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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Under jurisdiction of Dhanbad Court and Jharkhand High Court</p> <p><b>Bharat Coking Coal Limited</b><br/> A Mini Ratna Company<br/> (A Subsidiary of Coal India Limited-<br/> a Maharatna Company)<br/> Regt. Off : KoylaBhawan, Koyla Nagar<br/> Dhanbad- 826005<br/> CIN : U10101JH1972GOI000918</p> |  | <p><b>Office of the General Manager</b><br/> (Ws.) Washery Division<br/> Saraidhela, Dhanbad- 828127<br/> Phone : 0326-2202002<br/> Fax No.: 0326-2222642<br/> Website : <a href="http://www.bccl.gov.in">www.bccl.gov.in</a></p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ref: 869.

Date: 30.11.2021

To,  
The Director,  
Ministry of Environment, Forest & Climate Change,  
East Central Regional Office (ECZ), Bungalow No. - A-2,  
Shyamali Colony, Ranchi - 834002

**Subject – Six monthly report on Compliance to Environmental Clearance of 5.0 MTPA  
Patherdih NLW Coal Washery for the period April'21 – September'21.**

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

Dear Sir,

Please find enclosed herewith the six- monthly report on Compliance of Environmental Clearance for the period April'21 – September'21 in respect of 5.0 MTPA Patherdih NLW Coal Washery. We hope you will find in order.

Thanking You,

Encl: - As above.

Yours faithfully,

*[Signature]*  
30/11/21  
General Manager (Ws)  
Washery Division

**Copy To: -**

1. The Director, 1A Monitoring Cell, Paryavaran Bhawan, CGO Complex, New Delhi- 110003.
2. The Member Secretary, Jharkhand State Pollution Control Board, TA- Divison Building, Dhurwa, Ranchi – 834004.
3. HoD (Environment), BCCL – KoylaBhawan, Dhanbad.
4. Office Copy.

**ENVIRONMENTAL CLEARANCE COMPLIANCE OF 5.0 MTPA PATHERDIH NLW COAL  
WASHERY GRANTED VIDE EC No. J-11015/240/2010-IA.II(M), DATED: 25.01.2012**

(APRIL '21 – SEPTEMBER '21)

| <u>Sl. No.</u> | <u>Compliance Conditions</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Compliance Status</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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><br>Patherdih NLW coal washery will not exceed 6.5 MTPA capacity without prior NOC from MoEF&CC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (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><br>Patherdih Railway Siding, located within the premises of the Patherdih NLW Coal Washery, is being used for transportation of Washed Coal 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><br>The rejects produced are being stacked separately and its disposal is under process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| (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 | <b>Being Complied.</b><br>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.<br>The unit also arranges for sufficient sprinkling arrangements on roads and all coal transfer points.<br>Pictures of mobile water sprinkler are enclosed in <b>ANNEXURE-II</b> .<br>Regular maintenance of vehicles is being done to keep minimum source emissions.<br>Three tier green belt with native species is being developed, 1100 trees have been planted already.<br>Pictures of plantation are enclosed in <b>ANNEXURE-I</b> . |

*Don Singh*

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|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | 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 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. | <b>Not Applicable.</b><br>As the Patherdih NLW Coal Washery Unit is nearly 3.5 KM away from Damodar River and no effluent/ drainage from this unit will meet to Damodar River. Therefore any sludge or coal fines deposit and siltation will be caused by the Washery. So, dredging of River Damodar by Patherdih NLW Washery is not called for. |
| (vi)   | The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored raw coal, washed coal and coal wastes don not catch fire.                                                                                  | <b>Being Complied.</b><br>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.                                                                                     |
| (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.         | <b>Being Complied.</b><br>The unit has installed high efficiency Bag Filters & Mobile Water Sprinkling system at all crushing & coal transfer points to control fugitive emissions.<br>Pictures of mobile water sprinkler are enclosed in ANNEXURE-II.                                                                                           |
| (viii) | All approach roads should be black topped and all internal roads shall be black topped or concreted. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using local species shall be developed along the main roads and approach roads to the washery.                                                                 | <b>Being Complied.</b><br>Black topped roads have been constructed. Presently cleaning of roads is being done manually. A 3-tier avenue plantation using local species have been developed along the main roads and all approach roads to the washery.<br>Pictures of plantation are enclosed in ANNEXURE-I.                                     |
| (ix)   | The proponent shall maintain proper records of the ash of the ash content of raw (ROM) coal, clean coal and coal rejects of every consignment received and washed and the same shall be uploaded along with quantum of raw coal obtained and washed and dispatched every month on the company's website every month.                                          | <b>Being Complied.</b><br>Proper records of Ash content of Raw Coal, Clean Coal and Coal Rejects is being maintained 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                                                                                                                                                                                                                                         | <b>Being Complied.</b><br>Water requirement for washery is being met from the nearest mines of BCCL. Additional                                                                                                                                                                                                                                  |

Bar Singh

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|        | 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.                                                                                                                                                                                                                                                                                         | water requirement has been obtained by recycle/ reuse and from Rain Water Harvesting measures. Construction of infrastructure for Rain Water Harvesting has been completed. Besides this Water Meter is also installed in Delivery Pipe Line. |
| (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><br>As per plan, Washery is operating on Zero-Discharge Basis and no waste water is being discharged from this unit. The washery has been provided with a garland drain.                                                |
| (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>Being Complied.</b><br>A separate storm water drain has been constructed to discharge storm water outside Washery premises and it is desilted periodically.                                                                                |
| (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><br>CMPDI Dhanbad is carrying out monitoring of environment quality work. There is arrangement for treatment of effluent discharge to prescribed standards.<br>Oil and grease trap is under function.                   |
| (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.                                                                                                                                                                                                                                                                                                                                                                         | <b>Being Complied.</b><br>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 taker up.                                               |
| (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.                                                                                                                                              | <b>Being Complied.</b><br>The Unit has started its commercial operation in July 2020.<br>As per Company's policy, a monitoring Cell of the Company already exists for monitoring activities under taken under CSR.                            |
| (xvi)  | Levels of heavy metals such as mercury in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Being Complied.</b>                                                                                                                                                                                                                        |

*Dr. Singh*

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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (xvii)                          | <p><b>Corporate Environment Responsibility:</b></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></p> <p>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.<br/>(<a href="http://www.bcclweb.in/environment/CEP_04.11.2019.pdf">http://www.bcclweb.in/environment/CEP_04.11.2019.pdf</a>)</p> <p>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. Monitoring is being done by CMPDIL. CMPDIL has a laboratory accredited by NABL.</p> |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p><b>Complied.</b></p> <p>The Washery will not change its technology without prior permission from MoEF&amp;CC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| (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.                                                                                                                                                                                                                                                           | <p><b>Being Complied.</b></p> <p>Monitoring is being done by CMPDIL, which has NABL accredited laboratory.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p><b>Being Complied.</b></p> <p>Presently, CMPDIL Dhanbad is carrying out regular monitoring of environmental quality work.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

*Bar Singh*

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|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | analyzed through a laboratory recognized 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 recognized under the EP Rules, 1986 shall be furnished as part of the compliance report. | <b>Being Complied.</b><br>Monitoring for the same is done by CMPDIL having own laboratory recognized under EPA Rules, 1986.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (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.<br>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.                                                                                                                                                                           | <b>Being Complied.</b><br>As per Safety Policy of the Company, necessary protective respiratory devices are provided to the workmen working in dusty conditions.<br>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><br>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 |

*Das Singh*

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|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | of the company The team is multidisciplinary and very much motivated under the guidance of company's Director (Technical) and CMD. Further capacity building.                                                                                                                                                                                           |
| (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><br>Every year a separate budget is kept under Environment Head, which is spent solely for Environment- related activities.                                                                                                                                                                                                       |
| (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>Being Complied.</b><br>The Washery has already advertised the NOC 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>Being Complied.</b><br>The copy of Environmental Clearance has already been made available to District Collector, local Zila Parishad, Ward Councilor, Municipal Corporation.<br>A copy of the Environmental Clearance has also been displayed on the Company's website.                                                                             |
| (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>Being Complied.</b><br>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 | <b>Being Complied.</b><br>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. After coming up of the Washery into existence, the Environment Quality Report (Air, Water, Noise and Soil) will be displayed on the Company's website. |

*Bar Singh*

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|        | office and in corporate office and on the company's website.                                                                                                                                                                                                                                                                                                                                                                                                             |                 |
| (xiii) | The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MoEF, the respective Zonal Offices of CPCB and the SPCB.                                                                                                                                                                                              | Being Complied. |
| (xiv)  | The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.                                                                                                                                                                                      | Being Complied. |
| (xv)   | The environmental statement for each financial year ending 31 <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. | Being Complied. |

*P. Singh.*  
29.11.2021

**Project Officer**

**(5.0 MTPA Patherdih  
NLW Coal Washery)**

## ANNEXURE - I

### *Pictures of Plantation done in 5.0 MTPA Patherdih NLW Coal Washery*





## ANNEXURE - II

*Pictures of Water Sprinkling done by 15 KL Mobile Water Sprinkler in 5.0 MTPA Patherdih NLW Coal Washery*



# **Monitoring Reports of 5.0 MTPA Patherdih NLW Coal Washery**

**STRICTLY RESTRICTED**

**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.

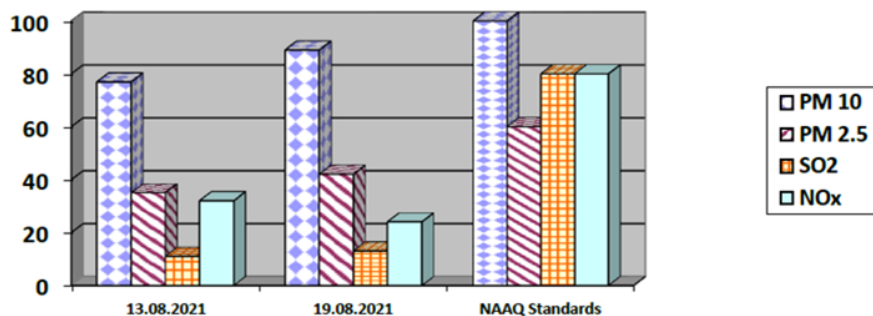
**ENVIRONMENTAL MONITORING REPORT  
OF  
BHARAT COKING COAL LIMITED,  
FOR MISCELLANEOUS UNITS/WASHERIES  
(FOR THE MONTH AUGUST, 2021)**



**CMPDI**

ISO 9001 Company  
Regional Institute-II  
Dhanbad, Jharkhand

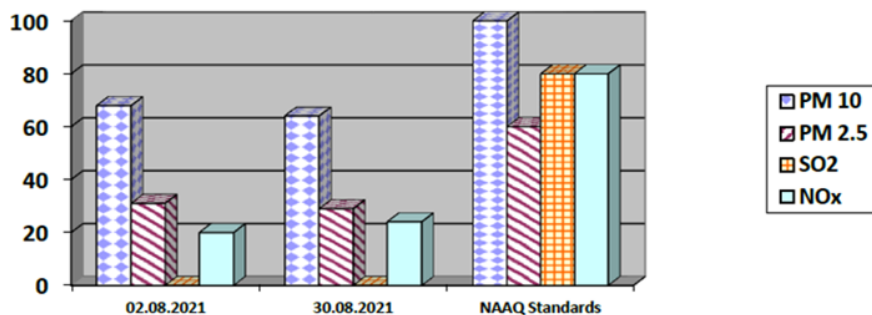
| Station Name: A39 Patherdih |                   | Zone: Core |        | Category: Industrial |                 |
|-----------------------------|-------------------|------------|--------|----------------------|-----------------|
| Sl. No.                     | Dates of sampling | PM 10      | PM 2.5 | SO <sub>2</sub>      | NO <sub>x</sub> |
| 1                           | 13.08.2021        | 77         | 35     | 11                   | 32              |
| 2                           | 19.08.2021        | 89         | 42     | 13                   | 24              |
|                             | NAAQ Standards    | 100        | 60     | 80                   | 80              |



All values are expressed in microgram per cubic meter.

| Station Name: A40 Koylanagar Hospital |                   | Zone: Buffer |        | Category: Residential |                 |
|---------------------------------------|-------------------|--------------|--------|-----------------------|-----------------|
| Sl. No.                               | Dates of sampling | PM 10        | PM 2.5 | SO <sub>2</sub>       | NO <sub>x</sub> |
| 1                                     | 02.08.2021        | 68           | 31     | <10                   | 20              |
| 2                                     | 30.08.2021        | 64           | 29     | <10                   | 24              |
|                                       | NAAQ Standards    | 100          | 60     | 80                    | 80              |

➤ 24 hours duration



All values are expressed in microgram per cubic meter.

➤ 24 hours duration

अमान झा राबुल  
Analysed By  
JSA/SA/SSA

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

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

## NOISE LEVEL QUALITY MONITORING

### 4.1 Location of sampling sites

- i) Bhojudih Washery (N34)
- ii) Dugda Washery (N35)
- iii) Mahuda Washery (N36)
- iv) Sinidih Workshop (N38)
- v) Patherdih wahery (N 39)
- vi) Koylanagar Hospital(N40)

### 4.2 Methodology of sampling and analysis

Noise level measurements in form of 'L<sub>EQ</sub>' were taken using Integrated Data Logging Sound Level Meter (NL-52 OF RION CO. Ltd. Make) during day time. Noise levels were measured for about one hour time in day time. Noise levels were measured in Decibels, 'A' weighted average, i.e. dB (A).

### 4.3 Results & Interpretations

Ambient noise levels were recorded during day time and the observed values were compared with standards prescribed by MoEFCC. The results of Noise levels recorded during day time on fortnightly basis are presented in tabular form along with the applicable standard permissible limits. The observed values in terms of L<sub>EQ</sub> are presented. The observed values at all the monitoring locations are found to be within permissible limits.

#### NOISE LEVEL DATA

| Name of the Project : Miscellaneous |                       |                  | Month: AUGUST, 2021 |                      |                                            |
|-------------------------------------|-----------------------|------------------|---------------------|----------------------|--------------------------------------------|
| Sl. No.                             | Station Name/Code     | Category of area | Date                | Noise level dB(A)LEQ | *Permissible Limit of Noise level in dB(A) |
| 1                                   | Bhojudih Washery(N34) | Industrial area  | 04.08.2021          | 51.3                 | 75                                         |
| 2                                   | Bhojudih Washery      | Industrial area  | 18.08.2021          | 65.2                 | 75                                         |
| 3                                   | Dugda Washery(N35)    | Industrial area  | 03.08.2021          | 59.7                 | 75                                         |
| 4                                   | Dugda Washery         | Industrial area  | 17.08.2021          | 61.1                 | 75                                         |
| 5                                   | Mahuda Washery(N36)   | Industrial area  | 07.08.2021          | 62.3                 | 75                                         |
| 6                                   | Mahuda Washery        | Industrial area  | 19.08.2021          | 63.1                 | 75                                         |
| 7                                   | Sinidih Workshop(N38) | Industrial area  | 12.08.2021          | 62.8                 | 75                                         |
| 8                                   | Sinidih Workshop      | Industrial area  | 24.08.2021          | 61.2                 | 75                                         |
| 9                                   | Patherdih(N39)        | Industrial area  | 13.08.2021          | 65.5                 | 75                                         |
| 10                                  | Patherdih             | Industrial area  | 19.08.2021          | 64.3                 | 75                                         |
| 11                                  | Koylanagar Hospital   | Residential area | 02.08.2021          | 51.2                 | 55                                         |
| 12                                  | Koylanagar Hospital   | Residential area | 30.08.2021          | 51.2                 | 55                                         |

\*Permissible limits of Noise Level as per MOEF Gazette Notification No. GSR 742(E) dt. 25.09.2000 Standards for Coal Mines and Noise Pollution (Regulation and Control) Rules, 2000.

\* Day Time: 6.00 AM to 10.00 PM,

Analysed By  
JSAS/ASA

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

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