

भारत कोकिंग कोल लिमिटेड

(एक मिनी रत्न कंपनी)
(कोल इंडिया लिमिटेड का एक अंग)



BHARAT COKING COAL LIMITED

(A Mini Ratna Company)

(A subsidiary of Coal India Limited)

WASHERIES CONSTRUCTION DIVISION

Regd. Off. : Koyla Bhawan (Level – VI),

Koyla Nagar,

DHANBAD – 826005

CIN : U101JH1972GOI000918

Telephone no. / Fax: 0326-2230201

Email ID : gmwcd.bccl@coalindia.in.in

पत्रांक : BCCL/WCD/24/ 130 (H)

दिनांक : 15.04.2024

सेवा मे,

The Director
Ministry of Environment, Forests & Climate Change.
Govt. of India,
Integrated Regional Office, Kolkata
IB-198, Sector- III, Salt Lake City, Kolkata - 700106.

विषय: Six monthly compliance report of EC conditions for the period from October 2023-March 2024 for Bhojudih NLW Coal Washery 2.0 MTPA in an Area of 15 ha.

Ref No. EC order No. J-11015/432/2013-IA-II(M) dated 10.08.2016

Dear Sir,

Enclosed herewith please find the half yearly Compliance Report of EC conditions for the period from October 2023 to March 2024 in respect of 2.0 MTPA Bhojudih NLW Coal Washery of Bharat Coking Coal Ltd.

Thanking You

Encl: As above

भवदीय,

15.04.2024

महाप्रबंधक
वाशरी निर्माण विभाग

प्रतिलिपि :

1. Director, IA Monitoring Cell, Paryabaran Bhawan, CGO complex, New Delhi-110003
2. Scientist and Incharge, zonal Office, Central Pollution Control Board, Kolkata.
3. Member Secretary, West Bengal Pollution Control Board
4. GM (Environment), BCCL

SIX MONTHLY REPORT ON COMPLIANCE TO ENVIRONMENTAL CLEARANCE OF 2.0 MTPA BHOJUDIH NLW
WASHERY FOR THE PERIOD FROM.
October 2023-March 2024

Present Status of 2.0 MTPA Bhojudih NLW Washery –WASHERY CONSTRUCTION WORK IS CONTINUED.

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

A-SPECIFIC CONDITIONS:

Sl. No.	Description of items	Compliance Status
(i)	The technology so chosen should conform to "Zero Liquid Discharge".	The washery construction is in process. The washery will be constructed on Zero Discharge concept. All the process water will be recycled and will be re-utilized in the process circuit.
(ii)	Thick green belt of 30-45 meter width to be provided around the washery to mitigate/check the dust pollution. A three-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads.	Thick green belt around the washery and three tier avenue plantation along vacant areas near washery, storage yards, loading points and transfer points will be developed, during construction of washery (500 saplings have been planted).
(iii)	Washery shall be as per Project Report submitted and presented to the EAC.	The Washery will be constructed as per presentation made to EAC and Project Report.
(iv)	Transport of Raw coal, clean coal, middling and reject by rail with wagon loading through silo.	The washery installation is in process. This condition will be complied at the time of washery operation.
(v)	Reject will be used in Power Generation for which JV Co. has been formed between CIL & NTPC.	The washery installation is in process. This condition will be complied per updated Reject Policy 2021.
(vi)	Old Washery at Bhojudih shall be shut down on commissioning of this new Washery.	The condition shall be complied after operationalization of Washery. If any amendment in the said condition is required for operation same shall be made within timeline.
(vii)	Urgent action is required to reduce Pollution from present Washery.	No. of steps already been taken to minimize air as well as water pollution. I. Current washery is running in a close circuit and no waste water is discharged in the natural water bodies, water is pumped back in the flow circuit from the sedimentation ponds. II. Fixed type sprinklers installed and mobile water tankers are also used in the current washery.

		III. Conveyors are provided with enclosures. IV. Fixed water sprinkling arrangement is present at the coal receiving point. V. Extensive plantation has been done inside and around the current washery premises.
(viii)	Waste Water shall be effectively treated and recycled completely either for washery or maintenance of green belt around the plant.	Washery will run on zero discharge concept. In the proposed washery, industrial effluent will be treated in a series of sedimentation pond and treated effluent will be recycled in the flow circuit of plant, leading to zero discharge from washery premises. It will be complied.
(ix)	The assurances given during the Public Hearing and as per the Action Plan developed by the proponent should be implemented.	Public hearing assurances will be complied.
(x)	Three-tier green belt should be developed along the washery boundary and along transfer and loading points and railway siding to mitigate/check dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads.	Three tier green belt along the washery boundary and along transfer and loading points and railway siding will be developed. A three tier avenue plantation along vacant areas near washery, storage yards, loading points and transfer points will also be developed.
(xi)	Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.	The washery installation is in process. This condition will be complied when washery operation starts. To check fugitive emissions at transfer points, crushing operations & transportation roads, High efficiency bag filters and mist spray water sprinkling systems will be installed.
(xii)	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with mechanical sweepers.	The washery installation is in process. This condition will be complied at the time when washery operation starts.
(xiii)	Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website.	The washery installation is in process. This condition will be complied at the time when washery operation starts.

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(xiv)	No groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures.	The washery installation is in process. This condition will be complied at the time when washery operation starts.															
(xv)	Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website.	This condition will be complied at the time when washery operation starts.															
(xvi)	Heavy metal content in raw coal, and washed coal shall be analyzed once in a year and records maintained thereof.	This condition will be complied at the time when washery operation starts.															
(xvii)	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	This condition will be complied at the time when washery operation starts. BCCL will access/identify CSR activity in consultation with local people for needful action. Expenditure in the head of welfare at existing Bhojudih coal washery are as follows: <table border="1"> <thead> <tr> <th>S.NO</th><th>Details</th><th>Rs. (Lakhs)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Repair of community hall at Bhojudih Coal Washery.</td><td>4.88</td></tr> <tr> <td>2</td><td>Repair of Dispensary building at Bhojudih Coal Washery.</td><td>5.22</td></tr> <tr> <td>3</td><td>Overhauling of Water Treatment plant.</td><td>3.43</td></tr> <tr> <td>4</td><td>Rest Shelter.</td><td>0.84</td></tr> </tbody> </table>	S.NO	Details	Rs. (Lakhs)	1	Repair of community hall at Bhojudih Coal Washery.	4.88	2	Repair of Dispensary building at Bhojudih Coal Washery.	5.22	3	Overhauling of Water Treatment plant.	3.43	4	Rest Shelter.	0.84
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3	Overhauling of Water Treatment plant.	3.43															
4	Rest Shelter.	0.84															
(xviii)	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	It will be complied.															

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(xix)	Corporate Environment Responsibility: - The Company shall have a well laid down Environment Policy approved by the Board of Directors. - 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. - 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. - 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.	- The company already have a well laid down environment policy duly approved by its Board of Directors. - Agreed - Hierarchical system or Administrative Order of the company to deal with environmental issues is attached (Annexure A) - An Environment dept. at BCCL HQ looks after the infringements, deviations, violations of Environment and Forest Norms, environmental issues, compliances etc. for all the units running in BCCL.
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B. GENERAL CONDITIONS

	Descriptions of items	Compliance
i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment. Forests & Climate Change.	This washery will not change its technology without prior approval from MoEF&CC.
ii)	No change in the calendar plan of production for quantum of mineral coal shall be made.	It will be complied when the washery operation starts.
iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM ₅ , SO ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	Once the washery comes in operation, four ambient air quality stations shall be established on the core zone as well as buffer zone for the monitoring of PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x and will follow the guidelines of state pollution control board. It will be complied when the washery operation starts. However, the ambient air quality test presently being carried out at one station is enclosed as ANNEXURE – I . The work of monitoring of ambient environment (air quality monitoring and water quality monitoring including monitoring of heavy metals is being carried

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		out by CMPDIL.)
iv)	Data on ambient air quality (PM ₁₀ , PM 25, SO) and NO,) and heavy metals such as Hg, As, Ni. Cd. Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	It will be complied when the washery operation starts.
v)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Adequate measures will be taken when the washery operation starts depending upon the operational requirement. Noise level quality monitoring is being regular done at old Bhojudih Washery. Ambient noise level report of old Bhojudih washery is enclosed as <u>ANNEXURE -II.</u>
vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	It will be complied once the washery operation starts.
vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	It will be complied during washery operation.
viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules. 1986.	Agreed & Noted
ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	It will be complied during operation.

x)	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	It will be complied during operation.
xi)	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	A separate Environment Management cell dedicated towards the implementation of well framed environmental policy of the company, will be formed at Project before the start of operation.
xii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	It will be complied during operation.
xiii)	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at http://envfor.nic.in .	Complied. Copy of advertisements is attached in <u>ANNEXURE -III.</u>
xiv)	A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad. Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	Complied. Copy of the letters is attached in <u>ANNEXURE-IV</u>
xv)	A copy of the environmental 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 Sector and Collector's Office/Tehsildar's Office for 30 days.	Complied.
	The clearance letter shall be uploaded on the	Complied.

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xvi)	company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring, data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM ₁₀ , PM _{2.5} , SO ₂ and NO _x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	
xvii)	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.	Being Complied.
xviii)	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	Agreed & Noted.
xix)	The Environmental statement for each financial year ending 31 March in Form – V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.	Environmental Statement enclosed in <u>ANNEXURE -V</u>


 15.4.24
 PO/EIC
Project Officer / EIC
 2.0 Mtpa Bhojudih NLW Washery

 2.0 MTPA Bhojudih NLW Washery
 BCL

**ORGANISATIONAL STRUCTURE FOR
ENVIRONMENT MANAGEMENT**

ANNEXURE - A

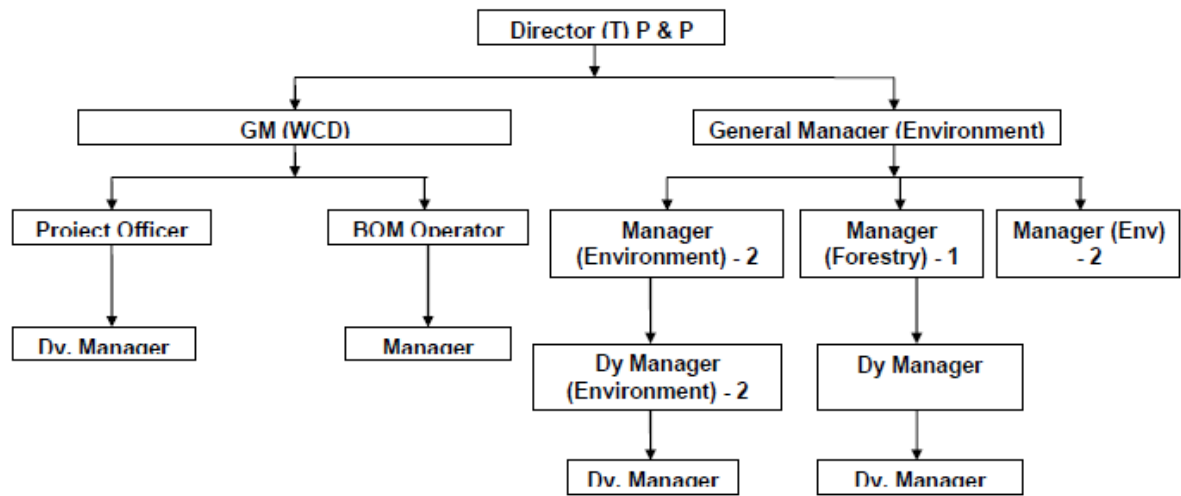
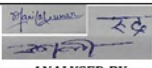
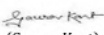
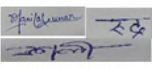
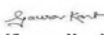


CHART - 1

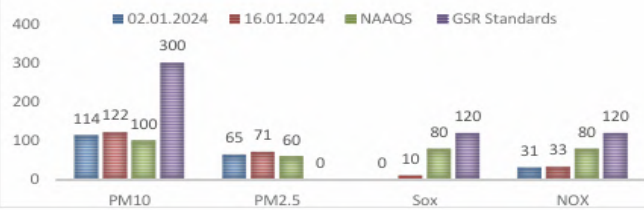
ANNEXURE -I

AMBIENT AIR QUALITY DATA

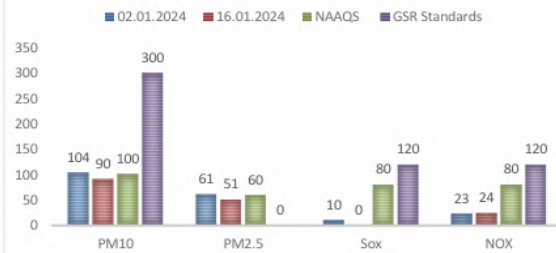
 cmpdi <i>A Min. Rules Company</i>		CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED Environment Laboratory, Regional Institute-II Ambient Air Quality Test Report				CMPDIL, RI-II KOYLA BHAWAN COMPLEX DHANBAD. -826005 Phone:0326-223-850 email: rdri2cmpdi@coalindia.in		
Test Report for Ambient Air Samples								
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	Bhojudih Washery-Industrial Area	Sample Ref. No.	REM/BCCL/2024/01	Sampling Method		CMPDI/RI-II/LPM 11, (IS 5182)		
Date of Sampling	02.01.2024	16.01.2024	Period of Analysis	02.01.2024	29.02.2024	Zone of Station:	CORE ZONE	
Sl. No.	Parameter	Method Analysis of	Observed Values (in $\mu\text{g}/\text{m}^3$)		Range Of Testing	LDL	MoEF Standards Notification dated 25 th September,2000 (GSR 742 E)	NAAQS, 2009
			1 st FN A1669	2 nd FN A1717				
1	PM ₁₀	IS -5182(Part 23):2006, R-2017	114	122	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 _{2.5}	IS -5182(Part 24):2019	65	71	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 ₂	IS-5182(Part-2): 2001, R-2017	<10	10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120	80
4	NO ₂	IS-5182 (Part-6): 2006, R-2017	31	33	06 $\mu\text{g}/\text{m}^3$ - 420 $\mu\text{g}/\text{m}^3$	06 $\mu\text{g}/\text{m}^3$	120	80
* LDL indicates Lower Detection Limit,								
**All units are in $\mu\text{g}/\text{m}^3$, 24 hourly Average,								
 ANALYSED BY		 REVIEWED BY (Gaurav Kant)		 Authorised Signatory (Amit Raj Mishra)				
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 <i>A Min. Rules Company</i>		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								
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	Santalidih Bhojudih washery buffer	Sample Ref. No.	REM/BCCL/2024/01	Sampling Method		CMPDI/RI-II/LPM 11, (IS 5182)		
Date of Sampling	02.01.2024	16.01.2024	Period of Analysis	02.01.2024	29.02.2024	Zone of Station:	BUFFER ZONE	
Sl. No.	Parameter	Method Analysis of	Observed Values (in $\mu\text{g}/\text{m}^3$)		Range Of Testing	LDL	MoEF Standards Notification dated 25 th September,2000 (GSR 742 E)	NAAQS, 2009
			1 st FN A1670	2 nd FN A1718				
1	PM ₁₀	IS -5182(Part 23):2006, R-2017	104	90	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 _{2.5}	IS -5182(Part 24):2019	61	51	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 ₂	IS-5182(Part-2): 2001, R-2017	10	<10	10 $\mu\text{g}/\text{m}^3$ - 1050 $\mu\text{g}/\text{m}^3$	10 $\mu\text{g}/\text{m}^3$	120	80
4	NO ₂	IS-5182 (Part-6): 2006, R-2017	23	24	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		 REVIEWED BY (Gaurav Kant)		 Authorised Signatory (Amit Raj Mishra)				
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								

AMBIENT AIR QUALITY AT BHOJUDIH WASHERY



AMBIENT AIR QUALITY AT SANTALDIH BHOJUDIH BUFFER



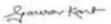
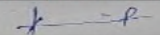
Annexure -II

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 cmpdi <i>A Mini Ratna Company</i>		CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED Environment Laboratory, Regional Institute-II Ambient Noise Level Test Report				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	Bhojudih Washery	Sample Ref. No.	REM/BCCL/2024/01		Sampling Method	CMPDI/RI-II/LPM 22			
			Date of Sampling	02.01.2024	16.01.2024	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	48.8	48	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	49.1	50					
3		08:00 - 09:00	53.6	52.7					
4		09:00 - 10:00	57.4	56.6					
5		10:00 - 11:00	53.3	55.1					
6		11:00 - 12:00	55.3	54.6					
ssss7		12:00 - 13:00	54.5	56.2					
8		13:00 - 14:00	60.6	62.9					
9		14:00 - 15:00	51.6	53.4					
10		15:00 - 16:00	50.5	51.5					
11		16:00 - 17:00	48.8	49.3					
12		17:00 - 18:00	48.4	48.4					
ss13		18:00 - 19:00	47.3	47.4					
14		19:00 - 20:00	42.3	47.3					
15		20:00 - 21:00	42	46					
16		21:00 - 22:00	42.7	45.5					
ssss	Noise Level dB(A) Leq - Night	Leq Day	53.3	54.5	CPCB, Protocol for Ambient Level Noise Monitoring - 2015	35 dB-135 dB	35 dB(A)	Industrial Commercial Residential Silence	70 55 45 50
1		22:00-23:00	41.6	43.3					
2		23:00- 00:00	41.7	41					
3		00:00- 01:00	41.1	40.6					
4		01:00-02:00	40.6	39.6					
5		02:00-03:00	40.3	39.7					
6		03:00-04:00	40.2	39.6					
7		04:00-05:00	41.3	41.2					
8		05:00-06:00	41.9	41.6					
		Leq Night	41.1	41.0					

*LDL indicates Lower Detection Limit

**All noise measurements are integrated for a 01 hour period, All units in dB(A)

Sampling Assistants ANALYSED BY	 (Gaurav Kant) REVIEWED BY	 (Amit Raj Mishra) Authorised Signatory
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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.

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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	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	Santhaldih Bhojudih buffer	Date of Sampling	02.01.2024	16.01.2024	Zone Category of Station:	Buffer 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	43.7	42.5	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	45.5	44.2					
3		08:00 - 09:00	44.5	43.2					
4		09:00 - 10:00	45.6	44.1					
5		10:00 - 11:00	45.8	45					
6		11:00 - 12:00	54.8	53.1					
7		12:00 - 13:00	53.3	53.2					
8		13:00 - 14:00	54.2	53.1					
9		14:00 - 15:00	56.3	53.2					
10		15:00 - 16:00	54.5	53.3					
11		16:00 - 17:00	53.2	53.3					
12		17:00 - 18:00	47.5	49.1					
13		18:00 - 19:00	46.9	47.8					
14		19:00 - 20:00	45.5	44.9					
15		20:00 - 21:00	44.5	43.5					
16		21:00 - 22:00	44.2	43.2					
	Leq DAY		51.1	50.0					
1	Noise Level dB(A)Leq - Night	22:00-23:00	43.3	43.2	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	43.3	42.8					
3		00:00- 01:00	43.2	42.6					
4		01:00-02:00	40	40.5					
5		02:00-03:00	39.3	40.2					
6		03:00-04:00	38.9	40.1					
7		04:00-05:00	39	40.3					
8		05:00-06:00	40.2	42.5					
	Leq NIGHT		41.3	41.7					

**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)
REVIEWED BY

Raj Mishra
Authorised Signatory

(Amit)

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



भारत कोकिंग कोल लिमिटेड

(एक मिनीरल कम्पनी)

(कोल इण्डिया लिमिटेड का एक अंग)

सूचना

यह सभी सम्बंधितों की जानकारी के लिये है कि पर्यावरण वन और जलवायु परिवर्तन मंत्रालय ने भारत कोकिंग कोल लिमिटेड को भोजपूड़ी एन.एल.डब्ल्यू कोल वाशरी को निम्नानुसार पर्यावरण मंजूरी प्रदान की है।

क्रम सं.	प्रोजेक्ट नाम	अन्योथेन्स पत्र नं. एवं दिनांक
1	जिला पुरुलिया, पश्चिम बंगाल में स्थित 15 हे० के एरिया में 2 एमटीपीए क्षमता वाले भारत कोकिंग कोल लिमिटेड का भोजपूड़ी एन एल डब्ल्यू कोल वाशरी	जे-11015/432/2013/आई.ए. II (एम) दिनांक 10 अगस्त 2016

पर्यावरण मंजूरी प्रदान की गयी है जिसकी कॉपी पश्चिम बंगाल प्रदूषण नियंत्रण बोर्ड में उपलब्ध है और एम.ओ.ई.एफ.सी.सी के कार्यालय की वेबसाइट <http://envfor.nic.in> और भारत कोकिंग कोल लिमिटेड के कार्यालय की वेबसाइट <http://bcelweb.in> पर भी देखा जा सकता है।



ভারত কোকিং কোল লিমিটেড

এ মিনি রজা কোম্পানি

(কোল ইন্ডিয়া লিমিটেড এর একটি সহায়ক)

বঙ্গলাভবন, কয়লানগর, ধানবাদ-৮২৬০০৫

পর্যাবরণ বিভাগ

বিজ্ঞপ্তি

সকল সংশ্লিষ্ট ব্যক্তিদের সূচিত করা হইতেছে যে পর্যাবরণ, বন এবং জলবায়ু পরিবর্তন মন্ত্রালয় থেকে ভজুডি এনএলডব্লু কোল ওয়াশাডি প্রজেক্ট, ভারত কোকিং কোল লিমিটেড এর পর্যাবরণীয় স্বীকৃতি প্রাপ্ত হইয়াছে, যাহা নিম্ন প্রকার :-

ক্রম সংখ্যা	প্রজেক্ট এর নাম	স্বীকৃতিপত্র সংখ্যা এবং তারিখ
১.	পুরুলিয়া জিলার অন্তর্গত পশ্চিমবঙ্গে অবস্থিত ভারত কোকিং কোল লিমিটেড এর ভজুডি এনএলডব্লু কোল ওয়াশাডি প্রজেক্ট, যাহার ক্ষেত্র ১৫ হেক্টর এবং উৎপাদন ক্ষমতা ২.০০ মিলিয়ন টন প্রতি বর্ষ।	J-11015/432/2013-IA. II(M), 10 আগস্ট 2016

পর্যাবরণীয় স্বীকৃতির প্রতিলিপি পশ্চিমবঙ্গ রাজ্য প্রদূষণ নিয়ন্ত্রণ বোর্ড-এ উপলব্ধ আছে এবং ইহা পর্যাবরণ, বন এবং জলবায়ু পরিবর্তন মন্ত্রালয়-এর আধিকারিক ওয়েবসাইট <http://envfor.nic.in> এবং ভারত কোকিং কোল লিমিটেড-এর আধিকারিক ওয়েবসাইট <http://bcelweb.in> এ দেখা যাইবে।

The Telegraph/Kol on 8/10

TENDER



Bharat Coking Coal Limited

'A Mini Ratna Company'

(A Subsidiary of Coal India Limited)

NOTICE

This is for information of all concerned that Ministry of Environment, Forest & Climate change has granted Environment Clearance to Bhojudih NLW Coal Washery of Bharat Coking Coal Limited as following :

Sl. No.	Project Name	Clearance Letter No. & Date
1.	Bhojudih NLW Coal Washery of Bharat Coking Coal Limited with 2MTPA capacity in an area of 15 Ha located in district Purulia, West Bengal.	J-11015/432/2013/1A.II (M) dated 10 August 2016

The Environment Clearance is granted vide copy of which is available with West Bengal Pollution Control Board and can be seen at official website of MOEFCC at <http://envfor.nic.in> and at official website of Bharat Coking Coal Limited at <http://bcclweb.in>

ANNEXURE IV

ANNEXURE IV

Office of the Project Officer
Bhojudih Coal Washery,
Santaldih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited
Regd. Off: Koyla Bhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GO100091H
Ph: 0326-2222644 FAX: 0326-2222611

Ref. No. PO:BJ:PS:16-17/- 109

Dt: 10.09.2016

To,
The General Manager, D.I.C
Purulia, WB

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

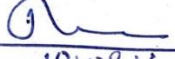
Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Yours faithfully


10.09.16
Project Officer

Bhojudih Coal Washery



o/c

Office of the Project Officer
Bhojudih Coal Washery,
Santaldih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited)
Regd.Off: KoylaBhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GO1000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No.PO:BJ:PS:16-17/-

Dt: 10.09.2016

To,
The Sabhadhipati, Purulia Zilla Parishad
Purulia, West Bengal

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Yours faithfully

10.09.16
Project Officer

Bhojudih Coal Washery



Office of the Project Officer
Bhojudih Coal Washery,
Santalidih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited)
Regd.Off: KoylaBhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GO1000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No.PO:BJ:PS:16-17/- 109

Dt: 10.09.2016

To,
The District Magistrate,
Purulia District, West Bengal

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Yours Faithfully


10.09.16
Project Officer

Bhojudih Coal Washery

OK



Office of the Project Officer
Bhojudih Coal Washery,
Santalidih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited
Regd. Off: Koyla Bhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GO1000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No. PO:BJ:PS:16-17/- 109

Dt: 10.09.2016

To,
The SDO, Raghunathpur Sub-Division
Purulia, West Bengal

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated: 10.08.2016 for Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Yours faithfully,

10.09.16

Project Officer

Bhojudih Coal Washery

O/c



Office of the Project Officer
Bhojudih Coal Washery,
Santalalih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited)
Regd.Off: KoylaBhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GOI000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No.PO:BJ:PS:16-17/-109

Dt: 10.09.2016

To,
The Block Development Officer, Raghunathpur-II Block
Cheliyama, Purulia

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA
of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West
Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of
Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal
Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava,
Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as
per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Yours Faithfully

10.09.16
Project Officer

Bhojudih Coal Washery



Office of the Project Officer
Bhojudih Coal Washery,
Santalidih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited)
Regd.Off: KoylaBhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GO1000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No.PO:BJ:PS:16-17/-1097

Dt: 10.09.2016

To,
The BLRO, Raghunathpur-II Block
Cheliyama, Purulia

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Received
12/9/16
For BL & L.R.O
R.N.Pur-II, Purulia

Yours Faithfully

10.09.16
Project Officer

Bhojudih Coal Washery

o/c

Office of the Project Officer
Bhojudih Coal Washery,
Santaldih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited)
Regd.Off: KoylaBhawan, Koyla Nagar,
Dhanbad - 826005
CIN : U10101JH1972GO1000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No.PO:BJ:PS:16-17/- 109

Dt: 10.09.2016

To,
The Block Sabhapati, Raghunathpur-II Block
Cheliyama, Purulia

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.



o/c

Yours Faithfully,

10.09.16
Project Officer

Bhojudih Coal Washery

Office of the Project Officer
Bhojudih Coal Washery,
Santalalidih,
Dist: Purulia,
West Bengal
Pin: 723145



Bharat Coking Coal Limited
A Subsidiary of Coal India Limited
Regd. Off: Koyla Bhawan, Koyla Nagar
Dhanbad - 826005
CIN : U10101JH1972GO1000918
Ph: 0326-2222644 FAX: 0326-2222642

Ref. No. PO:BJ:PS:16-17/- 109

Dt: 10.09.2016

To,
The Panchayet Pradhan
Chelivama G.P., Purulia

Sub: Regarding Environmental Clearance for Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal).

Dear Sir,

Enclosed herewith please find a letter no. J-11015/432/2013-IA-II(M) dated:10.08.2016 of Environmental Clearance of Bhojudih NLW Coal Washery Project of 2.0 MTPA of M/s Bharat Coking Coal Limited in an area of 15 ha located in District- Purulia (West Bengal) issued by Sri S.K. Srivastava, Scientist E of Ministry of Environment, Forest & Climate Change, New Delhi for your kind information as per guidelines of MoEF.

Please acknowledge this.

Thanking you

Encl: A.S.

Yours faithfully,

10.09.16
Project Officer

Bhojudih Coal Washery



ANNEXURE -V

FORM V (See Rule 14)

Environmental Statement for the financial year ending on 31st March 2024

PART A

- (i) Name and address of the owner/ occupier of the industry operation or process.
Name : Sh. P C Jha
Design. :Project Officer/EIC 2.0 MTPA Bhojudih Washery
Address: Post -Neori Vikas ,Ranchi- 835217
Industry category Primary-Orange Catagory.
- (ii) Production capacity-2.0 MTPA (Peak production Capacity) as per EC granted to 2.0 MTPA Bhojudih NLW Coal Washery by MoEF&CC.
- (iii) Year of establishment - 2024
- (iv) Date of the last environmental statement submitted. - NA

PART B

Water and Raw Material Consumption

I. Water consumption in m3/ d – 720 Cu.Meter/day(at Peak production)

Name of Products	Process water consumption(Cu.Mtr/Day)	
	During the previous financial year	During the Current financial year
1. Clean Coal	NIL	NIL
2. Washed Power Coal	NIL	NIL
3. Rejects	NIL	NIL

Pu

II) Raw material consumption

Name of Raw Material		Consumption of raw material	
		During the previous financial year	During the Current financial year
Raw Coal	1. Clean Coal, Washed Power Coal, Rejects	NIL	NIL
Magnetite	1. Clean Coal, Washed Power Coal, Rejects	NIL	NIL

PART C

Pollution discharged to environment/ unit of output.

Pollutants	Quantity of pollutants discharged(mass/day)	Concentration of pollutants discharged(mass/day)	Percentage of variation from prescribed standards
a) Water	Washery to be operated under zero liquid discharge		
b) Air	NIL		
c) Noise	NIL		

PART D

Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the Current financial year
1. From Process	NIL	NIL
2. From Pollution Controlled facilities	NIL	NIL
Burnt Oil	NIL	NIL

PART E

Run

Solid Wastes

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the Current financial year
1. From Process	NIL	NIL
2. From Pollution Controlled facilities	NIL	NIL
Burnt Oil	NIL	NIL

PART F

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

As mentioned in Part D & Part E of this statement, no quantity of hazardous as well as solid wastes has been generated. After commissioning of the washery, Burnt oil(spent oil/used oil) will be disposed off to a disposal facility through E-auction on MSTC portal, a Govt. of India Undertaking.

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- In order to carry out washery operations in eco-friendly manner the following pollution control measures will be adopted after commissioning of the washery.
- Water sprinkling will be done on coal transportation road by mobile water tanker.
- Regular sprinkling of water at coal transfer and loading points as well as other dusty areas will be done.
- Code of conduct for washeries will be followed.
- Safety equipment such as safety helmets, ear muffs, gumboots etc. will be provided to operators and others exposed to high level noise.

PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution.

- Ambient environment monitoring will be continued as per guidelines of MoEF&CC and West Bengal State Pollution Control Board.
- Continuous Monitoring online PM10 analyser will be installed in the washery.
- The conveyor belt transfer points will be fitted with fixed water sprinkling arrangements for dust suppression.

PART I



Any other particulars for improving the quality of the environment.

- Water sprinkling: Regular water sprinkling will be done on coal transportation route.
- Road Maintenance: Regular maintenance of roads will be carried out.
- Plantation will be done on boundary of slime pond.



Project Officer

2.0 MTPA Bhojudih Washery
Project Officer / EIO

2.0 MTPA Bhojudih NLW Coal Washery
BCCL