Of Sampling	Date of Preperation	Sample ID No.	Rake No	Source	TM %	ADB				
						ASH %	M %	VM %	FC %	GCV Kcal/Kg
1-Jan-25										
2-Jan-25										
3-Jan-25										
4-Jan-25										
5-Jan-25										
6-Jan-25										
7-Jan-25										
8-Jan-25										
9-Jan-25										
10-Jan-25										
11-Jan-25										
12-Jan-25										
13-Jan-25	20-Jan-25	GCEPL/LAB/E/0046	01	SOUTH BHOWRAH	3.74	32.96	1.02	20.95	45.07	5334
14-Jan-25										
15-Jan-25										
16-Jan-25	20-Jan-25	GCEPL/LAB/E/0047	02	SOUTH BHOWRAH	3.65	33.52	1.15	22.03	43.30	5268
17-Jan-25										
18-Jan-25	20-Jan-25	GCEPL/LAB/E/0048	03	SOUTH BHOWRAH	3.82	36.14	1.18	21.45	41.23	5017
18-Jan-25	20-Jan-25	GCEPL/LAB/E/0049	04	JGB-06	3.77	49.21	1.11	21.66	28.02	3763
19-Jan-25	24-Jan-25	GCEPL/LAB/E/0050	05	SOUTH BHOWRAH	3.68	38.81	1.03	20.88	39.28	4767
20-Jan-25	24-Jan-25	GCEPL/LAB/E/0051	06	SOUTH BHOWRAH	3.85	40.56	1.19	21.16	37.09	4591
20-Jan-25	24-Jan-25	GCEPL/LAB/E/0052	07	SOUTH BHOWRAH	3.64	33.03	1.22	21.63	44.12	5302
21-Jan-25	24-Jan-25	GCEPL/LAB/E/0053	08	SOUTH BHOWRAH	3.72	45.01	1.29	22.12	31.58	4175
22-Jan-25	24-Jan-25	GCEPL/LAB/E/0054	09	SOUTH BHOWRAH	3.61	38.90	1.27	20.98	38.85	4752
23-Jan-25	24-Jan-25	GCEPL/LAB/E/0055	10	SOUTH BHOWRAH	3.80	45.81	1.14	21.14	31.91	4108
24-Jan-25	28-Jan-25	GCEPL/LAB/E/0056	11	SOUTH BHOWRAH	3.85	37.48	1.12	20.77	40.63	4887
25-Jan-25	28-Jan-25	GCEPL/LAB/E/0057	12	SOUTH BHOWRAH	3.72	34.99	1.28	21.16	42.57	5123
26-Jan-25	31-Jan-25	GCEPL/LAB/E/0058	13	SOUTH BHOWRAH	3.69	37.98	1.04	19.99	40.99	4947
26-Jan-25	31-Jan-25	GCEPL/LAB/E/0059	14	JGB-06	3.88	41.78	1.11	20.74	36.37	4510
27-Jan-25	31-Jan-25	GCEPL/LAB/E/0060	15	SOUTH BHOWRAH	3.77	41.83	1.13	20.86	36.18	4490
27-Jan-25	31-Jan-25	GCEPL/LAB/E/0061	16	JGB-06	3.81	45.51	1.17	21.16	32.16	4188
28-Jan-25	31-Jan-25	GCEPL/LAB/E/0062	17	JGB-06	3.74	47.88	1.21	20.45	30.46	3954
28-Jan-25	31-Jan-25	GCEPL/LAB/E/0063	18	SOUTH BHOWRAH	3.76	37.45	1.28	21.41	39.86	4896
29-Jan-25	31-Jan-25	GCEPL/LAB/E/0064	19	SOUTH BHOWRAH	3.82	42.82	1.16	20.79	35.23	4407
29-Jan-25	31-Jan-25	GCEPL/LAB/E/0065	20	SOUTH BHOWRAH	3.70	41.34	1.24	21.07	36.35	4548
30-Jan-25	31-Jan-25	GCEPL/LAB/E/0066	21	SOUTH BHOWRAH	3.68	38.03	1.31	21.63	39.03	4856
31-Jan-25	2-Feb-25	GCEPL/LAB/E/0067	22	SOUTH BHOWRAH	3.79	39.46	1.23	20.95	38.36	4687
31-Jan-25	2-Feb-25	GCEPL/LAB/E/0068	23	SOUTH BHOWRAH	7.65	37.14	1.31	21.12	40.43	4926

## 5.0 MTPA Patherdih NLW Washery Date Wise & Shift Wise Quality Test Report of Raw Coal Receipt from Rake

Name of Client		5.0 MTPA Patherdih NLW Washery BCCL								
MONTH		Feb-25								
Raw Coal (Rake)										
Date Of Sampling	Date of Preperation	Sample ID No.	Rake No	Source	TM %	ADB				
						ASH %	M %	VM %	FC %	GCV Kcal/Kg
1-Feb-25	3-Feb-25	GCEPL/LAB/E/0069	01	BHOWRAH N&S	3.85	37.42	1.30	21.63	39.65	4898
1-Feb-25	3-Feb-25	GCEPL/LAB/E/0070	02	BHOWRAH N&S	3.64	40.54	1.28	22.12	36.06	4622
2-Feb-25	3-Feb-25	GCEPL/LAB/E/0071	03	BHOWRAH N&S	3.72	30.82	1.31	20.98	46.89	5524
2-Feb-25	3-Feb-25	GCEPL/LAB/E/0072	04	JGB-09	3.61	44.84	1.18	21.14	32.84	4210
3-Feb-25	3-Feb-25	GCEPL/LAB/E/0073	05	BHOWRAH N&S	3.84	45.81	1.12	20.87	32.20	4048
4-Feb-25	7-Feb-25	GCEPL/LAB/E/0074	06	BHOWRAH N&S	3.77	38.78	1.24	21.23	38.75	4762
4-Feb-25	7-Feb-25	GCEPL/LAB/E/0075	07	BHOWRAH N&S	3.69	31.75	1.30	22.04	44.91	5456
5-Feb-25	7-Feb-25	GCEPL/LAB/E/0076	08	BHOWRAH N&S	3.83	37.09	1.19	20.98	40.74	4938
6-Feb-25	7-Feb-25	GCEPL/LAB/E/0077	09	BHOWRAH N&S	3.88	37.87	1.14	21.84	39.15	4874
6-Feb-25	7-Feb-25	GCEPL/LAB/E/0078	10	BHOWRAH N&S	3.65	31.98	1.21	21.92	44.89	5437
7-Feb-25	9-Feb-25	GCEPL/LAB/E/0079	11	BHOWRAH N&S	3.76	38.19	1.26	21.39	39.16	4863
7-Feb-25	10-Feb-25	GCEPL/LAB/E/0080	12	BHOWRAH N&S	3.84	37.75	1.03	20.36	40.86	4882
8-Feb-25	10-Feb-25	GCEPL/LAB/E/0081	13	BHOWRAH N&S	3.68	40.60	1.14	21.04	37.22	4611
9-Feb-25	10-Feb-25	GCEPL/LAB/E/0082	14	BHOWRAH N&S	3.70	37.19	1.28	21.65	39.88	4927
9-Feb-25	12-Feb-25	GCEPL/LAB/E/0083	15	BHOWRAH N&S	3.73	38.24	1.13	20.91	39.72	4801
10-Feb-25										
11-Feb-25	16-Feb-25	GCEPL/LAB/E/0084	16	BHOWRAH N&S	3.68	45.53	1.09	21.26	32.12	4147
11-Feb-25	16-Feb-25	GCEPL/LAB/E/0085	17	BHOWRAH N&S	3.77	44.56	1.18	20.85	33.41	4240
12-Feb-25	16-Feb-25	GCEPL/LAB/E/0086	18	BHOWRAH N&S	3.82	48.26	1.20	21.15	29.39	3889
13-Feb-25	16-Feb-25	GCEPL/LAB/E/0087	19	BHOWRAH N&S	3.61	36.52	1.29	20.71	41.48	4989
14-Feb-25	16-Feb-25	GCEPL/LAB/E/0088	20	BHOWRAH N&S	3.67	45.76	1.22	21.25	31.77	4123
15-Feb-25	16-Feb-25	GCEPL/LAB/E/0089	21	BHOWRAH N&S	3.83	36.92	1.30	21.72	40.06	4952
16-Feb-25										
17-Feb-25	19-Feb-25	GCEPL/LAB/E/0090	22	BHOWRAH N&S	3.79	46.84	1.19	20.73	31.24	4020
17-Feb-25	21-Feb-25	GCEPL/LAB/E/0091	23	BHOWRAH N&S	3.80	37.79	1.21	21.16	39.84	4872
18-Feb-25	21-Feb-25	GCEPL/LAB/E/0092	24	BHOWRAH N&S	3.75	42.82	1.15	20.95	35.08	4401
19-Feb-25	21-Feb-25	GCEPL/LAB/E/0093	25	BHOWRAH N&S	3.68	45.90	1.19	21.63	31.28	4110
20-Feb-25	25-Feb-25	GCEPL/LAB/E/0094	26	BHOWRAH N&S	3.55	43.40	1.16	20.42	35.02	4346
21-Feb-25	25-Feb-25	GCEPL/LAB/E/0095	27	BHOWRAH N&S	3.26	36.32	1.12	21.05	41.51	5014
22-Feb-25	25-Feb-25	GCEPL/LAB/E/0096	28	BHOWRAH N&S	3.19	41.50	1.09	21.63	35.78	4528
23-Feb-25	25-Feb-25	GCEPL/LAB/E/0097	29	JGB-06	3.43	41.25	1.23	20.81	36.71	4547
23-Feb-25	25-Feb-25	GCEPL/LAB/E/0098	30	BHOWRAH N&S	3.49	41.87	1.18	20.73	36.22	4489
24-Feb-25	28-Feb-25	GCEPL/LAB/E/0099	31	JGB-06	3.58	46.46	1.20	20.53	31.81	4057
25-Feb-25	28-Feb-25	GCEPL/LAB/E/0100	32	BHOWRAH N&S	3.77	46.78	1.03	21.26	30.93	4032
25-Feb-25	28-Feb-25	GCEPL/LAB/E/0101	33	JGB-06	3.82	43.97	1.15	20.97	33.91	4293
26-Feb-25	28-Feb-25	GCEPL/LAB/E/0102	34	BHOWRAH N&S	3.61	48.85	1.18	21.65	28.32	3833
26-Feb-25	28-Feb-25	GCEPL/LAB/E/0103	35	JGB-06	3.67	39.92	1.13	20.42	38.53	4675
27-Feb-25	4-Mar-25	GCEPL/LAB/E/0104	36	JGB-06	3.70	44.77	1.03	20.61	33.59	4222
28-Feb-25	4-Mar-25	GCEPL/LAB/E/0105	37	BHOWRAH N&S	3.56	44.90	1.17	21.50	32.43	4205
28-Feb-25	4-Mar-25	GCEPL/LAB/E/0106	38	JGB-06	3.60	45.98	1.07	20.72	32.23	4109

## 5.0 MTPA Patherdih NLW Washery Date Wise & Shift Wise Quality Test Report of Raw Coal Receipt from Rake

<b>Name of Client</b>	<b>5.0 MTPA Patherdih NLW Washery BCCL</b>
<b>MONTH</b>	<b>Mar-25</b>

### Raw Coal (Rake)

Date Of Sampling	Date of Preperation	Sample ID No.	Rake No	Source	TM %	ADB				
						ASH %	M %	VM %	FC %	GCV Kcal/Kg
1-Mar-25	4-Mar-25	GCEPL/LAB/E/0107	01	JGB-06	3.41	47.85	1.14	20.51	30.50	3928
1-Mar-25	4-Mar-25	GCEPL/LAB/E/0108	02	JGB-06	3.52	46.54	1.18	20.70	31.58	4047
2-Mar-25	5-Mar-25	GCEPL/LAB/E/0109	03	JGB-06	3.78	49.95	1.21	19.94	28.90	3728
3-Mar-25										
4-Mar-25	5-Mar-25	GCEPL/LAB/E/0110	04	JGB-06	3.84	44.89	1.16	20.27	33.68	4206
4-Mar-25	6-Mar-25	GCEPL/LAB/E/0111	05	JGB-06	3.75	50.84	1.19	20.32	27.65	3645
5-Mar-25	6-Mar-25	GCEPL/LAB/E/0112	06	JGB-06	3.69	49.54	1.13	21.02	28.31	3769
6-Mar-25	11-Mar-25	GCEPL/LAB/E/0113	07	JGB-06	3.70	49.76	1.21	20.17	28.86	3746
6-Mar-25	11-Mar-25	GCEPL/LAB/E/0114	08	BHOWRAH N&S	3.69	42.14	1.19	19.82	36.85	4463
7-Mar-25	11-Mar-25	GCEPL/LAB/E/0115	09	JGB-06	3.53	48.31	1.12	20.30	30.27	3885
8-Mar-25	11-Mar-25	GCEPL/LAB/E/0116	10	JGB-06	3.66	52.48	1.16	20.47	25.89	3492
8-Mar-25	11-Mar-25	GCEPL/LAB/E/0117	11	JGB-06	3.79	51.08	1.22	19.92	27.78	3625
8-Mar-25	11-Mar-25	GCEPL/LAB/E/0118	12	JGB-06	3.53	52.80	1.18	20.41	25.61	3459
9-Mar-25	11-Mar-25	GCEPL/LAB/E/0119	13	JGB-06	3.58	51.86	1.15	20.03	26.96	3553
9-Mar-25	12-Mar-25	GCEPL/LAB/E/0120	14	JGB-06	3.81	46.45	1.20	19.60	32.75	3938
10-Mar-25	12-Mar-25	GCEPL/LAB/E/0121	15	JGB-09	3.63	53.05	1.17	20.07	25.71	3422
11-Mar-25	12-Mar-25	GCEPL/LAB/E/0122	16	JGB-09	3.59	51.58	1.21	19.42	27.79	3574
11-Mar-25	16-Mar-25	GCEPL/LAB/E/0123	17	JGB-06	3.48	49.83	1.17	19.66	29.34	3742
12-Mar-25	16-Mar-25	GCEPL/LAB/E/0124	18	JGB-09	3.51	49.28	1.13	20.13	29.46	3792
12-Mar-25	16-Mar-25	GCEPL/LAB/E/0125	19	JGB-06	3.66	50.65	1.22	19.81	28.32	3667
13-Mar-25	16-Mar-25	GCEPL/LAB/E/0126	20	JGB-06	3.60	50.34	1.19	19.56	28.91	3692
14-Mar-25	16-Mar-25	GCEPL/LAB/E/0127	21	JGB-06	3.53	44.98	1.08	19.75	34.19	4195
14-Mar-25	16-Mar-25	GCEPL/LAB/E/0128	22	JGB-06	3.45	48.76	1.20	19.84	30.20	3837
15-Mar-25	18-Mar-25	GCEPL/LAB/E/0129	23	JGB-06	3.72	52.44	1.18	19.30	27.08	3495
16-Mar-25	22-Mar-25	GCEPL/LAB/E/0130	24	JGB-09	3.69	50.47	1.23	19.42	28.88	3678
17-Mar-25	22-Mar-25	GCEPL/LAB/E/0131	25	JGB-06	3.81	51.35	1.09	19.27	28.29	3609
17-Mar-25	22-Mar-25	GCEPL/LAB/E/0132	26	JGB-09	3.73	51.91	1.15	19.31	27.63	3546
18-Mar-25	22-Mar-25	GCEPL/LAB/E/0133	27	JGB-06	3.55	49.68	1.14	19.63	29.55	3756
18-Mar-25	22-Mar-25	GCEPL/LAB/E/0134	28	JGB-06	3.65	53.17	1.16	19.52	26.15	3426
19-Mar-25	22-Mar-25	GCEPL/LAB/E/0135	29	JGB-09	3.77	49.42	1.21	19.66	29.71	3778
20-Mar-25	22-Mar-25	GCEPL/LAB/E/0136	30	JGB-06	3.67	51.36	1.17	19.50	27.97	3596
20-Mar-25	22-Mar-25	GCEPL/LAB/E/0137	31	JGB-06	3.86	48.44	1.24	18.77	31.55	3869
21-Mar-25	22-Mar-25	GCEPL/LAB/E/0138	32	JGB-06	3.68	48.65	1.22	19.08	31.05	3833

22-Mar-25										
23-Mar-25	27-Mar-25	GCEPL/LAB/E/0139	33	JGB-06	3.57	44.70	1.20	19.11	34.99	4225
23-Mar-25	27-Mar-25	GCEPL/LAB/E/0140	34	JGB-06	3.72	52.55	1.19	19.20	27.06	3478
23-Mar-25	27-Mar-25	GCEPL/LAB/E/0141	35	JGB-06	3.60	47.35	1.08	19.26	32.31	3981
24-Mar-25										
25-Mar-25	27-Mar-25	GCEPL/LAB/E/0142	36	JGB-06	3.66	50.05	1.23	18.93	29.79	3718
25-Mar-25	27-Mar-25	GCEPL/LAB/E/0143	37	JGB-06	3.75	50.22	1.17	19.05	29.56	3693
26-Mar-25	27-Mar-25	GCEPL/LAB/E/0144	38	JGB-06	3.58	48.07	1.13	18.76	32.04	3906
27-Mar-25										
28-Mar-25	31-Mar-25	GCEPL/LAB/E/0145	39	JGB-06	3.61	50.41	1.15	19.11	29.33	3688
29-Mar-25	1-Apr-25	GCEPL/LAB/E/0146	40	JGB-06	3.55	53.77	1.07	19.20	25.96	3365
30-Mar-25	1-Apr-25	GCEPL/LAB/E/0147	41	JGB-06	3.49	49.60	1.16	18.92	30.32	3762
30-Mar-25	1-Apr-25	GCEPL/LAB/E/0148	42	JGB-06	3.67	52.85	1.18	18.77	27.20	3456
31-Mar-25	1-Apr-25	GCEPL/LAB/E/0149	43	JGB-06	3.72	53.96	1.20	19.35	25.49	3342

## ANNEXURE-VI

### DRAIN ALONG THE UNLOADING-SECTION OF THE SIDING AT 5.0 MTPA PATHERDIH NLW COAL WASHERY



**DRAIN ALONG THE BOUNDARY WALL AT 5.0 MTPA PATHERDIH  
NLW COAL WASHERY**



## ANNEXURE-VII

### OIL & GREASE TRAP AT 5.0 MTPA PATHERDIH NLW COAL WASHERY





ईधन, खनिज एवं धातुकर्म अभियांत्रिकी विभाग,  
भारतीय प्रोद्योगिकी संसथान (भारतीय खनि विद्यापीठ), धनबाद ८२६००४  
Department of Fuel, Minerals and Metallurgical Engineering,  
Indian Institute of Technology (Indian School of Mines), Dhanbad 826004

Date: 25/11/2024

No. FMME/PKJ/BCCL/NLW PCW /HMA/2024/01

To,

Project Officer

5.0 MTPA Patherdih NLW Washery

BCCL Dhanbad

Your Ref: BCCL/WD/ NLW-PCW/2024-25/929 Dated 23.07.2024 and

PO No: 5700348500 Dated 12.09.2024

This is in reference to your letter reference as mentioned. Please find below the results of heavy metal analysis.

Sl. No.	Sample Code	Cr (%)	Mn (%)	Fe (%)	Ni (%)	Cu (%)	Zn (%)	Cd (%)	Pb (%)	As (%)	Hg (%)
1	Washed Coal	0.0019	0.011	0.71	0.00051	0.0129	0.00461	0.00012	0.0012	0.0012	ND
2	Raw coal	0.0032	0.034	1.98	0.00062	0.0059	0.00830	0.00020	0.0027	0.0011	ND
3	Washed Power coal	0.0041	0.042	2.57	0.00073	0.0051	0.00950	0.00025	0.0029	0.0026	ND

\* Not Detected



Best Regards

(Dr. Pankaj Kumar Jain)


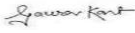

Assistant Professor

Fuel Minerals and Metallurgical Engineering

IIT (ISM) Dhanbad

  <b>central mine planning and design institute limited</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Air Quality Test Report</b>										CMPDI, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in	
Test Report for Ambient Air Samples											
Month & Year		10/2024	Cluster		Misc.	ULR No.		TC1012224000001274F			
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)					Date of Issue		31.12.2024		
Project		Patherdih Washery :Industrial Area		Sample Ref. No.		REM/BCCL/2024 /10	Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)		
Date of Sampling		04.10.2024		17.10.2024	Period of Analysis		04.10.2024	17.10.2024	Zone of Station:		CORE ZONE
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E)	NAAQS, 2009			
			1st FN A2771	2nd FN A2846							
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	126	134	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100			
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	67	72	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60			
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80			
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	30	31	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80			

\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,



 <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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**Note:** The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env) , CMPDI, RI-II.

---- End of Report ----  
Page -1 of 1

Month & Year		10/2024	Cluster		Misc.	ULR No.		TC101222400001308F			
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)					Date of Issue		31.12.2024		
Project		Sample Ref. No.		REM/BCCL/2024/10		Sampling Method		CMPDI/RI-II/LPM 22			
Sampling Stations		i	Pathardih Washery		Date of Sampling		04.10.2024	17.10.2024	Zone Category of Station:		CORE ZONE
Sl. No.	Parameter	Hour / Time of day	Observed Values (in Leq dB(A))		Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards			
			First Fortnight	Second Fortnight				Zones	Limits in dB		
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	41.5	42	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50		
2		07:00 - 08:00	43.8	47.8							
3		08:00 - 09:00	44.8	48.9							
4		09:00 - 10:00	45.6	44.1							
5		10:00 - 11:00	46.2	48.8							
6		11:00 - 12:00	49.4	49.3							
7		12:00 - 13:00	49.4	49.4							
8		13:00 - 14:00	48.9	49.4							
9		14:00 - 15:00	49	48.9							
10		15:00 - 16:00	48.4	47.3							
11		16:00 - 17:00	47.5	46							
12		17:00 - 18:00	47.3	43.6							
13		18:00 - 19:00	47	45.8							
14		19:00 - 20:00	46.5	46.1							
15		20:00 - 21:00	45.6	46.9							
16		21:00 - 22:00	45.6	46.5							
		<b>Leq Day</b>	<b>47.1</b>	<b>47.4</b>							
1	Noise Level dB(A)Leq -Night	22:00-23:00	47.7	47.9	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50		
2		23:00- 00:00	46.7	47							
3		00:00- 01:00	46.4	47							
4		01:00-02:00	46.1	46.4							
5		02:00-03:00	45.8	47							
6		03:00-04:00	45.5	45.7							
7		04:00-05:00	45.1	45.7							
8		05:00-06:00	46	46.4							
		<b>Leq Night</b>	<b>46.2</b>	<b>46.7</b>							

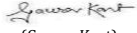

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit

Sampling Assistants <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
Note: The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env), CMPDI, RI-II.		
---- End of Report ----		
Page -1 of 1		

  <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Air Quality Test Report</b>										CMPDI, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in	
Test Report for Ambient Air Samples											
Month & Year		11/2024	Cluster		Misc.	ULR No.					
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)					Date of Issue		16.01.2025		
Project		Patherdih Washery :Industrial Area		Sample Ref. No.	REM/BCCL/2024 /11	Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)			
Date of Sampling		05.11.2024		17.11.2024	Period of Analysis	05.11.2024	26.12.2024	Zone of Station:		CORE ZONE	
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )	NAAQS, 2009			
			1st FN A2934	2nd FN A3004							
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	139	148	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100			
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	69	72	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60			
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	12	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80			
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	29	27	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80			
**All units are in $\mu\text{g}/\text{m}^3$ , 24 hourly Average, * LDL indicates Lower Detection Limit,											
 <b>ANALYSED BY</b>			 (Gaurav Kant) <b>REVIEWED BY</b>			 (Amit Raj Mishra) <b>Authorised Signatory</b>					
<b>Note:</b> The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env) , CMPDI, RI-II.											
--- End of Report --- Page -1 of 1											

Month & Year	11/2024	Cluster	Misc.	ULR No.					
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)			Date of Issue	16.01.2025				
Project		Sample Ref. No.	REM/BCCL/2024/11	Sampling Method	CMPDI/RI-II/LPM 22				
Sampling Stations	i	Pathardih Washery		Date of Sampling	05.11.2024 17.11.2024				
Sl. No.	Parameter	Hour / Time of day	Observed Values (in Leq dB(A)) First Fortnight	Observed Values (in Leq dB(A)) Second Fortnight	Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards	
								Zones	Limits in dB
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	46.8	47.3	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50
2		07:00 - 08:00	49.3	53.8					
3		08:00 - 09:00	50.6	55.2					
4		09:00 - 10:00	51.3	49.7					
5		10:00 - 11:00	52.1	55.1					
6		11:00 - 12:00	55.7	55.6					
7		12:00 - 13:00	55.7	55.7					
8		13:00 - 14:00	55.2	55.7					
9		14:00 - 15:00	55.3	55.2					
10		15:00 - 16:00	54.6	53.4					
11		16:00 - 17:00	53.5	51.9					
12		17:00 - 18:00	53.4	49.1					
13		18:00 - 19:00	53	51.7					
14		19:00 - 20:00	52.5	52					
15		20:00 - 21:00	51.3	52.9					
16		21:00 - 22:00	51.4	52.5					
		<b>Leq Day</b>	<b>53.2</b>	<b>53.5</b>					
1	Noise Level dB(A)Leq -Night	22:00-23:00	48.1	48.3	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
2		23:00-00:00	47	47.3					
3		00:00- 01:00	46.7	47.3					
4		01:00-02:00	46.4	46.7					
5		02:00-03:00	46.1	47.3					
6		03:00-04:00	45.8	46					
7		04:00-05:00	45.4	46					
8		05:00-06:00	46.3	46.7					
		<b>Leq Night</b>	<b>46.5</b>	<b>47.0</b>					

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit




Sampling Assistants <b>ANALYSED BY</b>  (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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Month & Year		12/2024	Cluster	Misc.	ULR No.		TC1012224000001378F		
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)			Date of Issue		27.01.2025		
Project		Patherdih Washery :Industrial Area	Sample Ref. No.	REM/BCCL/2024 /12	Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)		
Date of Sampling		06.12.2024	27.12.2024	Period of Analysis	06.12.2024	25.01.2025	Zone of Station:		CORE ZONE
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )	NAAQS, 2009	
			1st FN A3104	2nd FN A3220					
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	127	119	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100	
2	PM <sub>2.5</sub>	IS-5182(Part 24):2019	76	65	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60	
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80	
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	29	33	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80	

\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,



 <b>ANALYSED BY</b>	 <b>REVIEWED BY</b> (Gaurav Kant)	 <b>Authorised Signatory</b> (Amit Raj Mishra)
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Month & Year	12/2024	Cluster	Misc.	ULR No.	TC1012224000001412F				
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)			Date of Issue	27.01.2025				
Project		Sample Ref. No.	REM/BCCL/2024/12	Sampling Method	CMPDI/RI-II/LPM 22				
Sampling Stations	i	Pathardih Washery		Date of Sampling	06.12.2024    27.12.2024				
Sl. No.	Parameter	Hour / Time of day	Observed Values (in Leq dB(A)) First Fortnight	Observed Values (in Leq dB(A)) Second Fortnight	Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards	
								Zones	Limits in dB
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	45.6	46.1	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50
2		07:00 - 08:00	48	52.5					
3		08:00 - 09:00	49.2	53.7					
4		09:00 - 10:00	49.9	48.4					
5		10:00 - 11:00	50.8	53.5					
6		11:00 - 12:00	54.3	54.2					
7		12:00 - 13:00	54.3	54.3					
8		13:00 - 14:00	53.7	54.3					
9		14:00 - 15:00	53.8	53.7					
10		15:00 - 16:00	53.1	52					
11		16:00 - 17:00	52.2	50.6					
12		17:00 - 18:00	52	47.8					
13		18:00 - 19:00	51.5	50.4					
14		19:00 - 20:00	51.1	50.7					
15		20:00 - 21:00	49.9	51.4					
16		21:00 - 22:00	50	51.1					
		<b>Leq Day</b>	51.8	52.1					
1	Noise Level dB(A)Leq -Night	22:00-23:00	44.9	47	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
2		23:00- 00:00	39.5	39.7					
3		00:00- 01:00	39.2	39.7					
4		01:00-02:00	38.9	39.2					
5		02:00-03:00	38.7	39.7					
6		03:00-04:00	42.8	43					
7		04:00-05:00	42.5	43					
8		05:00-06:00	42.3	42.7					
		<b>Leq Night</b>	39.9	40.3					

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit


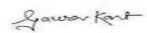

Sampling Assistants <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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  <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Air Quality Test Report</b>										CMPDI, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in	
Test Report for Ambient Air Samples											
Month & Year		01/2025	Cluster			Misc.			ULR No.		TC101222400001432F
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)						Date of Issue		18.02.2025	
Project		Patherdih Washery :Industrial Area		Sample Ref. No.		REM/BCCL/2025 /01	Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)		
Date of Sampling		15.01.2025		28.01.2025	Period of Analysis		15.01.2025	15.02.2025	Zone of Station:		CORE ZONE
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )		NAAQS, 2009		
			1st FN A3302	2nd FN A3368							
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	121	108	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300		100		
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	73	62	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified		60		
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss		80		
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	33	31	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120		80		

\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,



 <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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Month & Year		01/2025	Cluster		Misc.	ULR No.		TC1012224000001466F	
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)				Date of Issue		18.02.2025	
Project		Sample Ref. No.		REM/BCCL/2025/01		Sampling Method		CMPDI/RI-II/LPM 22	
Sampling Stations		i		Pathardih Washery		Date of Sampling		15.01.2025    28.01.2025	
				Zone Category of Station:				CORE ZONE	
Sl. No.	Parameter	Hour / Time of day	Observed Values ( in Leq dB(A) )		Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards	
			First Fortnight	Second Fortnight				Zones	Limits in dB
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	44.5	45	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50
2		07:00 - 08:00	46.9	51.2					
3		08:00 - 09:00	48	52.4					
4		09:00 - 10:00	48.8	47.2					
5		10:00 - 11:00	49.5	52.3					
6		11:00 - 12:00	52.9	52.8					
7		12:00 - 13:00	52.9	52.9					
8		13:00 - 14:00	52.4	52.9					
9		14:00 - 15:00	52.5	52.4					
10		15:00 - 16:00	51.9	50.7					
11		16:00 - 17:00	50.9	49.3					
12		17:00 - 18:00	50.7	46.7					
13		18:00 - 19:00	50.3	49.1					
14		19:00 - 20:00	49.9	49.4					
15		20:00 - 21:00	48.8	50.2					
16		21:00 - 22:00	48.9	49.9					
		<b>Leq Day</b>	<b>50.5</b>	<b>50.8</b>					
1	Noise Level dB(A)Leq -Night	22:00-23:00	46.7	46.9	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
2		23:00- 00:00	45.6	45.9					
3		00:00- 01:00	45.3	45.9					
4		01:00-02:00	45.1	45.3					
5		02:00-03:00	44.8	45.9					
6		03:00-04:00	44.5	44.7					
7		04:00-05:00	44.1	44.7					
8		05:00-06:00	45	45.3					
		<b>Leq Night</b>	<b>45.2</b>	<b>45.6</b>					

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit


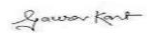

Sampling Assistants <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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  <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Air Quality Test Report</b>										CMPDI, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in	
Test Report for Ambient Air Samples											
Month & Year		02/2025	Cluster		Misc.	ULR No.		TC143212500001548F			
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)				Date of Issue		04.03.2025			
Project		Patherdih Washery :Industrial Area	Sample Ref. No.	REM/BCCL/2025 /02	Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)				
Date of Sampling		11.02.25	25.02.25	Period of Analysis	11.02.25	03.03.2025	Zone of Station:		CORE ZONE		
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )	NAAQS, 2009			
			1st FN A3435	2nd FN A3515							
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	127	111	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100			
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	64	61	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60			
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80			
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	30	29	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80			

\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,

 <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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**CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED**  
**Environment Laboratory, Regional Institute-II**  
**Ambient Noise Level Test Report**

CMPDI, RI-II  
 KOYLA BHAWAN COMPLEX  
 DHANBAD. -826005  
 Phone:0326-223-850  
 email: rdri2cmpdi@coalindia.in

Month & Year	02/2025	Cluster	Misc.	ULR No.	TC1432125000001582F				
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)			Date of Issue	04.03.2025				
Project		Sample Ref. No.	REM/BCCL/2025/02	Sampling Method	CMPDI/RI-II/LPM 22				
Sampling Stations	i	Pathardih Washery		Date of Sampling	11.02.25    25.02.25    Zone Category of Station: CORE ZONE				
Sl. No.	Parameter	Hour / Time of day	Observed Values ( in Leq dB(A) ) First Fortnight	Observed Values ( in Leq dB(A) ) Second Fortnight	Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards	
								Zones	Limits in dB
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	42.6	43.1	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50
2		07:00 - 08:00	45	49.1					
3		08:00 - 09:00	46	50.2					
4		09:00 - 10:00	46.7	45.3					
5		10:00 - 11:00	47.5	50.1					
6		11:00 - 12:00	50.8	50.7					
7		12:00 - 13:00	50.8	50.8					
8		13:00 - 14:00	50.2	50.8					
9		14:00 - 15:00	50.3	50.2					
10		15:00 - 16:00	49.7	48.6					
11		16:00 - 17:00	48.8	47.3					
12		17:00 - 18:00	48.6	44.8					
13		18:00 - 19:00	48.2	47.1					
14		19:00 - 20:00	47.9	47.4					
15		20:00 - 21:00	46.7	48.2					
16		21:00 - 22:00	46.8	47.9					
		<b>Leq Day</b>	<b>48.4</b>	<b>48.7</b>					
1	Noise Level dB(A)Leq -Night	22:00-23:00	48.9	49	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
2		23:00- 00:00	47.7	48					
3		00:00- 01:00	47.4	48					
4		01:00-02:00	47.1	47.4					
5		02:00-03:00	46.8	48					
6		03:00-04:00	46.5	46.7					
7		04:00-05:00	46.1	46.7					
8		05:00-06:00	47	47.4					
		<b>Leq Night</b>	<b>47.3</b>	<b>47.7</b>					

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit

Sampling Assistants  
**ANALYSED BY**

*Gaurav Kant*  
 (Gaurav Kant)  
**REVIEWED BY**

*Amit Raj Mishra*  
 (Amit Raj Mishra)  
**Authorised Signatory**



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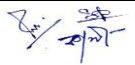
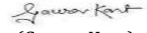

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JOB NO. 200316028

Miscellaneous, BCCL Environmental Monitoring Report

  <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Air Quality Test Report</b>										CMPDI, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in					
Test Report for Ambient Air Samples															
Month & Year		03/2025		Cluster				Misc.		ULR No.		TC1012225000001686F			
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)						Date of Issue		30.04.2025					
Project		Patherdih Washery :Industrial Area		Sample Ref. No.		REM/BCCL/2025 /03		Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)					
Date of Sampling		11.03.25		25.03.25		Period of Analysis		11.03.25		25.04.25		Zone of Station:		CORE ZONE	
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )		NAAQS, 2009						
			1st FN A3597	2nd FN A3665											
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	132	115	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300		100						
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	70	63	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified		60						
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss		80						
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	22	32	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120		80						

*\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,*



 <b>ANALYSED BY</b>	 <b>REVIEWED BY</b>	 <b>Authorised Signatory</b>
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**Note:** The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env) , CMPDI, RI-II.

---- End of Report ----  
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Month & Year	03/2025	Cluster	Misc.	ULR No.	TC1012225000001720F				
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)			Date of Issue	25.04.2025				
Project		Sample Ref. No.	REM/BCCL/2025/03	Sampling Method	CMPDI/RI-II/LPM 22				
Sampling Stations	i	Pathardih Washery		Date of Sampling	11.03.25    25.03.25    Zone Category of Station: CORE ZONE				
Sl. No.	Parameter	Hour / Time of day	Observed Values ( in Leq dB(A) ) First Fortnight	Observed Values ( in Leq dB(A) ) Second Fortnight	Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards	
								Zones	Limits in dB
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	44.2	44.7	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50
2		07:00 - 08:00	46.6	50.9					
3		08:00 - 09:00	47.7	52					
4		09:00 - 10:00	48.4	47					
5		10:00 - 11:00	49.2	51.9					
6		11:00 - 12:00	52.7	52.6					
7		12:00 - 13:00	52.7	52.7					
8		13:00 - 14:00	52	52.7					
9		14:00 - 15:00	52.1	52					
10		15:00 - 16:00	51.5	50.4					
11		16:00 - 17:00	50.6	49					
12		17:00 - 18:00	50.4	46.4					
13		18:00 - 19:00	50	48.8					
14		19:00 - 20:00	49.6	49.1					
15		20:00 - 21:00	48.4	50					
16		21:00 - 22:00	48.5	49.6					
		<b>Leq Day</b>	<b>50.2</b>	<b>50.5</b>					
1	Noise Level dB(A)Leq -Night	22:00-23:00	50.3	50.4	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
2		23:00- 00:00	49.1	49.4					
3		00:00- 01:00	48.8	49.4					
4		01:00-02:00	48.5	48.8					
5		02:00-03:00	48.1	49.4					
6		03:00-04:00	47.8	48					
7		04:00-05:00	47.4	48					
8		05:00-06:00	48.4	48.8					
		<b>Leq Night</b>	<b>48.6</b>	<b>49.1</b>					

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit

Sampling Assistants <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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*Note: The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env), CMPDI, RI-II.*

---- End of Report ----  
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**FOR COMPANY USE ONLY RESTRICTED**

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / GOVERNMENT.

**TRACE METAL CONCENTRATION OF  
AMBIENT AIR QUALITY REPORT  
OF  
BHARAT COKING COAL LIMITED,  
(FOR THE HALF YEAR ENDING, DECEMBER, 2024)**



**CMPDI**

ISO 9001 Company  
**Regional Institute-II**  
**Dhanbad, Jharkhand**

# EXECUTIVE SUMMARY

## 1.0 Introduction

The purpose of environmental monitoring is to assess the quality of various attributes that affects the environment around us. In accordance with the quality of these attributes appropriate strategy is to be developed to control the pollution level within the permissible limits. One of these major attributes is water.

Bharat Coking Coal Limited (BCCL), a Subsidiary company of Coal India Limited is operating Underground and Opencast Mines in Jharia Coalfield (JCF) is a part of Gondwana Coalfields located in Dhanbad district of Jharkhand, the JCF is bounded by 23°37' N to 23°52' N latitudes and 86°09' E to 86°30' E longitude occupying an area of 450 Sq.km. BCCL has awarded Environmental monitoring work of Jharia Coalfield (JCF) to Central Mine Planning & Design Institute Limited (CMPDIL). The environmental monitoring has been carried out as per the conditions laid down by the MoEF&CC while granting environmental clearance of project, consent letter issued by the respective SPCB, and other statutory requirements.

## 2.0 Sampling location and rationale

### 2.1 Ambient air sampling locations

The ambient air quality monitoring stations were selected to represent core, buffer zone area. The rationale has been based on the guidelines stipulated by MoEF&CC, consent letter of SPCB, as well as other statutory requirements.

## 3.0 Methodology of sampling and analysis

### 3.1 Heavy Metal in Ambient Air

Parameters chosen for assessment of Heavy metal in Ambient Air Quality were Cadmium (Cd), Mercury (Hg), Arsenic (As), Chromium (Cr), Nickel (Ni), and Lead (Pb). Respirable Dust Samplers (RDS) were used for sampling these heavy metals on EPM filter paper. These heavy metals are analyzed regularly on half yearly basis. The samples were analyzed in Environment Laboratory of CMPDI, RI-II, Dhanbad.

## 4.0 Results and interpretations

### 4.1 Heavy Metal in Ambient Air

The results of Heavy metal in Ambient Air Quality are presented in tabular form for each monitoring station. The concentration of heavy metals in ambient air is well within the permissible limit.

# CHAPTER - I

## INTRODUCTION

- 1.0 Any industry and development activities including coal mining is bound to affect environmental attributes. There are positive as well as negative impacts of such operations. For controlling the adverse impacts a regular monitoring is essential. The environmental monitoring is being done as per the guidelines stipulated by Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India.

The very purpose of environmental monitoring is to assess the quality of various attributes which affects the environment. As per quality of these attributes appropriate strategy is to be developed to control the pollution level within the permissible limits. The three major attributes are air, water and noise level.

Bharat Coking Coal Limited (BCCL), a subsidiary company of Coal India Limited (CIL) is operating UG Mines and Opencast Mines in Jharia Coalfield (JCF). The Jharia Coalfield (JCF) having an area of 450 Sq.KM.

Bharat Coking Coal has awarded Environmental Monitoring work of all Projects, Cluster wise, to Central Mine Planning & Design Institute Limited (CMPDIL). The environmental monitoring has been carried out as per conditions laid down by MoEF&CC while granting environmental clearance to different projects. CMPDI has trained manpower and well equipped laboratory to carry out monitoring, analysis and R&D work in the field of environment.

In compliance of these conditions the Environmental Monitoring has been carried out & report prepared for submission to MoEF&CC & JSPCB and other statutory authorities.

## CHAPTER – II

### AMBIENT AIR QUALITY MONITORING

#### 2.1 Results and interpretations

The results of Heavy metal in Ambient Air Quality are presented in tabular form for each monitoring station. The concentration of heavy metals in ambient air is well within the permissible limit.

#### TRACE METAL CONCENTRATION IN AMBIENT AIR QUALITY

Name of the Company: **Bharat Coking Coal Limited**

Year : **2024-25.**

PERIOD: **HALF YEAR ENDING DEC. 24**

#### HEAVY METAL ANALYSIS REPORT OF AMBIENT AIR QUALITY

SAMPLE CODE	DATE	Station Name	Cd CONC. IN $\mu\text{g}/\text{m}^3$	Hg CONC. IN $\mu\text{g}/\text{m}^3$	As CONC. IN $\text{ng}/\text{m}^3$	Cr CONC. IN $\mu\text{g}/\text{m}^3$	Ni CONC. IN $\text{ng}/\text{m}^3$	Pb CONC. IN $\mu\text{g}/\text{m}^3$
A1	16.11.2024	Karmatand Village	<0.001	<0.001	<1.0	<0.01	3.06	0.007
A2	17.11.2024	Damoda	<0.001	<0.001	<1.0	<0.01	2.34	<0.005
A3	26.11.2024	Madhuband Washery	<0.001	0.001	<1.0	<0.01	<2.0	<0.005
A4	17.11.2024	Block-II	<0.001	<0.001	<1.0	<0.01	2.01	0.011
A5	30.11.2024	Muraidih	<0.001	<0.001	<1.0	<0.01	4.16	<0.005
A6	23.11.2024	Block-IV	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A7	23.11.2024	Govindpur/Ramkanali	<0.001	<0.001	<1.0	<0.01	<2.0	0.035
A8	25.11.2024	Nichitpur	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A9	25.11.2024	East Basseriya	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A10	23.11.2024	Dhansar/Kusunda	<0.001	<0.001	<1.0	<0.01	<2.0	0.005
A11	23.11.2024	Dobari	<0.001	<0.001	<1.0	<0.01	<2.0	0.010
A12	29.11.2024	Kusmatand Village	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A13	28.11.2024	Jeenagora	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A14	16.11.2024	Bhowrah North	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A15	16.11.2024	Sudamdih Washery	<0.001	0.002	<1.0	<0.01	<2.0	0.045
A16	16.11.2024	Pootki	<0.001	<0.001	<1.0	<0.01	<2.0	0.013
A17	29.11.2024	Moonidih UGP	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A18	25.11.2024	Rudih Basti	<0.001	<0.001	<1.0	<0.01	<2.0	0.010
A19	26.11.2024	Murlidih 20/21	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A20	22.11.2024	Lohapatti	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A21	22.11.2024	Kharkharee	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005

SAMPLE CODE	DATE	Station Name	Cd CONC. IN $\mu\text{g}/\text{m}^3$	Hg CONC. IN $\mu\text{g}/\text{m}^3$	As CONC. IN $\text{ng}/\text{m}^3$	Cr CONC. IN $\mu\text{g}/\text{m}^3$	Ni CONC. IN $\text{ng}/\text{m}^3$	Pb CONC. IN $\mu\text{g}/\text{m}^3$
A22	27.11.2024	Dahibari	<0.001	<0.001	<1.0	<0.01	<2.0	0.016
A23	27.11.2024	Basantimata	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A24	28.11.2024	Gopinathpur	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A25	28.11.2024	Guliardih	<0.001	<0.001	<1.0	<0.01	<2.0	0.009
A26	25.11.2024	Begunia	<0.001	<0.001	<1.0	<0.01	3.26	0.010
A27	25.11.2024	Damagoria	<0.001	<0.001	<1.0	<0.01	2.22	0.036
A28	16.11.2024	Hurriladih	<0.001	<0.001	<1.0	<0.01	<2.0	0.006
A29	30.11.2024	Moonidih Washery	<0.001	0.003	<1.0	<0.01	<2.0	<0.005
A30	17.11.2024	Sitanala	<0.001	<0.001	<1.0	<0.01	<2.0	0.048
A31	27.11.2024	Dumarda	<0.001	<0.001	<1.0	<0.01	<2.0	0.005
A32	29.11.2024	Telmacho Bridge	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A33	30.11.2024	Madhuband UGP	<0.001	0.005	<1.0	<0.01	<2.0	<0.005
A34	30.11.2024	Bhojudih Washery	<0.001	0.02	<1.0	<0.01	<2.0	0.049
A35	16.11.2024	Dugda Washery	<0.001	0.003	<1.0	<0.01	<2.0	0.016
A36	30.11.2024	Mahuda	<0.001	0.001	<1.0	<0.01	<2.0	<0.005
A37	23.11.2024	Katras Choitudih	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A38	23.11.2024	Sinidih Workshop	<0.001	<0.001	<1.0	<0.01	<2.0	0.009
A39	17.11.2024	Patherdih	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A40	22.11.2024	Koyla Nagar	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A41	17.11.2024	Sudamdih Shaft	<0.001	<0.001	<1.0	<0.01	<2.0	0.024
A42	29.11.2024	RHB	<0.001	<0.001	<1.0	<0.01	2.56	0.017
A43	16.11.2024	Pandwabhita	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005
A44	17.11.2024	Sadariadih	<0.001	<0.001	<1.0	<0.01	<2.0	0.007
A45	30.11.2024	Bhojudih Buffer	<0.001	<0.001	<1.0	<0.01	2.15	<0.005
A46	16.11.2024	C.H.D	<0.001	<0.001	<1.0	<0.01	<2.0	<0.005

<i>Metal (Unit)</i>	<i>LDL</i>	<i>Standard as per NAAQS</i>
Hg ( $\mu\text{g}/\text{m}^3$ )	0.001	*Standard Not defined
Cr( $\mu\text{g}/\text{m}^3$ )	0.01	*Standard Not defined
As ( $\text{ng}/\text{m}^3$ )	1	6
Pb ( $\mu\text{g}/\text{m}^3$ )	0.005	0.5
Ni ( $\text{ng}/\text{m}^3$ )	2	20
Cd ( $\mu\text{g}/\text{m}^3$ )	0.001	*Standard Not defined

सुमान रंजन रामुल

Analysed By  
JSA/SA/SSA

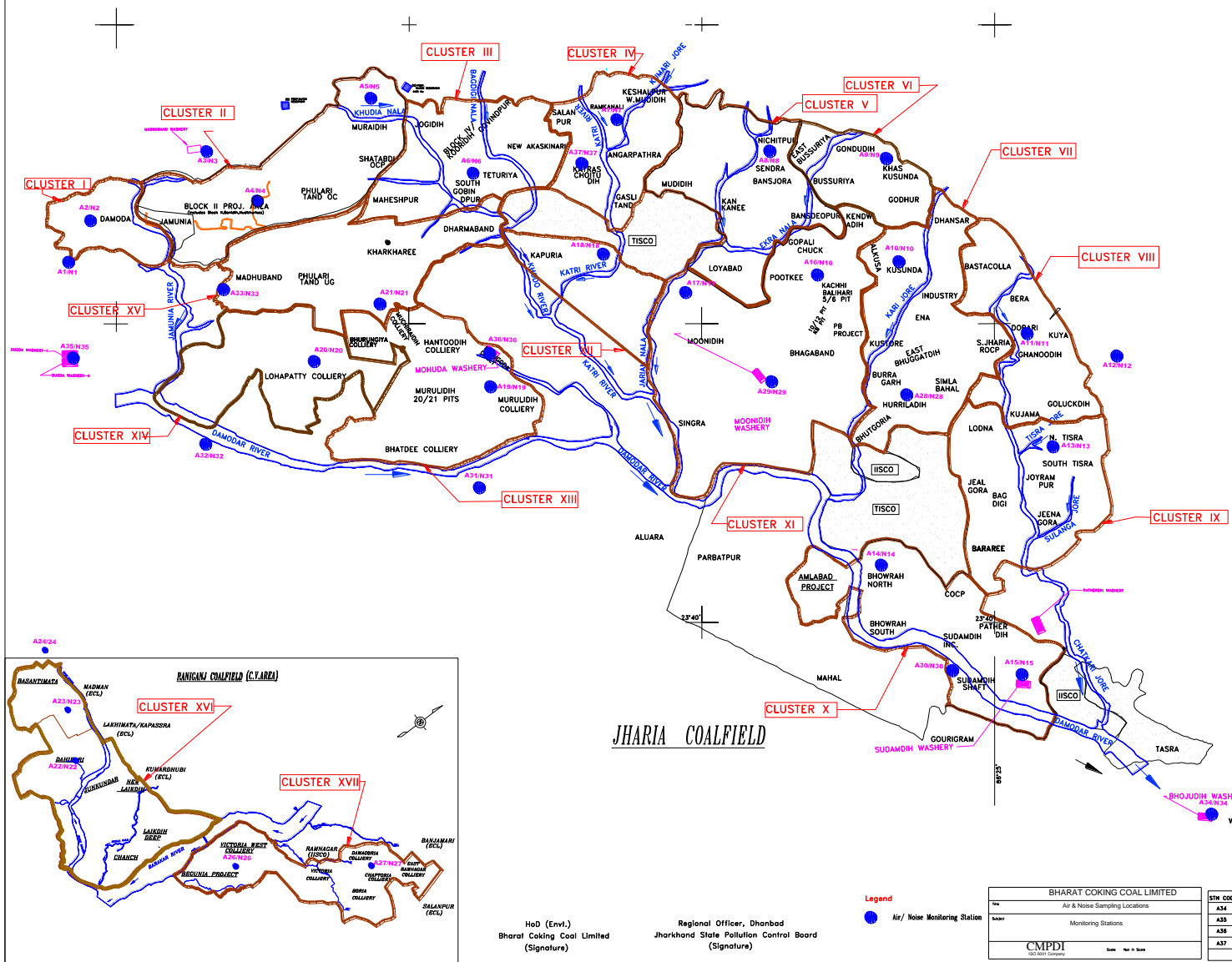
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Checked By  
Lab In Charge  
RI-2, CMPDI, Dhanbad

अमित

Approved By  
HOD(In-charge) Environment  
RI-2, CMPDI, Dhanbad

# Location of Air & Noise Monitoring Stations in BCCL



HoD (Envl.)  
Bharat Coking Coal Limited  
(Signature)

Regional Officer, Dhanbad  
Jharkhand State Pollution Control Board  
(Signature)

**Legend**  
● Air / Noise Monitoring Station

BHARAT COKING COAL LIMITED	
Site	Air & Noise Sampling Locations
Scale	Monitoring Stations
CMPDI Coal Monitoring & Pollution Diagnostic Institute	
Date	Mo to Date

STM CODE	NAME OF STATIONS (AIR/NOISE)
A34	BHOJUDIH COAL WASHERY
A35	MADHUA WASHERY
A36	MAHURA WASHERY
A37	KATRAS CHOTUWHI COLLIERY



BHARAT COKING COAL LTD.  
A MINI RATNA COMPANY  
(A Subsidiary of Coal India Limited)  
Office of the Project Officer (5.0 MTPA Patherdih NLW)  
P.O.Patherdih, Dist. Dhanbad  
(Jharkhand)  
Email:-nlwpatherdihbcccl@gmail.com

Ref: No. BCCL/NLW PCW/2022/ 1054

Dated: 10/10/2022

To  
Dhanbad Municipal Corporation,  
Luby Circular Road, Dhanbad- 826001

Sub:- Copy Environmental Clearance to 5.0 MTPA NLW Patherdih Coal Washery.

Dear Sir/ Madam,

Please find enclosed copy of Environmental Clearance granted to 5.0 MTPA NLW Patherdih Coal Washery having Ref. no. J-11015/240/2010-IA.II (M), Dated with 25-01-2012. Issued by Director (MoEF & CC).

Thinking you

Yours Faithfully

*(Dae Singh)*  
10.10.2022

Project Officer

5.0 MTPA Patherdih NLW Washery

Receipt

*Babeta Goin*  
श्रीमति बाबेता गाराडे 10.10.2022  
पार्षद  
गार्ड संख्या-49  
धनबाद नगर निगम

**Ministry of Environment & Forests**

Paryavaran Bhawan,  
C.G.O. Complex, Lodi Road  
New Delhi -110003.

No. J-11015/240/2010-1A.II (M)

To

Dated: 25<sup>th</sup> January 2012

Director (P&P),  
M/s Bharat Coking Coal Ltd,  
Koyla Bhawan, Dhanbad.

**Sub: Patherdih NLW Coal Washery (5 MTPA normative with a peak capacity of 6.5 MTPA in an area of 12 ha) of M/s Bharat Coking Coal Ltd. located in Jharia Coalfields, in district Dhanbad, Jharkhand - Environmental Clearance - reg.**  
Sir.

This has reference to letter No. 43011/25/2010-CPAM dated 01.07.2010 of Ministry of Coal along with application for Terms of Reference (TOR) and this Ministry's grant of TOR vide letter dated 23.09.2010 and application for environmental clearance vide letter No. CIL/DLI/EMP-TOR/2011/08 dated 13.09.2011 and letter dated 19.11.2011 on the above-mentioned subject. The Ministry of Environment & Forests has considered the application. The proposed is for **establishing a new Patherdih Coking Coal Washery**, which is a non-linked washery (NLW) of a capacity of 5 million tonnes per annum (MTPA) and 6.5 MTPA (peak) in an area of 12 ha in Jharia Coalfields, identified as a critically polluted area. The washery is a 3-product coal washery using Jig and HM Cyclone Technology. The washery is being sited in total area of 12 ha land which is a non-coal bearing area. No forestland is involved. The site has been chosen keeping in view the existing railway line available for transportation of raw coal from 3 collieries, namely N/S Tisra OCP, Goluckdih OCP (NC), Ganoodih OCP and Rajapur OCP located at a distance of 5-7 km from the washery and for despatch of washed coal and middling to be sent to powerhouses in Durgapur and Bokaro.

S.N.	Name of the Linked Mine	Capacity (MTPA)	Reserve Capacity (MT)	Life of mine (in Years)
------	-------------------------	-----------------	-----------------------	-------------------------

1.	N/S Tisra OCP	2.1	13.9	6.6
2.	Goluckdih OCP	1.0	22.85	22.85
3.	Ghanoodih OCP	1.3	4.3	3.3
4.	Rajapur OCP	0.75	18.0	24
	<b>TOTAL</b>	<b>5.15</b>	<b>59.05</b>	

Raw coal (5 MTPA) has an ash content of 41.1% would yield 1.12 MTPA of clean (washed) coal of an ash content of 18.1% would be used in steel plants at Durgapur, Bokaro and Rourkela and power grade coal (2.58 MTPA) with an ash content of 39.93% for use in thermal coal for power generation in TPPs and coal rejects of 1.3 MTPA of > 60% ash content would be utilised in an FBC based Thermal Power Plant. The Company has called for an open tender for use of the coal rejects in an FBC based TPP. The water requirement of the plant (make-up water) is 0.5 MGD and would be obtained from old abandoned mines near the washery. The washery will be provided with a Filter Press and Thickener to extract the water from the slurry. Transportation of raw coal would be by road and washed coal from the washery would be by rail from railway siding located within the premises. The entire clean coal and coal rejects would be from the washery by closed conveyors to adjoining Railway Siding by Rapid Loading system consisting of hopper and surge bunker and thereafter transported by rail mode only. In addition, the entire flyash generated from the FBC based TPP would be utilised by cement units in clinker production/ flyash brick unit. A provision of Rs 2 cores and Rs 5/T of coal for recurring expenditure has been made for activities under CSR. CSR activities would cover education, water supply, health care, social empowerment, infrastructure development i.e. road, water supply, electricity and a community centre. A full time Monitoring Cell is proposed to be constituted. Life of the washery is about 18 years. Public Hearing was held on 02.06.2011. Capital cost of the project is Rs 157.50 crores.

**2.0** The Ministry of Environment & Forests hereby accords environmental clearance for the establishment of the above-mentioned **Patherdih NLW Coking Coal Washery of 5million tonnes per annum (MTPA) capacity with a peak capacity of 6.5 MTPA in an area of 12ha of M/s Bharat Coking Coal Ltd.** under the provisions of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto and under Circulars there under and subject to conditions specified below:

### **Specific Conditions**

(i) The capacity of the washery shall not exceed 6.5 MTPA without prior environmental clearance from this Ministry.

(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.

(iii) The entire coal rejects from the washery shall be fully utilised 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 TPPs shall be preferably located in or near Jharia coalfields. The Company shall enter into a long-term MOU for utilisation of the coal rejects from the washery within 3 months and also for utilisation of flyash generated from the FBC based TPP with a suitable company.

(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 checking of vehicles for source emission, main approach roads used for transportation of raw coal to be black topped, monitoring for particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) 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.

(v) The proponent shall implement a plan to regularly dredge River Damodar 0.5 km upstream and 1km 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.

(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 do not catch fire.

(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.

(viii) All approach roads shall 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.

(ix) The proponent shall maintain proper records of the ash content of raw (ROM) coal, clean coal and coal rejects of every consignment received and washed and the same shall be uploaded along with quantum of raw coal obtained and washed and dispatched every month on the company's website every month.

(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 rainwater harvesting measures. Pressure Filter and Thickener shall be installed in the washery for water recovery and reuse.

(xi) The Washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. The Washery shall be provided with a garland drain to carry/recycle the effluents 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 for development and maintenance of green belt and in the plant operations.

(xii) A separate storm water drain to carry storm water from the washery for discharge outside the premises to nallahs/streams shall be established. The storm water drains shall be regularly desilted.

(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<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed for treatment of workshop effluents.

(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.

(xv) Socio-economic and welfare measures for 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.

(xvi) Levels of heavy metals such as mercury in raw coal, washed coal and rejects shall be analysed twice in a year and records maintained thereof and furnished as part of the Compliance Report to the MOEF RO, Bhubaneswar.

(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 into 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.

## **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.

(ii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>. 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, in PM<sub>10</sub> and PM<sub>2.5</sub> etc. shall be carried out at least once in six months.

(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 analysed through a laboratory recognised under EP Rules, 1986.

(iv) Data on ambient air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> 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 recognised under the EP Rules, 1986 shall be furnished as part of the 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 HMM, etc shall be provided with ear plugs/muffs.

(v) 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.

(vi) 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.

(vii) 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 Bhubaneswar.

(viii) 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>

(ix) 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.

(x) 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.

(xi) 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<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> (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.

(xii) 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.

(xiii) The Regional Office of this Ministry located 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.

(xiv) The environmental statement for each financial year ending 31<sup>st</sup> 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 by E-mail.

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 groundwater and surface water, and occupational and other diseases due to the mining operations.

(Dr.T.Chandini)  
Director

**Copy to:**

1. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, A-31, Chandrashekarapur, Bhubaneswar – 751023.
4. Chairman, Jharkhand 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.
8. Dr.R.K.Garg, Advisor, M/s Coal India Ltd., SCOPE Minar, New Delhi.
9. District Collector, Dhanbad, Government of Jharkhand.
10. Monitoring File 11. Guard File 12. Record File.

(Dr.T.Chandini)  
Director

0  
EJ3234105711N IVR:6974323410571

CP PATHERDIH COAL WASHERY SO <828132>

Counter No:1,13/10/2022,15:21

To:D M C,LUBY CIRCULAR RD

PIN:826001, Dhanbad HO

From:PROJECT OFFICER,5.OMTPA PCW

Wt:30gms

Amt:41.30()Tax:6.30

<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>

<Dial 18002666868> <Wear Masks, Stay Safe>

# ANNEXURE-XI

## ENVIRONMENTAL PARAMETERS DISPLAY BOARD AT 5.0 MTPA PATHERDIH NLW COAL WASHERY





Serving coking coal to the nation



भारत कोकिंग कोल लिमिटेड  
(कोल इण्डिया लिमिटेड की एक अनुबन्धी 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/2024-25/1188

Date: 28.09.2024

To,  
The Member Secretary,  
Jharkhand State Pollution Control Board,  
TA- Divison Building,  
Dhurwa, Ranchi – 834004

Subject – Submission of the \_\_\_\_\_ Environmental Statement/ Form-V of 5.0 MTPA  
Patherdih NLW Coal Washery for FY 2023-24.

Respected Sir/ Ma'am,

Please find enclosed herewith the copy of the \_\_\_\_\_ of Environmental Statement/ Form-V in respect of 5.0 MTPA Patherdih NLW Coal Washery for FY 2023-24.

This is for your kind reference.

Thanking You,

Encl: - As above.

Yours faithfully

Project Officer  
5.0 MTPA Patherdih NLW Coal Washery

Copy To: -

1. The Director, IRO, Ranchi, MoEF&CC Harmu, Jharkhand – 834002 – (via e-mail).
2. Scientist & Incharge, Zonal Office, CPCB, 5<sup>th</sup> Floor 502, House & Conclave, 1582, Rajdanga Main Road, Kolkata- 700107. (via e-mail)
3. General Manager (Ws), Washery Division.
4. General Manager (Mining/Environment), Koyla Bhawan.
5. Nodal Officer (Environment), Washery Division.

## ENVIRONMENTAL STATEMENT (FORM-V)

Environmental Statement of 5.0 MTPA Patherdih NLW Coal Washery for the financial year 2023-24 ended on 31<sup>st</sup> March 2024.)

### PART-A

#### i. Name and address of the owner/occupier of the industry Operation or process

**Name:** Sri Sanjay Kumar Singh

**Designation:** Director (Technical) / Operations

**Address:** Koyla Bhawan, Koyla Nagar, BCCL Township, Dhanbad- 826005

**Industry Category-** Primary (ORANGE Category)

ii. **Production Capacity** – 5.0 MTPA (Peak – 6.5 MTPA)

iii. **Year of Establishment** – 2020 (Year of Commissioning)

iv. **Date of the last Environmental Statement submitted-** 27.09.2023

### PART –B

#### Water and Raw Material Consumption

##### I (A) Water Consumption (In m<sup>3</sup>/d):

Name of Products	Water Consumption (m <sup>3</sup> /day)	
	Washing Operation	Domestic Supply
Washed Coal	40.10	NIL
Washed Power Coal	238.00	
Rejects	13	

##### I (B) Process Water Consumption per unit of Product Output:

Name of Products	During the previous financial year (2022-23)	During the current financial year (2023-24)
Washed Coal	0.012 m <sup>3</sup> /Tonne	0.0950 m <sup>3</sup> /Tonne
Washed Power Coal	0.077 m <sup>3</sup> /Tonne	0.0902 m <sup>3</sup> /Tonne
Rejects	0.031 m <sup>3</sup> /Tonne	0.1206 m <sup>3</sup> /Tonne

##### II Raw Material Consumption:

Name of Raw Materials	Name of Products	Consumption of raw material per unit of output (Tonnes)	
		During the previous financial year	During the current financial year
Raw Coal	Washed Coal	9.69 Tonnes/Te	9.69 Tonnes/Te
Raw Coal	Washed Power Coal	1.50 Tonnes/Te	1.50 Tonnes/Te
Raw Coal	Rejects	3.72 Tonnes/Te	3.72 Tonnes/Te

**PART-C**  
**Pollution Discharged to Environment/Unit of Output**  
 (Parameter as specified in the consent issued)

case of hazardous categories As already

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	Washery operates under Zero Liquid Discharge.		
(b) Air	Monitoring Reports attached.		
(c) Noise	Monitoring Reports attached.		

Note: Routine Environmental Monitoring is being done by Central Mine Planning and Design Institute Limited.

**PART-D**  
**HAZARDOUS WASTES**

As specified under Hazardous Wastes (Management & Handling Rules, 2016).

Hazardous Wastes	Total Quantity	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
1. From Process:		
Burnt Oil (Used/Spent Oil)	800 ltr.	1000 ltr.
2. From Pollution Control Facilities	NIL	NIL

**PART-E**  
**SOLID WASTES**

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
a. From process	NIL	NIL
b. From Pollution Control Facility	NIL	NIL
c. Quantity recycled or re-utilized within the unit.	NIL	NIL

**PART – F**

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

As already mentioned in Part D of this statement, Burnt Oil (Spent Oil/Used Oil) is being generated from Operation and Maintenance of Washery. Burnt oil is disposed off to a Disposal Facility through E- auction on MSTC Portal, a Govt. Of India Undertaking.

**PART-G**

**Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.**

In order to carry out washery operations in eco-friendly manner the following pollution control measures have been adopted:

- Water sprinkling is being done on coal transportation road by mobile water tanker.
- Fixed- type water sprinklers have been installed along the approach road and internal roads of the washery to control fugitive dust emission.
- Regular sprinkling of water through fixed-type water sprinklers at coal transfer points and loading points as well as other dusty areas are been done and sprinklers are regularly maintained to ensure higher efficiency in dust suppression.
- Regular maintenance of plant machinery engaged in coal washing and other machines at washery is done.
- Safety equipment such as safety helmets, ear muffs, etc. are to be provided to operators and others who are exposed to high level noise.
- In addition to that, plantation is being done in undisturbed area/ transportation roads etc.

**PART – H**

**Additional measures/investment proposal for environmental protection including abatement of pollution.**

- Ambient Environmental Monitoring will be continued as per the guidelines of MoEF&CC and Jharkhand State Pollution Control Board.
- Application for consent for emission/continuation of emission under section 21 of the Air (prevention and control of pollution) Act, 1981 and Application for consent for discharge Continuation of discharge under section 25/26 of Water (Prevention and Control of Pollution) Act, 1974 will be regularly done and Conditions laid down in Consent to Operate granted by JSPCB will be strictly followed.
- Continuous Monitoring online PM<sub>10</sub> analyzer has been installed in the washery and also linked to the JSPCB Servers-  
[https://jsac.jharkhand.gov.in/pm10/Inlisted\\_Child.aspx?XqIeZnkvql=sRKxzpLjMjScCWHYj/rdvQVv5zjx3q4KA6WzxBJWP8NEvF3HC+ooJsAC76u8w9lwS7gVPgKC R4AtEdFj2cIEU9YE3pM/itMF2wgB/+iWOEecBto/VhRk4nTabG2IHcWdulLGfW Mig8z+upfD4GYxirKp2CNZPVVfT90unNvmY9WMGpYHeFjnpwlajEH3is34uYw SMBIYms2PqG64gWmcZO9acWyhex7QPbzyCa7H5WeoagRB2uUIFmDG/DB/1D](https://jsac.jharkhand.gov.in/pm10/Inlisted_Child.aspx?XqIeZnkvql=sRKxzpLjMjScCWHYj/rdvQVv5zjx3q4KA6WzxBJWP8NEvF3HC+ooJsAC76u8w9lwS7gVPgKC R4AtEdFj2cIEU9YE3pM/itMF2wgB/+iWOEecBto/VhRk4nTabG2IHcWdulLGfW Mig8z+upfD4GYxirKp2CNZPVVfT90unNvmY9WMGpYHeFjnpwlajEH3is34uYw SMBIYms2PqG64gWmcZO9acWyhex7QPbzyCa7H5WeoagRB2uUIFmDG/DB/1D)

- The Conveyor Belts carrying the Raw Coal are installed with fixed sprinkling arrangements.

**PART -I**  
**MISCELLANEOUS:**

**Any other particulars in respect of environmental protection and abatement of pollution.**

- Water sprinkling is being done on coal transportation road by mobile sprinkler or truck mounted fog cannon.
- Avenue plantation has been done along the approach roads and internal roads of the washery.
- Plantation has been done along the boundary of the Slurry Ponds of the washery.
- A Sneh Smriti Upvan has also been developed in the washery with native species.

  
28/09/24  
**Project Officer**  
**5.0 MTPA Patherdih NLW Washery**  



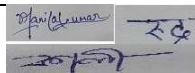

**CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED**  
**Environment Laboratory, Regional Institute-II**  
**Ambient Air Quality Test Report**

**CMPDIL, RI-II**  
**KOYLA BHAWAN COMPLEX**  
**DHANBAD. -826005**  
**Phone:0326-223-850**  
**email: rdri2cmpdi@coalindia.in**

**Test Report for Ambient Air Samples**

<b>Month &amp; Year</b>	03/2024	<b>Cluster</b>	<b>Misc.</b>			<b>ULR No.</b>	TC101222400000648F	
<b>Customer</b>	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)					<b>Date of Issue</b>	14.05.2024	
<b>Project</b>	Patherdih Washery :Industrial Area	<b>Sample Ref. No.</b>	REM/BCCL/2024/03	<b>Sampling Method</b>		CMPDI/RI-II/LPM 11 , ( IS 5182)		
<b>Date of Sampling</b>	06.03.2024	29.03.2024	<b>Period of Analysis</b>	06.03.2024	15.04.2024	<b>Zone of Station:</b>	CORE ZONE	
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )	NAAQS, 2009
			1st FN	2nd FN				
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	51	38	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	108	96	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	20	21	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80

*\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,*

  
**ANALYSED BY**


  
 (Gaurav Kant)  
**REVIEWED BY**

  
 (Amit Raj Mishra)  
**Authorised Signatory**



**Note:** The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env) , CMPDI, RI-II.

---- End of Report ----

Page -1 of 1

 <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Noise Level Test Report</b>										CMPDI, RI-II KOYLA BHAWAN COMPLEX DHANBAD, -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in	
Month & Year	03/2024	Cluster	Misc.					ULR No.	TC101222400000682F		
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)						Date of Issue	14.05.2024			
Project			Sample Ref. No.	REM/BCCL/2024/03		Sampling Method	CMPDI/RI-II/LPM 22				
Sampling Stations	i	Pathardih Washery		Date of Sampling		06.03.2024	29.03.2024	Zone Category of Station:		CORE ZONE	
Sl. No.	Parameter	Hour / Time of day	Observed Values (in Leq dB(A)) First Fortnight	Observed Values (in Leq dB(A)) Second Fortnight	Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards			
								Zones	Limits in dB		
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	47.7	48.2	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50		
2		07:00 - 08:00	50.3	54.9							
3		08:00 - 09:00	51.5	56.2							
4		09:00 - 10:00	52.3	50.7							
5		10:00 - 11:00	53.1	56.1							
6		11:00 - 12:00	56.8	56.7							
7		12:00 - 13:00	56.8	56.8							
8		13:00 - 14:00	56.2	56.8							
9		14:00 - 15:00	56.3	56.2							
10		15:00 - 16:00	55.6	54.4							
11		16:00 - 17:00	54.6	52.9							
12		17:00 - 18:00	54.4	50.1							
13		18:00 - 19:00	54	52.7							
14		19:00 - 20:00	53.5	53							
15		20:00 - 21:00	52.3	53.9							
16		21:00 - 22:00	52.4	53.5							
		<b>Leq Day</b>	54.2	54.6							
1	Noise Level dB(A)Leq -Night	22:00-23:00	50.1	50.3	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50		
2		23:00- 00:00	48.9	49.2							
3		00:00- 01:00	48.6	49.2							
4		01:00-02:00	48.3	48.6							
5		02:00-03:00	48	49.2							
6		03:00-04:00	47.7	47.9							
7		04:00-05:00	47.3	47.9							
8		05:00-06:00	48.2	48.6							
		<b>Leq Night</b>	48.5	48.9							

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit

Sampling Assistants <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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*Note: The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env), CMPDI, RI-II.*

---- End of Report ----  
Page -1 of 1



**cmpdi**  
A Mini Ratna Company

**CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED**  
**Environment Laboratory, Regional Institute-II**  
**Ambient Air Quality Test Report**

CMPDIL, RI-II  
KOYLA BHAWAN COMPLEX  
DHANBAD. -826005  
Phone:0326-223-850  
email: rdri2cmpdi@coalindia.in

**Test Report for Ambient Air Samples**

<b>Month &amp; Year</b>	01/2024	<b>Cluster</b>	Misc.			<b>ULR No.</b>		
<b>Customer</b>	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)				<b>Date of Issue</b>	11.03.2024		
<b>Project</b>	Patherdih Washery :Industrial Area	<b>Sample Ref. No.</b>	REM/BCCL/2024/01	<b>Sampling Method</b>		CMPDI/RI-II/LPM 11 , ( IS 5182)		
<b>Date of Sampling</b>	04.01.2024	18.01.2024	<b>Period of Analysis</b>	04.01.2024	29.02.2024	<b>Zone of Station:</b>	CORE ZONE	
<b>Sl. No.</b>	<b>Parameter</b>	<b>Method of Analysis</b>	<b>Observed Values ( in <math>\mu\text{g}/\text{m}^3</math>)</b>		<b>Range Of Testing</b>	<b>LDL</b>	<b>MoEF Standards Notification dated 25th September,2000 (GSR 742 E )</b>	<b>NAAQS, 2009</b>
			<b>1st FN A1678</b>	<b>2nd FN A1726</b>				
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	137	92	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	75	57	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	19	13	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80

\*\*All units are in  $\mu\text{g}/\text{m}^3$ , 24 hourly Average, \* LDL indicates Lower Detection Limit,

*(Signature)*  
ANALYSED BY




*(Signature)*  
(Gaurav Kant)  
REVIEWED BY





*(Signature)*  
(Amit Raj Mishra)  
Authorised Signatory

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 <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b> <b>Environment Laboratory, Regional Institute-II</b> <b>Ambient Noise Level Test Report</b>										CMPDIL, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in	
Month & Year	01/2024	Cluster	Misc.						ULR No.		
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)							Date of Issue	11.03.2024		
Project			Sample Ref. No.	REM/BCCL/2024/01			Sampling Method	CMPDI/RI-II/LPM 22			
Sampling Stations	i	Pathardih Washery		Date of Sampling		04.01.2024	18.01.2024	Zone Category of Station:	CORE ZONE		
Sl. No.	Parameter	Hour / Time of day	Observed Values ( in Leq dB(A) )		Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards			
			First Fortnight	Second Fortnight				Zones	Limits in dB		
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	48.8	49.3	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50		
2		07:00 - 08:00	51.5	56.2							
3		08:00 - 09:00	52.7	57.5							
4		09:00 - 10:00	53.5	51.9							
5		10:00 - 11:00	54.3	57.4							
6		11:00 - 12:00	58.1	58							
7		12:00 - 13:00	58.1	58.1							
8		13:00 - 14:00	57.5	58.1							
9		14:00 - 15:00	57.6	57.5							
10		15:00 - 16:00	57	55.6							
11		16:00 - 17:00	55.9	54.1							
12		17:00 - 18:00	55.6	51.2							
13		18:00 - 19:00	55.2	53.9							
14		19:00 - 20:00	54.8	54.2							
15		20:00 - 21:00	53.5	55.1							
16		21:00 - 22:00	53.6	54.8							
		<b>Leq Day</b>	55.5	55.8							
1	Noise Level dB(A)Leq -Night	22:00-23:00	52.8	52.9	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50		
2		23:00- 00:00	51.5	51.8							
3		00:00- 01:00	51.1	51.8							
4		01:00-02:00	50.8	51.1							
5		02:00-03:00	50.5	51.8							
6		03:00-04:00	50.2	50.4							
7		04:00-05:00	49.7	50.4							
8		05:00-06:00	50.7	51.1							
		<b>Leq Night</b>	51.0	51.5							
**All noise measurements are integrated for a 01 hour period, All units in dB(A) *LDL indicates Lower Detection Limit											
Sampling Assistants <b>ANALYSED BY</b>			 (Gaurav Kant) <b>REVIEWED BY</b>			 (Amit Raj Mishra) <b>Authorised Signatory</b>					
Note: The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env), CMPDI, RI-II.											
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 <div style="text-align: center;"> <b>CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED</b>  <b>Environment Laboratory, Regional Institute-II</b>  <b>Ambient Air Quality Test Report</b> </div> <div style="text-align: right;"> <b>CMPDIL, RI-II</b>  <b>KOYLA BHAWAN COMPLEX</b>  <b>DHANBAD. -826005</b>  <b>Phone:0326-223-850</b>  <b>email: rdri2cmpdi@coalindia.in</b> </div>									
Test Report for Ambient Air Samples									
Month & Year		02/2024	Cluster		Misc.	ULR No.		TC101222400000594F	
Customer		Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)				Date of Issue		30.03.2024	
Project		Patherdih Washery :Industrial Area	Sample Ref. No.	REM/BCCL/2024/02	Sampling Method		CMPDI/RI-II/LPM 11 , ( IS 5182)		
Date of Sampling		10.02.2024	21.02.2024	Period of Analysis	10.02.2024	15.03.2024	Zone of Station:		CORE ZONE
Sl. No.	Parameter	Method of Analysis	Observed Values ( in $\mu\text{g}/\text{m}^3$ )		Range Of Testing	LDL	MoEF Standards Notification dated 25th September,2000 (GSR 742 E )	NAAQS, 2009	
			1st FN	2nd FN					
1	PM <sub>10</sub>	IS -5182(Part 23):2006, R-2017	137	144	10 $\mu\text{g}/\text{m}^3$ - 1000 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	300	100	
2	PM <sub>2.5</sub>	IS -5182(Part 24):2019	66	68	10 $\mu\text{g}/\text{m}^3$ - 400 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	Not Specified	60	
3	SO <sub>2</sub>	IS-5182(Part-2): 2001 , R-2017	<10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120sss	80	
4	NO <sub>2</sub>	IS-5182 (Part-6): 2006 , R-2017	20	21	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80	
**All units are in $\mu\text{g}/\text{m}^3$ , 24 hourly Average, * LDL indicates Lower Detection Limit,									
 <b>ANALYSED BY</b>		 <b>REVIEWED BY</b> (Gaurav Kant)			 <b>Authorised Signatory</b> (Amit Raj Mishra)				
<b>Note:</b> The results above relate to the samples tested as received. This report can not be reproduced in part or full without the written permission of the HOD(Env) , CMPDI, RI-II.									
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Month & Year	02/2024	Cluster	Misc.	ULR No.	TC101222400000628F				
Customer	Environment Department, Bharat Coking Coal Limited (BCCL), Koyla Bhawan, Dhanbad (E-mail: gmenv.bccl@coalindia.in)				Date of Issue	30.03.2024			
Project		Sample Ref. No.	REM/BCCL/2024/02	Sampling Method	CMPDI/RI-II/LPM 22				
Sampling Stations	i	Pathardih Washery		Date of Sampling	10.02.2024	21.02.2024	Zone Category of Station:	CORE ZONE	
Sl. No.	Parameter	Hour / Time of day	Observed Values (in Leq dB(A)) First Fortnight	Observed Values (in Leq dB(A)) Second Fortnight	Method of Analysis	Range Of Testing	LDL	NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Standards Zones	Limits in dB
1	Noise Level dB(A)Leq - Day	06:00 - 07:00	47.7	48.2	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	75 65 55 50
2		07:00 - 08:00	50.3	54.9					
3		08:00 - 09:00	51.5	56.2					
4		09:00 - 10:00	52.3	50.7					
5		10:00 - 11:00	53.1	56.1					
6		11:00 - 12:00	56.8	56.7					
7		12:00 - 13:00	56.8	56.8					
8		13:00 - 14:00	56.2	56.8					
9		14:00 - 15:00	56.3	56.2					
10		15:00 - 16:00	55.7	54.3					
11		16:00 - 17:00	54.6	52.9					
12		17:00 - 18:00	54.3	50					
13		18:00 - 19:00	53.9	52.7					
14		19:00 - 20:00	53.5	53					
15		20:00 - 21:00	52.3	53.8					
16		21:00 - 22:00	52.4	53.5					
		<b>Leq Day</b>	54.2	54.6					
1	Noise Level dB(A)Leq -Night	22:00-23:00	51.6	51.7	CPCB, Protocol for Ambient Level Noise Monitoring -2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
2		23:00- 00:00	50.3	50.6					
3		00:00- 01:00	49.9	50.6					
4		01:00-02:00	49.6	49.9					
5		02:00-03:00	49.3	50.6					
6		03:00-04:00	49	49.2					
7		04:00-05:00	48.6	49.2					
8		05:00-06:00	49.5	49.9					
		<b>Leq Night</b>	49.8	50.3					

\*\*All noise measurements are integrated for a 01 hour period, All units in dB(A) \*LDL indicates Lower Detection Limit

Sampling Assistants <b>ANALYSED BY</b>	 (Gaurav Kant) <b>REVIEWED BY</b>	 (Amit Raj Mishra) <b>Authorised Signatory</b>
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Modified Annual CSR Action Plan for FY 2024-25								
Approval status	Sl. No.	CSR Project/Programme	Item from the list of the activities in schedule VII to the act	Estimated Budget (₹ in Lakhs)	Manner of execution/Executing Agency	Implementation Schedule	Monitoring and reporting mechanism	Details of need and impact assessment **, if any; as evaluated by BCCL
Action plan	1	Skill Development Program by National Skill Development Council (NSDC) (Loader Operator (Mining), Mine Electrician, Multi Skill Technician (Electrical), Customer Service Associate (Financial Services), Food & Beverage Service – Associate, Solar & LED Technician (Electronics) & door to door survey for need assessment (next phase of work of FY 2023-24) (HQ)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	358.53	NSDC	1. Civil & Electrical jobs of the two training centres- Oct & Nov 2024 2.Training- Nov/2024 onwards	NSDC	Benefit to 660 students . Impact assessment not mandatory as minimum average CSR obligation of Rs. 10 crore or more in the immediately preceding 3 financial years does not apply.
Action plan	2	Skill Development Program for 75 candidates through MSME Toolroom, Kolkata (Ministry of MSME) on the trades Asst. Operator (CNC Turning), Jr. Technician (Welding), Technician CNC Machining (HQ)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	81.78	MSME Toolroom, Kolkata	1. Selection of candidates complete. 2.Six months training to start from Sept'2024 onwards.	MSME Toolroom, Kolkata	Benefit to 75 candidates
In principle	3	Skill Development Program through CIPET, Ranchi for 200 candidates (HQ)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	170.00	CIPET, Ranchi	1.Selection of candidate complete 2.Six months training to start from Sept'2024 onwards.	CIPET, Ranchi	Benefit to 200 students primarily PAPs . Impact assessment not mandatory as minimum average CSR obligation of Rs. 10 crore or more in the immediately preceding 3 financial years does not apply.
In principle	4	Skill Development training program on Medical Equipment Technician for 150 candidates (Skill training on health) (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	46.95	Implementing Agency	1.Selection of implementing agency- Sep'2024 2. Selection of candidate & onboarding- Oct'2024 3.Training completion- six months	Implementing Agency	Benefit to 150 candidates
Action plan	5	Development of Strategic Interventions through Innovative Techniques to Promote STEM Education among underprivileged students with special emphasis on PAP (Project Affected Person) students in Dhanbad (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	10.00	IIT-ISM	1. Signing of MoU- Complete 2.Project initiation- Sep'2024	IIT-ISM	Targetting 1500 students
Action plan	6	Construction of Auditorium at Law College, Dhanbad (work of FY 2023-24) (HQ)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	28.00	BCCL	1. Work order issued 2. Work completion- Feb'2024	BCCL	Benefit to approximately 500 students
New	7	Providing 200 wireless sets and 1000 barricades through depository mode to Dhanbad District Administration (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	227.00	BCCL	1. Deposition of amount with District administration: 3 days within approval 2. Work execution: 2 months	Dhanbad district administration	Benefit to populace of Dhanbad. Impact assessment not mandatory

In principle	8	Installation of Smart Classrooms and Information and Communication Technology (ICT) Labs in Government schools of Dhanbad district (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	1069.48	EdCIL (India) Ltd.	1. MoU signed 2. Work execution: 3 months	EdCIL (India) Ltd.	Benefit to approximately 800 students of Dhanbad district. Impact assessment not mandatory
Action plan	9	Installation of smart classes in Schools of Giridih district (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	180.21	Implementing Agency	1. First Installment- Within 15 days of MoU 2. Work execution phase- 3 months	Implementing Agency	Benefit to approximately 5000 students. Impact assessment not mandatory
Action plan	10	Installation of statue of Bhagwan Birsa Munda (HQ)	Protection of national heritage, art and culture including restoration of buildings and sites of historical importance and works of art; setting up public libraries; promotion and development of traditional arts and handicrafts	13.00	BCCL	1. Procurement: complete 2. Installation- Nov-2024	BCCL	Targetting residents of Dhanbad
Action plan	11	Construction of Multi Purpose Hall with kitchen & boring at Bhelatand (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Rural development	46.20	BCCL	1. Estimate preparation-prepared,technical vetting complete (civil part), vetting in progress for electrical part 2. Approval of estimate--within 1 month after approval of action plan 3. Tender call-with in 5 days of estimate approval 4. Award of work-with in 45 days of tender opening 5. 25% Payment- 30 days after award. 6. 50% Payment- 60 days after award. 7. 100% Payment- 90 days after award. 8. Project may be handed over within 10 days after completion.	BCCL	Benefit to approximately 245 people
Action plan	12	Construction of 2 classrooms at Saraswati Vidya Mandir, Kurmidih, Govindpur (HQ)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	50.00	BCCL	1. Estimate preparation-prepared,technical vetting complete (civil part), vetting in progress for electrical part 2. Approval of estimate--within 1 month after approval of action plan 3. Tender call-with in 5 days of estimate approval 4. Award of work-with in 45 days of tender opening 5. 25% Payment- 30 days after award. 6. 50% Payment- 60 days after award. 7. 100% Payment- 90 days after award. 8. Project may be handed over within 10 days after completion.	BCCL	Benefit to approximately 200 students
Action plan	13	Construction of 4 rooms, toilet and kitchen at Premiya Rishikesh Memorial Orphan School, Pokhariya, East Tundi (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	49.00	BCCL	1. Estimate preparation-prepared,technical vetting complete (civil part), vetting in progress for electrical part 2. Approval of estimate--within 1 month after approval of action plan 3. Tender call-with in 5 days of estimate approval 4. Award of work-with in 45 days of tender opening 5. 25% Payment- 30 days after award. 6. 50% Payment- 60 days after award. 7. 100% Payment- 90 days after award. 8. Project may be handed over within 10 days after completion.	BCCL	Benefit to approximately 320 students

In principle	14	Construction of drain at kharnagadha (Sanitation) (Washery div.)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	25.48	BCCL	1. Tender call- under process 2. 25% Payment- 30 days after award. 3. 50% Payment- 60 days after award. 4. 100% Payment- 90 days after award. 5. Project may be handed over within 10 days after completion. 6. Work execution phase: 3 months	BCCL	Benefit to approximately 1000 persons
In principle	15	Construction of ghat in Khodo river at Gram Panchayat Tundu (Jhajlitand and Sagriyadh) (Barora Area)	Rural development	29.01	BCCL	1. Estimate preparation-prepared 2. Approval of estimate-Under process 3. Tender call-with in 5 days of estimate approval 4. Award of work-with in 45 days of tender opening 5. 25% Payment- 30 days after award. 6. 50% Payment- 60 days after award. 7. 100% Payment- 90 days after award. 8. Project may be handed over within 10 days after completion. 9. Work execution phase: 3 months	BCCL	Benefit to approximately 3000 persons
Action plan	16	Financial assistance to Dhanbad district administration for depository mode procurement of wheelchairs (tricycles) (485 nos.) (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	48.99	BCCL	Complete	BCCL	Targetting elderly and PWDs during election and PWDs post election
Action plan	17	Financial assistance to Dhanbad District Administration for depository mode procurement for providing food and other necessary items to Polling teams/sector magistrate etc. during Lok Sabha Elections 2024. (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	12.00	BCCL	Complete	BCCL	Targetting a large number of beneficiaries and overall community
In principle	18	Making available food, water & other necessary items for general populace during visit of Dhanbad by Hon'ble Chief Minister, under CSR head of BCCL (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	15.00	BCCL	Complete	BCCL	Targetting a large number of beneficiaries and overall community
		Contingent head		100.00				
				2560.63				
In principle	1	Construction of community park at Barmasiya Mouja under AMP Colliery (Barora Area)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Ensuring environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agroforestry, conservation of natural resources and maintaining quality of soil, air and water including contribution to the Clean Ganga Fund set-up by the Central Government for rejuvenation of river Ganga	390.59	BCCL	1. Tender floated 2. Work execution phase: March/2024	BCCL	Benefit to approximately 10000 persons  Impact assessment not mandatory
In principle	2	Infrastructure upgradation work in Chungari Free Primary School, Barakar (CV Area)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	45.00	BCCL	1. Estimate preparation-prepared 2. Approval of estimate-under approval 3. Tender call-with in 5 days of estimate approval 4. Award of work-with in 45 days of tender opening 5. 25% Payment- 30 days after award. 6. 50% Payment- 60 days after award. 7. 100% Payment- 90 days after award. 8. Project may be handed over within 10 days after completion. 9. Work execution phase: 5 months	BCCL	Benefit to approximately 160 students

In principle	3	Upgradation of school building at Utkramit Madhya Vidyalaya, Laikdih, Chirkunda (CV Area)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	50.00	BCCL	<ol style="list-style-type: none"> <li>1. Estimate preparation &amp; approval- under process</li> <li>2. Approval of estimate-within 1 month after approval of action plan and obtainment of NOC (as applicable)</li> <li>3. Tender call-with in 5 days of estimate approval</li> <li>4. Award of work-with in 45 days of tender opening</li> <li>5. 25% Payment- 30 days after award.</li> <li>6. 50% Payment- 60 days after award.</li> <li>7. 100% Payment- 90 days after award.</li> <li>8. Project may be handed over within 10 days after completion.</li> <li>9. Work execution phase: 5</li> </ol>	BCCL	Benefit to approximately 191 students
Action plan	4	Upgradation of Blind School, Dhanbad (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	36.00	BCCL	<ol style="list-style-type: none"> <li>1. Estimate preparation-prepared, under approval</li> <li>2. Approval of estimate-within 1 month</li> <li>3. Tender call-with in 5 days of estimate approval</li> <li>4. Award of work-with in 45 days of tender opening</li> <li>5. 25% Payment- 30 days after award.</li> <li>6. 50% Payment- 60 days after award.</li> <li>7. 100% Payment- 90 days after award.</li> <li>8. Project may be handed over within 10 days after completion.</li> <li>Work execution phase: 3 months</li> </ol>	BCCL	Targetting blind students of the School
In principle	5	Desilting/deepening of Lal Bandh Pond and rehabilitation of adjoining embankment around it at Baliapur (Bastacolla Area)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Ensuring environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agroforestry, conservation of natural resources and maintaining quality of soil, air and water including contribution to the Clean Ganga Fund set-up by the Central Government for rejuvenation of river Ganga	191.95	BCCL	<ol style="list-style-type: none"> <li>1. Estimate preparation-prepared, under approval</li> <li>2. Approval of estimate-within 1 month after approval of action plan and obtainment of NOC (as applicable)</li> <li>3. Tender call-with in 5 days of estimate approval</li> <li>4. Award of work-with in 45 days of tender opening</li> <li>5. 25% Payment- 30 days after award.</li> <li>6. 50% Payment- 60 days after award.</li> <li>7. 100% Payment- 90 days after award.</li> <li>8. Project may be handed over within 10 days after completion.</li> <li>9. Work execution phase: 4</li> </ol>	BCCL	Benefit to approximately 2000 persons  Impact assessment not mandatory
In principle	6	Infrastructure development works at Baghmara College, Baghmara, Dhanbad (Block II Area)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.  Rural development	75.00	BCCL	<ol style="list-style-type: none"> <li>1. Estimate preparation-prepared</li> <li>2. Approval of estimate-under process</li> <li>3. Tender call-with in 5 days of estimate approval</li> <li>4. Award of work-with in 60 days of tender opening</li> <li>5. 25% Payment- 30 days after award.</li> <li>6. 50% Payment- 60 days after award.</li> <li>7. 100% Payment- 90 days after award.</li> <li>8. Project may be handed over within 10 days after completion.</li> <li>9. Work execution phase: 2 months</li> </ol>	BCCL	Benefit to approximately 1427 persons
Action plan	7	Providing Diagnostic BERA Machine and Solar Power installation at Pehela Kadam School (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	24.00	BCCL	<ol style="list-style-type: none"> <li>1. Estimate preparation: prepared for solar</li> <li>2. Procurement: 03 months</li> <li>3. Installation &amp; completion: 1 month</li> </ol>	BCCL	Benefit to approximately 50 students per year
Action plan	8	Providing gas cylinders, utensils for kitchen and for storage at Carmel Bal Vihar Trust, Kagalnagar, Sonari, Jamshedpur (02 year project) (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	15.00	Implementing Agency	<ol style="list-style-type: none"> <li>1. Estimate preparation: under preparation</li> <li>2. Approval of estimate: within 1 month after approval of action plan</li> <li>3. Procurement: 03 months</li> <li>4. Supply: 1 month to 12 months</li> <li>Work execution phase: 24 months</li> </ol>	Implementing Agency	Benefit to approximately 70 children

New	9	Providing three units water purifier and one generator for Saraswati Vidyamandir Sr. Sec. School Dugdha (Washery div.)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.  Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	16.00	BCCL	1. Estimate preparation:prepared 2. Approval of estimate: within 1 month after approval of action plan 3. Procurement: 03 months 4. Supply: 1 month to 12 months Work execution phase: 24 months	BCCL	Benefit to approximately 100 children
New	10	Construction of boundary wall at Shibu Soren degree college, East Tundi (HQ)	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly and the differently abled and livelihood enhancement projects.	73.00	BCCL	1. Estimate preparation:prepared 2. Approval of estimate: within 1 month after approval of action plan 3. Procurement: 03 months 4. Supply: 1 month to 12 months Work execution phase: 24 months	BCCL	Benefit to approximately 500 children
Action plan	11	Medical Camps across Areas & HQ through Mobile Medical Vans (MMV) on a Hiring Basis (03 years project, estimate of 01 year) (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	137.70	BCCL	1. Estimate preparation-prepared, under approval 2. Medical camps: 2024-25 Work execution phase: 12 months	BCCL	Targetting villages around operational Areas. Impact assessment not mandatory
In principle	12	Providing two electric busses for utilization of people of Belgaria (03 years project, estimate of 01 year) (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	350.00	Implementing Agency	1. Estimate preparation- under preparation 2. Medical camps: 2024-25 Work execution phase: 12 months	BCCL	Targetting residents primarily of Belgaria. Impact assessment not mandatory
				1404.24				
				3964.87				
Action plan	13	Drinking water solution through utilization of mine water (HQ)	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health and sanitation including contribution to the Swatch Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water.	500.00	BCCL	1. Estimate preparation- under preparation 2. Approval of estimate-within 1 month after approval of action plan and obtainment of NOC (as applicable) 3. Tender call-with in 5 days of estimate approval 4. Award of work-with in 45 days of tender opening 5. 25% Payment- 30 days after award. 6. 50% Payment- 60 days after award. 7. 100% Payment- 90 days after award. 8. Project may be handed over within 10 days after completion.	Implementing Agency/BCCL	Benefit to approximately 5000 people. Impact assessment not mandatory