

केवल नागपुर कोर्ट के अधिकार क्षेत्र में

Under Jurisdiction of Nagpur Court only



वेस्टर्न कोलफील्ड्स लिमिटेड/Western Coalfields Limited

मिनिरल कम्पनी (A Miniratna Company)

कोल इंडिया लिमिटेड की अनुषंगी कम्पनी (A Subsidiary of Coal India Limited)

CIN-U10100MH1975GOI018626



उपक्षेत्रीय प्रबंधक कार्यालय, अम्बाडा उपक्षेत्र, कन्हान क्षेत्र
पता: गुडी, अम्बाडा पो:पालाचौरड, जिला:छिन्दवाड़ा (म.प्र.)
फिन:480449

Email: wclambarasubarea@gmail.com

Office of The Sub Area Manager, Ambara Sub Area, Kanhan Area

Address: Gudhi Ambara, PO: Palachouri, Dist: Chhindwara, M.P PIN: 480449

Phone: 7587595600

07160-268023(O), 268029(R)

संदर्भ:-पत्र क्र. वेकोलि/कन्हान/अ.स./उ.क्षे.प्र/35/2026-160

दिनांक 25.05.2026

प्रति,

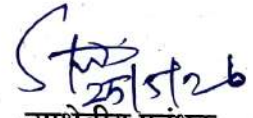
1. Regional Officer,
Integrated Regional Officer(Bhopal), MOEF&CC,
Kendriya Paryavarn Bhavan, Link Road No.3,
E-5, Ravishankar Nagar, Bhopal-462016(M.P)

2. Director (Monitoring Cell), MOEF&CC,
Indira Paryavarn Bhayan, Jorbag Road, Aligunj,
New Delhi-110003

विषय: Submission of Six Monthly EC Compliance Report of Sharda UG Mine (EC letter no J-11015/154/2008/IA.II (M) dated 16.02.2011 For production Capacity 0.315 MTPA in Area of 307.50 HA) for the period of Oct-2025 to March 2026 .

महोदय,

Reference to the above subject, please find enclosed herewith Six Monthly EC Compliance Report of Sharda UG Mine of Kanhan Area, WCL for the period of Oct-2025 to March 2026 for kind perusal.


उपक्षेत्रीय प्रबंधक
अम्बाडा उपक्षेत्र

प्रतिलिपि:

1. महाप्रबंधक (माइनिंग) /विभागाध्यक्ष (पर्यावरण) वेकोलि मुख्यालय, नागपुर
2. क्षेत्रीय महाप्रबंधक, कन्हान क्षेत्र
3. क्षेत्रीय नोडल अधिकारी (पर्यावरण), कन्हान क्षेत्र

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**WORLD
ENVIRONMENT
DAY**



SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

SHARDA UG MINE

(0.315 MTPA IN AREA OF 307.50 HA)

**EC NO. - J-11015/154/2008/IA.II DATED
16.02.2012**



**WESTERN COALFIELDS LIMITED
KANHAN AREA
PO: DUNGARIA, CHHINDWARA (MP)-480553
PERIOD – OCTOBER 2025 TO MARCH 2026**

Western Coalfields Ltd.



Present Status

Kanhan Area

Sharda U/G

(0.315 MTPA)

S. No.	Content
1.	Data Sheet
2.	EC Letter (0.315 MTPA)
3.	Implementation of Environmental Clearance Condition
4.	Letter to Sarpanch (0.315 MTPA)
5.	Accreditation Certificate Environmental Laboratory
6.	Environment Management at Sharda UG mine- Air Pollution and Water Pollution Control Measures
7.	Paper publication (0.315 MTPA)
8.	Copy of CTO
9.	Site Plan
10.	Environment Monitoring Reports for period Oct-25 to Mar- 26
11.	Groundwater Monitoring Report for period Oct-25 to Mar- 26
12.	Copy of Approved Mine Closure Plan

Monitoring Implementation of Environmental Safeguards

Ministry of Environment & forest
Western Regional, Regional office, Bhopal
MONITORING REPORT

DATA SHEET

Sr. No.	Particulars	Details
1	Project type : River-Valley/Mining/Industry/Thermal/Nuclear/Other (Specify)	Coal mining.
2.	Name of Project	Sharda Underground
3.	Clearance letter (s) OM No. & date	MOEF No J-11015/154/2008/IA.II (mining) dated 16.02.2012
4	Location a). Districts b). State (S) c) .Location Latitude/ Longitude	Chhindwara Madhya Pradesh Village: Jamkunda, Tehsil - Junnardeo N 22 ⁰ 11' 16'' to 22 12' 46'' E 78 ⁰ 37' 36'' to 78 39' 05''
5	Address for Correspondence a) Address of the Concerned Project Chief Engineer (With Pin Code & telephone/ telex / fax numbers)	AREA GENERAL MANAGER, KANHAN AREA, WCL POST- DUNGARIYA, TAH – JUNNARDEO, DISTT CHHINDWARA (MP) - 480553 07160-231245-48 07160-230504
	b) Address of the Executive/ Project Engineer/ Manager (With Code & telephone / telex/ fax/ numbers)	i.) SUB AREA MANAGER, AMBARA SUB AREA, WCL KANHAN AREA DIST- CHHINDWARA (M.P.), PIN- 480449 Phone: 07160-268023 07160-268029 ii) Mine Manager – Shri Swapnil Awasthi, Sharda Underground PO.- PALACHOURAI, DIST- CHHINDWARA (M.P.) - 480449

	d) Whether includes the cost of environmental management as shown in above	YES																								
	e) Actual expenditure incurred on the environmental management plans so far	8.69 lakhs																								
10	Forest land requirement a) The status of approval for diversion of forest land for non-forestry use.	Forest clearance has been obtained for 9.5 Ha.on date 09.07.2014.																								
	b) The status of clearing /felling	72 trees felled out of 450. Remaining trees likely to be retained																								
	c) The status of compensatory afforestation, if any	Shall be Complied as per Forest Conservation Act, 1980.																								
	d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	Shall be Complied as per Forest Conservation Act, 1980.																								
11	The status of clear felling in non –forest areas (such as submergence area of reservoir, approach road etc) if any with quantitative information required	NOT APPLICABLE																								
12	Status of construction (Actual & or Planned) a) Date of commencement (Actual & or Planned)	Work for establishment of mine started from 06 th June 2020.																								
	b. Date of completion (Actual & or planed)	Work for establishment of mine started from 06 th June 2020 and has been completed.																								
13	Reason for delay, if project is yet to start	NOT APPLICABLE																								
14	Date of site visit a) Date on which the project was monitored by the Regional office on previous occasions if any site visit b) Date of site visits for this Monitoring report	NOT APPLICABLE																								
15	Details of corresponding with project authorities for obtaining action plans /information on status of compliance to safeguards other than the routine letters for logistic support for site visits) (The first monitoring report may contains the details of all the letter issued so far ,but the later report may cover only the letter issued subsequently)	Noted <table border="1"> <thead> <tr> <th>Head</th> <th>2023-24 (in lakhs)</th> <th>2024-25 (in lakhs)</th> <th>2025-26</th> </tr> </thead> <tbody> <tr> <td>1.Afforestation (Maintenance of plantation etc.</td> <td>--</td> <td></td> <td></td> </tr> <tr> <td>2. Air, water, noise quality monitoring</td> <td>44.17</td> <td>42.88</td> <td>94.73</td> </tr> <tr> <td>3.Water Cess/Payment to CGWA for obtaining NOC</td> <td></td> <td></td> <td>3.51</td> </tr> <tr> <td>4.Consent Fee</td> <td></td> <td></td> <td>18.45</td> </tr> <tr> <td>5. Water Pollution</td> <td>6.74 Lakhs</td> <td></td> <td></td> </tr> </tbody> </table>	Head	2023-24 (in lakhs)	2024-25 (in lakhs)	2025-26	1.Afforestation (Maintenance of plantation etc.	--			2. Air, water, noise quality monitoring	44.17	42.88	94.73	3.Water Cess/Payment to CGWA for obtaining NOC			3.51	4.Consent Fee			18.45	5. Water Pollution	6.74 Lakhs		
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5. Water Pollution	6.74 Lakhs																									

		control	(Fogger Cannon) 13.13 Lakhs (Wind Breaking wall)		
		Total	64.04 lakhs	42.88	116.69

FROM :

FAX NO. :

Feb. 16 2012 04:50AM P1



Ministry of Environment & Forests (MOEF)

No.J-11015/154/2008-IA.II (M)

Paryavaran Bhawan,
C.G.O.Complex, Lodi Road
New Delhi -110510

Dated: 16th February 2011

To,
CGM (E&F)
M/s Western Coalfields Ltd.,
Coal Estate, Civil Lines,
NAGPUR 440001.

Sub: Sharda Underground Coalmine Project (0.315 MTPA in an ML area of 307.50 ha) of M/s Western Coalfields Ltd., located in Pench-Kanhan Coalfields, Tehsil Junardeo, District. Chindwara, Madhya Pradesh

Sir,

This is with reference to your application vide letter No. 43011/18/2008-CPAM dated 25.03.2008 for Terms of Reference, which was granted vide letter dated 11.07.2008 and with reference to your application for environmental clearance based on the prescribed Terms of Reference vide letter No. CIL/DLI/ENV/2009 dated 22.12.2009 on the above-mentioned subject and your letters dated 05.03.2010, 09.07.2011 and MOEF letter No. 11-164/2010-FC dated 17.06.2011 with Report of Coal Mining in Pench-Kanhan Coalfields. The Ministry of Environment & Forests has considered the application. It is noted that the present proposal is for opening a new underground coalmine of a total ML area is 307.50 ha, of which 289.65 ha is agriculture land, 8.35 ha is wasteland and 9.50 ha is forestland. An area of 297 ha is under mining rights and 10.50 ha is surface rights of which 9.50 ha is forestland. There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 15 km buffer zone. The proposed project is 15 km from Satpura Tiger Reserve and 61.25 Km from Pench Tiger Reserve. The Pench-Satpura Tiger Corridor is at a distance of about 20km from the mine identified by the National Tiger Conservation Authority. River Pench flows at a distance of 8-9 km from the ML boundary. It is not proposed to modify the natural drainage. Stage-I Forestry Clearance for 9.50 ha of forestland of surface rights has been obtained vide FC letter dated 23.06.2010. Coal would be extracted by Board & Pillar method with caving by conventional drilling and blasting and transported to surface by belt conveyors. Coal would be transported to Palachauri Railway Siding at a distance of 8 km, which would be black topped and avenue plantation developed. Ultimate working depth of the mine is 338 m below ground level (bgl). Water table in the core zone is in the range of 6.05-18.10m bgl during pre-monsoon and 1.75-17.65m bgl during post-monsoon. Estimated water requirement for the project is 75 m³/day, which is to be met from mine water discharge. There are seven Reserve Forests Dhob, Khajari Phulsa, Kotakhan, Marwa, Kohania, Kotak and Cardei - located at a distance of 1.5 -10 km in the buffer zone. Subsidence study has been carried out in the adjacent mine with similar geo-mining characteristics and found to have no impact on subsidence. The project does not involve R&R. A provision of Rs 5/tonne of coal has been made for undertaking socio-economic activities for the adjoining villages under CSR. Life of the mine is 28 years. Public Hearing was held on 25.02.2009. The project has been approved by M/s WCL on 25.04.2008. Capital Cost of EMP is Rs 18.50 lakh. Capital Cost of the project is Rs 50.95 crores.

S/-1/5

5-2/5


2. The Ministry of Environment & Forests hereby accords environmental clearance for the above-mentioned **Sharda Underground Coalmine Project of Western Coalfields Ltd., for 0.315 MTPA production Mining lease area of 307.50 ha** under the provisions of the Environmental Impact Assessment Notification, 2006 and subsequent amendments and Circulars thereto and subject to conditions specified below:

A. Specific Conditions

- (i) The project proponent shall contribute on proportionate basis the amount required for implementation of the plans prepared by the National Tiger Conservation Authority (NTCA) for rejuvenation and restocking of the viable corridor and the mitigative measures to eliminate/minimise the adverse impacts of coal transportation mined from Pench-Kannan coalfields on the viable corridor, the precise boundary of which shall be identified by NTCA.
- (ii) Study of site specific aquifer characteristics, well inventories, pumping test at site, and correlation of subsidence prediction with hydrological attributes shall be undertaken and appropriate preventive and mitigative measures implemented.
- (iii) Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.
- (iv) Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.
- (v) Coal extraction shall be optimised in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No coal depillaring shall be undertaken below areas of habitation.
- (vi) High root density tree species shall be selected and planted over areas likely to be affected by subsidence.
- (vii) Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over an above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.
- (viii) Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Mobile sprinklers shall be provided in major haul roads and with high levels of PM₁₀/PM_{2.5}.
- (ix) Major approach roads shall be black topped and properly maintained. A 3-tier plantation using native which are effective as a shield in trapping fugitive dust shall be developed along all major roads, near CHP, coal bunker, infrastructure. A mist spray water sprinkling system shall be installed at the CHP and at transfer points.
- (x) Drills shall be wet operated only to avoid fugitive dust emissions.
- (xi) Areas along roads, infrastructure, along ML boundary and township outside the lease area, etc shall be developed as green belt by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Plantations shall be carried out immediately after the onset of monsoon.

- (xii) Regular monitoring of groundwater level and quality of the mine area and the surrounding villages in the impact zone shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Parameters such as F, TDS shall be also monitored and if levels are found to be high shall be treated before discharging in to surface water/land. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.
- (xiii) The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring of water table indicates a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (xiv) Mine discharge water particularly TDS shall be treated to conform to prescribed levels before discharge into the natural environment.
- (xv) ETP shall also be provided for treatment of effluents from workshop and the treated effluents shall be used for green belt development. Mine discharge water particularly TDS shall be treated to conform to prescribed levels before discharge into the surface waters/agricultural use.
- (xvi) Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through any health agency/institution in the district/State within a period of one year and the results reported to this Ministry and to DGMS.
- (xvii) For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.
- (xviii) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests within 6 months of grant of environmental clearance.
- (xix) The project proponent shall undertake a socio-economic survey for identifying and taking up need based specific socio-economic activities/ programmes/ schemes, which are required in the area. Monitoring of the impacts of activities under CSR shall be carried out periodically. Educational centers shall be established in the area to create awareness and for organising workshops, etc.

B. General Conditions

- (i) No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.
- (iii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO_x 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.
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- (iv) Fugitive dust emissions (PM₁₀ and PM_{2.5}) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.
- (v) Data on ambient air quality (PM₁₀, PM_{2.5}, SO_x and NO_x) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.
- (vi) 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.
- (vii) 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 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- (viii) Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- (ix) Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
- (x) Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures if needed and records maintained thereof.
- (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.
- (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 Regional Office at Bhopal.
- (xiii) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- (xiv) A copy of the will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xv) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xvi) The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>.
- 3 The Ministry or any other competent authority may stipulate any further condition for environmental protection.

FROM :

FAX NO. :

Feb. 16 2012 04:51AM P3

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S-5/5

4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.

5. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.



(Dr T. Chandini)
Director

Copy to:

1. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal - 462016.
4. Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal 462016.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
6. Member-Secretary, Central Ground Water Authority Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. Dr. R. K. Garg, Advisor, Coal India Limited, SCOPE Minar, New Delhi.
8. District Collector, Chindwara, Government of Madhya Pradesh.
9. Monitoring File 10. Guard File 11. Record File

**Name of Project: Sharda Underground Coalmines Project
(0.315 MTPA in an ML areas of 307.50 ha)**

MOEF Environmental Clearance Letter No. J-11015/154/2008-IA-II (M) Dated 16.02.2012

Status of Implementation of Environmental Clearance conditions

S. No.	Condition	Remarks / Action
A	Specific Condition	
(i)	The project proponent shall contribute on proportionate basis the amount required for implementation of the plans prepared by the National Tiger Conservation Authority (NTCA) for rejuvenation and restocking of the viable corridor and the mitigative measures to eliminate/minimize the adverse impact of coal transportation mined from Pench-Kanhan coalfields of the viable corridor the precise boundary of which shall be identified by NTCA.	Not applicable. There are no National parks, wild life sanctuary and biosphere reserve in the buffer zone. The proposed project is 15 km away from Satpura Tiger Reserve and 61.25 km away from Pench Tiger Reserve. The Pench – Satpura Tiger corridor is at a distance about 20 km from mine as identified by NTCA.
(ii)	Study of site specific aquifer characteristics well inventories, pumping test at site and correlation of Subsidence prediction with hydrological attribute shall be undertaken and appropriate preventive and mitigative measures implemented.	Noted for compliance. Work for establishment of mine started from 06 th June 2020. Groundwater monitoring and hydrogeology study is being regularly conducted. Copy of Ground water monitoring report enclosed for Oct-25 to Mar- 26
(iii)	Regular monitoring of subsidence movement on the surface over and around the working area and Impact on natural drainage pattern, water bodies vegetation structure roads and surroundings shall be Continued till movement ceases completely in case of observation of any high rate of subsidence Movement appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be corrective plugged with ballast and clayey soil/suitable material.	Regular monitoring of subsidence movement on the surface over and around the working area will be done and corrective measures shall be taken to avoid loss of life and material and cracks shall be plugged with suitable mineral materials.
(iv)	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits then the land owners shall be adequately compensated with mutual agreement of the landowners.	Noted for compliance. Subsidence will be monitored regularly. All norms as prescribed by DGMS shall be diligently followed.
(v)	Coal extraction shall be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No coal depillaring shall be undertaken below areas of Habitation.	Noted for compliance. Coal extraction shall be done below agricultural land in strict compliance of permissions received from DGMS for the purpose.
(vi)	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Noted for compliance. 100 no. of plants planted during Vanmahotsav 2024 along the mine boundary. Further plantation shall be taken up during the coming years.
(vii)	Garland drains (size gradient and length) around the safely areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety	Noted for compliance. Work for establishment of mine started from 06 th June 2020 and is completed. Garland

	margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.	drains shall be constructed around the low lying areas and around mine shaft before the monsoon.
(viii)	Water sprinkling system shall be provided to check fugitive emissions from loading operation, conveyor System, haulage roads, transfer points, etc. Mobile sprinklers shall be provided in major haul roads and with high levels of PM10/PM2.5.	Noted for compliance. Water sprinkling system shall be provided at coal stock yard and coal transport yard. A mist fogger cannon machine with 100 m throw radius is deployed to sprinkle water near coal stock yard and along coal transportation roads.
(ix)	Major approach roads shall be black topped and properly maintained A 3-tier plantation using native which are effective as a shield in trapping fugitive dust shall be developed along all major roads near CHP, coal bunker, infrastructure. A mist spray water sprinkling system shall be installed at the CHP and At transfer points.	Complied. Major approach roads have been black topped in the FY 2021-22. Presently avenue plantation of 1000 trees has been carried out at the periphery of the mine. A mist fogger cannon machine with 100 m throw radius is deployed to sprinkle water near coal stock yard and along coal transportation roads.
(x)	Drills shall be wet operated only to avoid fugitive dust emissions.	In U/G mine drilling in coal faces is done by portable hand held electric drill machine duly approved by DGMS and is wet operated to avoid dust emission.
(xi)	Areas along roads, infrastructure, along ML boundary and township outside the lease area etc. shall be Developed as green belt by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Plantations shall be carried out Immediately after the onset of monsoon.	Noted for compliance. Avenue plantation of 1000 trees has been carried out at the periphery of the mine.
(xii)	Regular monitoring of groundwater level and quality of the mine area and the surrounding village in the Impact zone shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (may), monsoon (August), post – monsoon (November) and winter (January) seasons and for quality in May. Parameters such F, TDS shall be also monitored and if levels are found to be high shall be treated before discharging in to surface water/ land . Data thus collected shall be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.	Regular groundwater monitoring, as specified in EC is being done through a certified agency- Anacon Laboratories. Other mines of WCL are in operation in the surrounding region. Annual groundwater monitoring reports and groundwater quality reports are submitted regularly to MOEF Regional Office and CGWB Regional Office. Groundwater monitoring report is enclosed.
(xiii)	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring of water table indicates a declining trend. The project authorities shall meet water requirement of nearby villages (S) in case the village wells go dry due to dewatering of Mine.	Noted for compliance. Water will be supplied to nearby villages through water tanker as and when required by the villagers.
(xiv)	Mine discharge water particularly TDS shall be treated	Noted for compliance.

	to conform to prescribe levels before discharge in to the natural environment.	The mine has two Sedimentation tanks of capacity 300 m ³ . The mine water discharged is treated in two stages settling-first at UG sump and subsequently at surface sedimentation tank.
(xv)	ETP shall also be provided for treatment of effluents from workshop and the treated effluents shall be used for green belt development. Mine discharge water particularly TDS shall be treated to conform to prescribed levels before discharge into the surface water/agricultural use.	This is a UG mine and there is no HEMM involved. Hence not applicable. For treatment of Mine water discharge to the prescribed levels two nos. Sedimentation tank are constructed.
(xvi)	Besides carrying out regular periodic health check up of their workers. 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment if any through if any through any health agency / Institution in the district/state within a period of one year and the result reported to this ministry and to DGMS.	Periodical medical examination (P.M.E.) are carried out compulsorily on each employee once in five years with the purpose of detecting and keeping the record of diseases with specific importance to the coal workers viz. Pneumoconiosis. During P.M.E. the candidates are subject to complete clinical examination reeling to occupational diseases and hearing impairment. As WCL is having all the infrastructure facilities to comply with all statutory obligations regarding occupational health survey of all its employees, help from external organization i.e.: NIOH, Ahmedabad is not required. PME conducted-364 nos. of employees and workers during the FY 2025-26 against a target of 434 nos. in WCL Kanhan Area.
(xvii)	For monitoring land use pattern and for post mining land use a time series of land use maps, based on satellite imagery (on a scale of 1 5000) of the core zone and buffer zone from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series) and the report submitted to MOEF and its Regional office at Bhopal.	Land use monitoring report based on satellite imagery for PENCH-KANHAN-TAWA valley coalfield is prepared by CMPDIL and uploaded on the company website. The report for the year 2020 can be accessed through the following weblink- http://103.59.142.228:8081/wclweb/TPK_CF_2020.pdf The same has also been submitted to MOEF.
(xviii)	A final Mine closure plan along with details of corpus fund shall be submitted to the ministry of Environment & forests within 6 month of grant of environment clearance.	Noted for compliance. Mine Closure plan is a part of the approved PR of the mine. Sharda UG mine has a provision of Rs. 868.12 Lakhs as Mine Closure Cost as per the revised Mine Closure Guidelines dated 29 th May 2020. Escrow account for Sharda UG mine has been opened in the FY 2020-21. Total Amount deposited in Escrow account

		of Sharda UG mine is 90.31 lakhs till date and balance as on 31/03/25 is INR 1,26,75,678.00/- .
(xix)	The project proponent shall undertake a socio economic survey for identifying and taking up need Based specific socio economic activities/programmers/schemes which are required in the area Monitoring of the impacts of activities under CSR shall be carried out periodically Educational Center shall be established in the area to create awareness and for organizing workshops etc.	The activities under CSR shall be carried out as per the requirement of Local Gram Panchayat/ Sarpanch.

B	General Condition	
(i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Noted for compliance.
(ii)	No change in the calendar plan including excavation quantum of mineral coal and waste shall be made.	Noted for compliance.
(iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the Buffer zone for PM ₁₀ PM _{2.5} SO _x 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.	Four ambient air quality monitoring stations has been decided at following points with consent of SRO (MPPCB) for core zone as well as buffer zone for monitoring. Monitoring has been commenced from Jan'23. <ol style="list-style-type: none"> 1. Near incline, Pit Office 2. Umaria Fadali Village 3. Tatarwada Village 4. Jumunbara Village In addition to this, for Air Quality monitoring purpose, CAAQMS has been commissioned from Nov'21 at a cost of 66.06 lakhs in the buffer zone of the Sharda UG mine, which is a common station for other nearby mines Ambara OC and Mohan UG mines of Kanhan Area, WCL. Monitoring reports attached for a period of Oct-25 to March 26.
(iv)	Fugitive dust emissions (PM ₁₀ and PM _{2.5}) from all the source shall be controlled, regularly monitored and date recorded properly. Water spraying arrangement on haul roads wagon loading dump trucks (loading & unloading) points shall be provided and properly maintained .	Noted for compliance. Rain guns are installed at coal stock yard and coal transport yard. A mist fogger cannon machine with 100 m throw radius is deployed to sprinkle water near coal stock yard and along coal transportation roads.
(v)	Data on ambient air quality (PM ₁₀ PM _{2.5} SO _x and NO _x)	Noted for compliance. Environmental

	shall be regularly submitted to the ministry Including its regional office at Bhopal and to the state pollution control board and the Central Pollution Control Board once in six months	monitoring including air quality monitoring shall be carried out in accordance with GSR 742 (E) dated 25.09.2000. Environment monitoring has been started from Jan 23 onwards. Monitoring reports for the period OCT-25 to MAR 26 enclosed.
(vi)	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.	Noted. This condition is not applicable to the underground mines as there is no usage of HEMM machine. However, the haulages, belt conveyor etc. are deployed in U/G. The noise level control measures in U/G are covered vide CMR 1957 and the prescribed norms shall be adhered to.
(vii)	Industrial wastewater (workshop and wastewater from the mine) shall be property collected treated so to as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge Oil and grease trap shall be installed before discharge of workshop effluents.	Noted. This is a UG mine and no HEMM shall be used. Hence, provision of Oil and Grease trap is not required. Environmental standards for mine water discharge shall be diligently followed.
(viii)	Vehicular emissions shall be kept under control and regularly monitored Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Being complied. All light vehicles like jeep, school buses, Ambulance used for mining activity are mandated to have a valid PUC certificate and the coal transporting vehicles shall be covered with tarpaulins.
(ix)	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control board.	Well established environmental laboratory exist at CMPDI, Nagpur which is also NABL accredited (Copy of NABL accreditation certificate enclosed). This laboratory shall be utilized for monitoring and analysis of air/mine water/ noise samples at the mine site.
(x)	Personnel working in dusty areas shall wore protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to Observe any contraction due to exposure to dust and to take corrective measures if needed and records maintained thereof.	Periodical medical examination(P.M.E.) are carried out compulsorily on each employee once in five years with the purpose of detecting and keeping the record of diseases with specific importance to the coal workers viz. Pneumoconiosis. During P.M.E. the candidates are subject to complete clinical examination reeling to occupational diseases and hearing impairment. As WCL is having all the infrastructure facilities to comply with all statutory obligations regarding occupational health survey of all its

		<p>employees, help from external organization i.e.: NIOH, Ahmedabad is not required.</p> <p>PME conducted-364 nos. of employees and workers during the FY 2025-26 against a target of 434 nos. in WCL Kanhan Area.</p>
(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.	There is a well established environmental cell at corporate HQ headed by GM (Env) reporting to Director (Tech) P&P. He is assisted by well qualified and trained team of Engineers of Mining, Civil and environment discipline. At Area level, the team is headed by GM (Operations) and assisted by Area Nodal Officer (Env). At project level the team is headed by Sub Area Manager of the project and is assisted by project Nodal Officer (Env).
(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 Regional Office at Bhopal.	Funds earmarked for environment are kept separate and are not utilized for any other purpose. Capital and revenue expenditure for environment related works is reported to the Ministry and MPPCB through six monthly reports and Environment Audit Statement respectively.
(xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated Condition the project authorities shall extend full cooperation to the office (s) of the Regional Office By furnishing the requisite date/ information/ monitoring reports.	Shall be complied.
(xiv)	A Copy of the will be marked to concerned Panchayat /local NGO if any from whom any suggestion representation has been received while processing the proposal.	Complied. Copy of letter enclosed.
xv)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office District industry centre and collectors Office /Tahsildar s Office for 30 days.	This is for MPPCB.
(xvi)	The Project authorities shall advertise at least in two local newspaper widely circulated around the project one of which shall be in the vernacular language of the locality concerned within seven days Of the clearance letter informing that the project has been accorded environmental clearance and a Copy of the clearance letter is available with the state pollution control board and may also be seen at the website of the ministry of Environment & Forests at http://tender.nic.in	Complied. Copy of advertisement is enclosed
3	The ministry or any other competent authority may	Noted for compliance.

	stipulate any further condition for environmental protection.	
4	Failure to comply with any of the condition mentioned above may result in withdrawal of the clearance and attract the provisions of the Environment (Protection) Act. 1986..	Noted for compliance.
5	The above condition will be enforced inter- alia, under the provisions of the Water (Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act, 1988 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.	Noted for compliance.



"Under Jurisdiction of Nagpur Court Only"
वेस्टर्न कोल फील्ड्स लिमिटेड
WESTERN COALFIELDS LIMITED
(A Govt. of India Enterprise)

पंजी.कार्या :- कोल स्टेट ए सिविल लाईन्स ए नागपुर -440 001

Regd. Office :- Coal Estets , Civil Lines Nagpur- 440 001

Ref. No. WCL/KAN/AG/Civil/Env/372

Date : 21.09.2012

To,
The Surpanch,
Gram Panchayat,
Jamkunda, Nazarpur & Palachourai.

(Regd - No)

Subject : Environment clearance for Sharda Underground Coal Mines Project near Jamkunda village, Distt. Chhindwara, M.P., of Production capacity 0.315 MTPA in an mining lease Area of 307.50 hactare.

Ref. letter No. J-11015/154/2008- IA II(M) Dt 16.02.2012

Dear Sir,

Enclosed please find herewith a copy of Environment clearance letter as mentioned to above reference for your record.

Thanking you.

Yours faithfully,

Mallu
Manager (Civil)
Ambara Sub Area

enclosure

1. EC of Sharda Project

वेस्टर्न कोल फील्ड्स लिमिटेड

(कोल ईंडिया का एक उपक्रम)

सूचना

विषय : वेस्टर्न कोल फील्ड्स लिमिटेड के कन्हान क्षेत्र की शारदा अंडर ग्राउंड कोल माइन्स जो अंबाड़ा उपक्षेत्र के अंतर्गत है कि भूमिगत खदान शुरु होने जा रही है जिसकी उत्पादन क्षमता 0.315 मिलियन टन प्रति वर्ष के लिए एवं पर्यावरण मंत्रालय द्वारा पर्यावरण स्वीकृति प्रदान की गई है। पर्यावरण स्वीकृति के पत्र की प्रतिलिपि मध्यप्रदेश प्रदूषण नियंत्रण के मंडल के पास उपलब्ध है। और पर्यावरण मंत्रालय के वेबसाइट पर भी देख सकते हैं।

<http://envfor.nic.in> 23-09-12 उप क्षेत्रीय प्रबंधक

अंबाड़ा उपक्षेत्र

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सूचना

विषय : वेस्टर्न कोल फील्ड्स लिमिटेड के कन्हान क्षेत्र की शारदा अंडर ग्राउंड कोल माइन्स जो अंबाड़ा उपक्षेत्र के अंतर्गत है कि भूमिगत खदान शुरु होने जा रही है जिसकी उत्पादन क्षमता 0.315 मिलियन टन प्रति वर्ष के लिए एवं पर्यावरण मंत्रालय द्वारा पर्यावरण स्वीकृति प्रदान की गई है। पर्यावरण स्वीकृति के पत्र की प्रतिलिपि मध्यप्रदेश प्रदूषण नियंत्रण के मंडल के पास उपलब्ध है और पर्यावरण मंत्रालय के वेबसाइट पर भी देख सकते हैं।

<http://envfor.nic.in>

नव दूजिया - 16.10.2012

उप क्षेत्रीय प्रबंधक

अंबाड़ा उपक्षेत्र

आर.पी. 54
R.P.-54

भारतीय डाक विभाग
DEPARTMENT OF POSTS-INDIA

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अनावश्यक को काट दिया जाए
Strike out if not relevant.

रजिस्ट्री-पत्र/पार्सल प्राप्त हुआ
Received Registered Letter / Parcel

क्रमांक/No. 1310 तारीख/Dated 23/10/12 का/of

● बीमे का मूल्य रुपयों में 1000/-
● Insured for Rupees 1000/-

पाने वाले
Addressed to

को / On

वितरण डाकघर की तारीख-मोहर
Date Stamp of Office of delivery

हस्ताक्षर और नाम/Signature and Name

आर.पी. 54
R.P.-54

भारतीय डाक विभाग
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● Insured for Rupees 1000/-

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Addressed to

को / On

वितरण डाकघर की तारीख-मोहर
Date Stamp of Office of delivery

हस्ताक्षर और नाम/Signature and Name

जमकुन्डा
JAMKUNDA B.O.
28/10/12
CHHINDWARA

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R.P.-54

भारतीय डाक विभाग
DEPARTMENT OF POSTS-INDIA

प्राप्ति स्वीकृति / ACKNOWLEDGEMENT

अनावश्यक को काट दिया जाए
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Received Registered Letter / Parcel

क्रमांक/No. 1311 तारीख/Dated 23/10/12 का/of

● बीमे का मूल्य रुपयों में 1000/-
● Insured for Rupees 1000/-

पाने वाले
Addressed to

को / On

वितरण डाकघर की तारीख-मोहर
Date Stamp of Office of delivery

हस्ताक्षर और नाम/Signature and Name

जमकुन्डा
JAMKUNDA B.O.
28/10/12
CHHINDWARA

कार्यालय कलेक्टर (आदिवासी विकास) छिन्दवाड़ा (म.प्र.)

प्रमाण पत्र

6/8/2011

क्रमांक 4759 /वन अधि/आ0वि0/2011/छिन्दवाड़ा, दिनांक

जुलाई 2011

1. प्रमाणित किया जाता है कि जिला छिन्दवाड़ा के जुन्नरदेव विकासखंड के ग्राम जमकुण्डा के जामई वन परिक्षेत्र के कक्ष क्रमांक 475 बी की 9.500 हेक्टर संरक्षित वन भूमि जो ग्राम जमकुण्डा के प0ह0नं0 26 के राजस्व अभिलेख में खसरा नंबर 48/4 रकबा 20.592 हेक्टर बड़े झाड़ के जंगल मद में दर्ज है में से 9.500 हेक्टर भूमि जो कि परासिया-जामई सड़क मार्ग के उत्तर दिशा में स्थित है, के उपरी तल कोयला उत्खनन हेतु वेस्टर्न कोल फील्ड्स लिमिटेड कन्हाण क्षेत्र के लिये व्यपवर्तन हेतु प्रस्तावित है, मे अनुसूचित जन जाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 के अंतर्गत व्यपवर्तन एवं अधिकारों के व्यवस्थापन की संपूर्ण प्रक्रिया पूर्ण की जा चुकी है।

अभिलेखों के आधार पर पाया गया कि उपरी तल कोयला उत्खनन हेतु उक्त भूमि में व्यपवर्तन हेतु प्रस्तावितकुल रकबा 9.500 हेक्टर वन भूमि पर उसके चारों ओर निवासरत् किसी व्यक्ति या समुदाय के कोई भी दावे अनुसूचित जन जाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 के अंतर्गत लंबित अथवा अनिर्णित नहीं है।

2. यह प्रमाणित किया जाता है कि वन भूमि व्यपवर्तन का उपरोक्त प्रस्ताव अनुसूचित जन जाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम, 2006 के अंतर्गत प्रस्ताव का विस्तृत विवरण तथा उसके प्रभावों की व्याख्या उन्हें स्थानीय भाषा में की जा चुकी है।

3. यह भी प्रमाणित किया जाता है कि अनुसूचित जन जाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम 2006 की धारा 3 (1) (e) के अनुसार आदिम जनजाति समूहों और कृषि पूर्व समुदायों के अधिकारों को विशेष रूप से सुरक्षित किया गया है।

4. यह प्रमाणित किया जाता है कि शासन द्वारा प्रबंधित की जाने वाली सुविधाओं हेतु वन भूमि व्यपवर्तन की कार्यवाही (यदि कोई हो) अनुसूचित जन जाति और अन्य परंपरागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम 2006 की धारा 3(2) की आवश्यकतानुसार पूरी की जा चुकी है तथा प्रभावित ग्राम सभाओं की इसमें सहमति है।

कलेक्टर जिला छिन्दवाड़ा

अध्यक्ष जिला स्तरीय वन अधिकार समिति

जिला छिन्दवाड़ा
(डॉ. पवन कुमार शर्मा)

कलेक्टर कार्यालय
जिला स्तरीय वन अधिकार समिति छिन्दवाड़ा

मालिय ग्राम पंचायत जमकुण्डा, जनपद पंचायत जुन्नारदेव
जिला छिन्दवाड़ा (म.प्र.)

:- ग्राम सभा का सहमति पत्र :-

प्रमाणित किया जाता है कि :-

1. डब्लू.सी.एल. कन्हान क्षेत्र की कोयला खदान शारदा परियोजना में कोयला उत्खनन से जुड़े संबंधित कार्यों के लिये राजस्व वन भूमि की स्वीकृति किया जाना प्रस्तावित है। पंचायत क्षेत्र के ग्राम जमकुण्डा के आरक्षित/राजस्व वन क्षेत्र के परिक्षेत्र जामई के संरक्षित वन कक्ष क्रमांक 475 बी में से 9.50 हेक्टेयर वन भूमि व्यपार्तन का प्रस्ताव वन (संरक्षण) अधिनियम 1980 के अन्तर्गत ग्राम सभा के समक्ष विचारार्थ प्रस्तुत हुआ।
2. वन भूमि व्यपार्तन का प्रस्ताव अनुसूचित जनजाति और अन्य परम्परागत वन निवासी (अधिकारों की मान्यता) अधिनियम 2006 के अन्तर्गत पात्र वन निवासियों की ग्राम सभा के समक्ष रखा गया है। प्रस्ताव का परीक्षण एवं उस पर चर्चा ग्राम सभा की बैठक दिनांक 26.01.2011 को की गई। जिसमें ग्राम सभा के 50 प्रतिशत से अधिक सदस्य उपस्थित रहे।
3. ग्राम सभा यह प्रमाणित करती है कि व्यपार्तन के लिये आवेदित वन भूमि के संपूर्ण क्षेत्र पर अनुसूचित जनजाति और अन्य परम्परागत वन निवासी (अधिकारों की मान्यता) अधिनियम 2006 के अन्तर्गत औपचारिकताओं/प्रक्रियाओं का पालन पूर्ण कर लिया है, तथा ग्राम सभा ने व्यपार्तन के प्रस्ताव के विवरण को समझ लिया है।
4. वन भूमि व्यपार्तन के फलस्वरूप सम्पादित किये जाने वाले कार्य से पंचायत क्षेत्र के विकास की सम्भावना है। अतः ग्राम सभा एतद् द्वारा उक्त अपना अभिमत/सहमति व्यक्त करती है।
सत्य प्रतिज्ञा सि


संलग्न :- ग्राम सभा बैठक की कार्यवाही विवरण की छायाप्रति

दिनांक : 26/01/2011

ग्राम पंचायत जमकुण्डा
वि. सं. जुन्नारदेव

580
11/02/13
PLG
08
14/02/12

"Under Jurisdiction of Nagpur Court Only"



Coalfields
Enabling Nature

वेस्टर्न कोलफील्ड्स लिमिटेड Western Coalfields Limited
(भारत सरकार का उपक्रम) (A Govt. of India Enterprise)

पंजीकृत कार्यालय कोल एस्टेट, सिविल लाइन्स, नागपुर - 440 008
Regd. Office: Coal Estate, Civil Lines, Nagpur - 440 001.
टेली फिक्स क्रमांक - 0712 2511560, Tele Fax No - 0712 2511560

क्रमांक वेकोलि/म.प्र.(भू/रा)/ 43



दिनांक : 08/02/2013

प्रति,

श्रीजीय महाप्रबंधक,
वेस्टर्न कोलफील्ड्स लिमिटेड,
कन्हान क्षेत्र।

विषय :- कोयला धारक क्षेत्र (अंजन और विकास) अधिनियम, 1957 के तहत धारा 11(1) के अंतर्गत आदेश अधिसूचना बाबत।

महोदय,

कोयला धारक क्षेत्र (अंजन और विकास) अधिनियम, 1957 के तहत धारा 11(1) के अंतर्गत शारदा अडरगाउंड माईन, कन्हान क्षेत्र के लिए आदेश अधिसूचना दिनांक 21 जनवरी, 2013 को जारी की गई। उक्त अधिसूचना की छायाप्रति उचित कार्रवाई हेतु आपको संप्रेषित की जा रही है।

एस. ओ. क्रमांक तथा तिथि की जानकारी, हमारे दिल्ली स्थित कार्यालय से प्राप्त होते ही आपको सूचित किया जाएगा।

धन्यवाद,

संलग्न :- यथापरि।

भवदीय,

प्रतिनिधि

9100
11/02/13

महाप्रबंधक (भूमि एवं राजस्व)
20/02/13

(कोयला धारक क्षेत्र), वेकोलि, नागपुर।
कन्हान क्षेत्र।

cc to
MGR Anban
18/02/13

S A M
Area Supervisor Kanhan



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ENVIRONMENT LABORATORY, CMPDI

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

GROUND FLOOR, CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED, REGIONAL
INSTITUTE-IV, NAGPUR, MAHARASHTRA, INDIA

in the field of
TESTING

Certificate Number: TC-7102

Issue Date: 29/06/2022

Valid Until: 28/06/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED

Signed for and on behalf of NABL

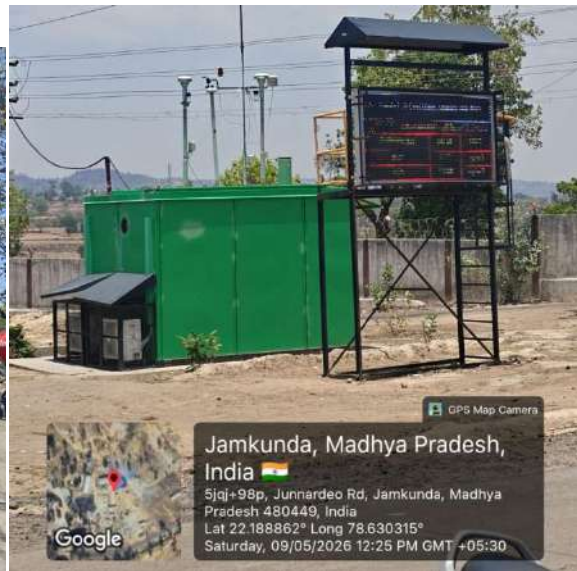


N. Venkateswaran
Chief Executive Officer

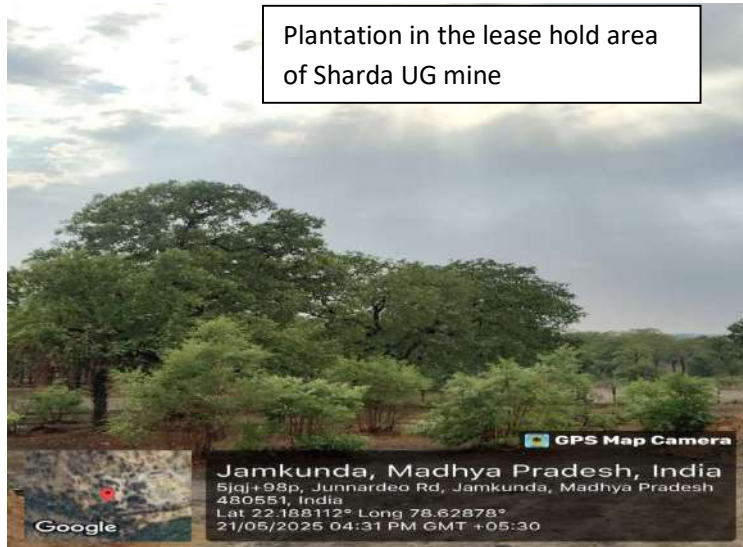
ENVIRONMENTAL MANAGEMENT AT SHARDA UG MINE

Air Pollution Control Measures

- i. 01 Nos. of Mist Fogger cannon of 100m throw is provided near bunker and coal stock yard for dust suppression.
- ii. Wind Barrier wall (Height – 16.0 ft, Length – 158.5 meters) provided at coal stock year and along transportation road at a cost of Rs. 13.13 Lakhs in the year 2023-24 (Photograph enclosed)
- iii. Total plantation of 1000 nos. in has been carried out in and around mine lease area since inception of mine.
- iv. Transportation trucks are covered with tarpaulin
- v. CAAQMS has been installed in the premises of mine.
- vi. 19 no.s of rain guns have been installed in and around coal stock yard for dust suppression.



Plantation in the lease hold area of Sharda UG mine



Wind breaking wall around mine boundary



Tarpaulin covers over transportation vehicles



Water Pollution Control Measures

i. For treatment of mine water there are 02 Nos. of sedimentation tanks are constructed, each of size 12m x 8m x 2.35 m³. Arrangements are in place to recycle the mine water for roof bolting in the mine for dust suppression at working face and for dust suppression through fogger cannon.





M.P. Pollution Control Board

E-5, Arera Colony Paryavaran Parisar, Bhopal - 16 MP Tele : 0755-2466191, Fax-0755-2463742



Consent Order

RED-LARGE

CCA-Renewal

PCB ID: 127248

Outward No:129216,04/01/2026

Consent No:AW-63625

To,
The Occupier,
M/s. Sharda Ug Coal Mine, Ambara Sub Area,
WCL Kanhan area, Village – Jamkunda, Nazarpur, Teh : Junnardeo,
Dist : Chhindwara, (M.P.) : 22.1887 Longitude : 78.6303



Subject: Grant of Renewal of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act, 1974 under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

Ref: Your Application Receipt No. 1416493 Dt. 16/12/2025 and last communication received on Dt. 12/12/2025

With reference to your above application for Renewal of consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to **31/12/2028**, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

SUBJECT TO THE FOLLOWING CONDITIONS :-

- Location: WCL Kanhan area, Village: Jamkunda, Nazarpur, Teh : Junnardeo, Dist : Chhindwara, (M.P.)
- The Mining Lease area: 307.50 Ha
- Product & Production Capacity:

Product/Activity	Production capacity
Mining of Coal	0.315 Million Ton per year

Note :-

- For any change in above industry shall obtain fresh consent from the Board.
- PP shall ensure that mining is done in sanctioned lease area as per valid mining plan approved by the competent Authority & in compliance of conditions laid in EC granted by MoEF & CC vide letter No. J-11015/154/2008-IA.II (M) dt 16.02.2011.
- Management shall ensure timely repair and maintenance of damaged coverings of transfer points and proper cleaning & maintenance of conveyor belt area to avoid any leakages/ spillage of coal dust. PP shall plan for installation of Automatic water fogging system at the railway/truck coal loading point. The height of boundary wall near this point shall be 15 feet or above the coal loading point. Coal transportation to be ensured in Tarpaulin covered condition. Mine management shall ensure installation of proper STP to treat and properly utilize the treated domestic effluent; STP to be installed in time bound manner. Mine water discharge shall be on priority utilised within the mine lease area.
- As directed in the Fly Ash Utilisation Notification Issued by MoEF & CC, GOI on dt 31.12.2021; The PP shall initiate all necessary actions from the project level to ensure time bound compliances listed in the notification to start utilisation of fly ash in the OB dumps/Mine voids without delay. As per the notification, the fly ash generated since First Jan. 2022 is to be utilised by the coal mines on priority under extended producers responsibility.

The Validity of the consent is up to **31/12/2028** and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

- * Conditions under Water Act
- * Conditions under Air Act
- * General conditions

CC to :-

- District Mining Officer, (Mining Section), Collector office, Chhindwara Dist. Chhindwara (M.P.) for information.
- M.P. State Mining Corporation, Arera Hills, Jail Road, Bhopal (M.P.) for necessary action please.
- Regional officer, Regional office, MPPCB, Chhindwara (M.P.)

By the order of Chairman, MPPCB

ACHYUT ANAND MISHRA
Member Secretary



Digitally Signed with Aadhaar
(Organic Authentication on AADHAR from UIDAI Server) Signature Not Verified
TPAV # 7FL84J1800

Digitally Signed by : A. A
Mishra, Member Secretary
Date: 04/01/2026 12:10:00 PM

CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of sewage shall not exceed 14.00 KL/day. STP treated water shall be used for plantation in colony/mine area

2. Trade Effluent Treatment:-

The applicant shall operate and maintain effluent treatment system properly to achieve following standards-

pH	Between	5.5 – 9.0	TDS	Not exceed	2100 mg/l.
Suspended Solids	Not exceed	100 mg/l.	Chlorides	Not exceed	1000 mg/l.
BOD ₅ Days 27 °C	Not exceed	30 mg/l.			
COD	Not exceed	250 mg/l.			
Oil and grease	Not exceed	10 mg/l.			

For other parameters general standards of discharge as notified under EP Act 1986 notified by MPPCB from time to time shall be applicable

3. Sewage Treatment :-

The applicant shall operate and maintain Sewage Treatment System properly to achieve following standards-

pH	Between	6.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD ₅ Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
fecal coliform	Not exceed	1000 MPN/100 ml

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements.

Sr	Water Code (Qty in KLper Day)	WC : 99.0	WWG : 69.0	Water Source	Remark
1	Domestic Purpose	22.0	14.0	Mine Water	Treated water of the STP to be used for plantation in colony/mine area.
2	Plantation / Horticulture	32.0	0.0	Recycled Mine Water	Water used for Spraying in haul roads & plantation.
3	Spray in Mines	45.0	0.0		

6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.

7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent.

8. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

9. Compilation of Monitoring data-

i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge. ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.

10. Recording of Monitoring Activities & Results-

i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.

ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:

- The date, exact place and time of sampling
- The dates on which analysis were performed
- Who performed the analysis?
- The analytical techniques or methods used and

Consent No:AW-63625

(v) The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

11. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

12. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

13. Limitation of visible floating solids and foam:-

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

14. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water. Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

15. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

16. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except :

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

17. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.

18. In case of any discharge found outside of unit premises the unit may be liable to pay environmental compensation as per NGT orders O.A. no 593/2017 dated 22.02.2021 and the industry shall be punishable or court case may be filed by the Board under provisions of the Water (Prevention & Control of Pollution) Act, 1974.

Sector Specific Water condition:-

1. The mine management shall maintain zero discharge conditions as far as possible. The Mine management shall optimize the water abstraction from the surface water source, if any, by utilizing the mine discharge for spraying on haul roads, mine area and loading - unloading area after proper treatment. The treated mine discharge shall also be utilized for sanitary purposes by providing separate supply lines, dust suppression and for plantation in order to ensure zero discharge status as far as possible.

2. Rain water harvesting shall be undertaken to recharge ground water source and status of implementation shall be submitted to the Board. Hydro-geological study of the area shall be reviewed annually. In case any adverse effect on ground water quality and quantity is observed, mining shall be stopped and resumed only after applying mitigating steps to restore the same.

3. The mine water should be treated in siltation ponds. The quality of siltation pond water shall be regularly monitored and mitigation measure shall be taken.

4. Mine management shall submit an action plan for the utilization of fly ash in construction works, road construction, near-by low-lying areas/ mines, brick manufacturing etc. Mine management shall ensure proper and timely maintenance of ETP so as to ensure quality of treated effluent within the prescribed limits.

5. The mine management shall comply with the conditions of the Environmental Clearance granted to the mine by MoEF & CC and compliance submitted to this office from time to time.

Consent No:AW-63625

CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall operate and maintain air pollution control system to achieve the level of pollutants to the following standards:-

Name of section	Control equipment to be installed	SPM/RSPM/SO _x /NO _x (mg/NM ³) (Annual Average)
Loading points, Transportation, CHP etc	Dust Suppressor, Green Belt, Water Sprinkler, Wind Breaking Wall, Mist gun	430 / 215/80/80 (24 Hr. Average : 600/300/120/120)

2. The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:

- Particulate Matter (less than 10 micron) - 100 µg/m³ (PM10 µg/m³ 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m³ (PM2.5 µg/m³ 24 hrs. basis)
- Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 µg/m³
- Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m³
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m³

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

6. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

7. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

8. In case of emission found exceeding prescribed standards, the unit may be liable to pay environmental compensation as per NGT orders O.A. no 593/2017 dated 22.02.2021 and the industry shall be punishable or court case may be filed by the Board under provisions of the Air (Prevention & Control of Pollution) Act, 1981.

Sector Specific Air condition:-

1. Mine management shall take effective steps for extensive tree plantation preferably of the local tree species within or around the industry/unit premises for general improvement of environmental conditions.

2. Mine management shall strictly comply with the directions of the Hon'ble NGT in the matter 276/2013 (Ashwani Kumar Dubey vs. Govt. of India & Others) and shall report accordingly to Board with regard to stoppage of coal transportation by road.

3. Mine management shall regularly operate the CAAQMS station to monitor ambient air quality in the Singrauli area and its vicinity and shall provide its suitable unhindered connectivity with Environment Surveillance Centre of the MPPCB and transmit the data within stipulated time.

4. Mine management shall provide continuous water sprinkler systems / rain gun at suitable locations on the road side & provide proper pollution control arrangements to control the fugitive emission generated due to coal transportation.

5. Vehicular emissions should be kept under control and regularly monitored for compliance of emission norms. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded. As far as possible road transportation shall be avoided.

6. Extensive tree plantation shall be done on both sides of Mineral transportation roads and around mining lease area. Tree plantation shall be carried out in phased manner preferably with local species. Good housekeeping practice shall be adopted by the Mine. More plantations with species like Neem, Pipal, Mango, Jamun, Kathal etc shall be planted. Mine management shall submit a proper proposal for green belt development in MP portion of mine lease hold area.

7. The mine shall take effective steps for safe and scientific reclamation of over burden steps shall be taken to keep the geological structure in the natural form by biological reclamation of mines.

8. Mine management shall take appropriate steps to maintain the eco-system of the area through environmental conservation program and the record shall be submitted to the Regional office of the Board annually.

9. Mines management shall provide progressive plantation on the over burden for stabilization of over burden and prevent the soil erosion.

10. Crushers at the CHP (if any) shall be operated with high efficiency bag filters. Mine management shall install & maintain automatic water spraying system for CHP, Coal stock yard and haul roads.

11. Mine management shall provide fencing all around the mining lease area to prevent the occurrence of accident.

12. Mine management shall setup an online or manual coal ash monitoring system for raw, or blended or beneficiated coal supplied to thermal power plants as per the MoEFCC OM dated 26/08/2015 and submit the report to MPPCB.

13. Coal handling plant and coal loading and unloading in railway wagons / trucks should be provided with adequate number of high efficiency dust extraction / suppression system. Loading and unloading areas including all the operated. Dust control measures shall be adopted at coal transfer point of the high wall mining machine as per the need.

14. Controlled blasting with delay detonators should be used during blasting operations to avoid, noise, flying of debris and stones, air pollution and vibrations. All blast holes should be properly packed and stemmed with locking caps to harness the maximum blast energy and at the same time to minimize and prevent dust, noise, vibrations and dispersal of fly rocks.

15. The Mine management shall ensure that the truck/tippers cover is of heavy duty such as 400 GSM and more thickness and adequate in size to avoid fall of coal during transportation. The mine management shall switch to automatic tarpaulin cover instead of manual tarpaulin covering system.

GENERAL CONDITIONS:

1. MANAGEMENT & DISPOSAL OF FLY ASH:-

MoEF &CC, GOI has issued notification dated 31.12.2021 regarding procedures & mandate to increase utilization of fly ash generated by the thermal power plants through the Coal mines under extended producers responsibility. This notification No.SO 5481 (E) dated 31.12.2021 has been published suppressing the previous Fly Ash Utilization Notification dt 14.09.199 as amended.

Following paras no. 3 & 4 of part B at page no. 16 of the notification are reproduced for taking necessary action at your end –

(3) It shall be obligatory on all mines located within 300 Kilometres radius of thermal power plant to undertake backfilling of ash in mine voids or mixing of ash with external overburden dumps under extended Producer Responsibility (EPR). All mine owners or operators (Government, Public and Private sector) within three Hundred kilometres (by road) from coal or lignite based thermal power plants, shall undertake measure to mix at least 25 percent of ash on weight to weight basis of the materials used for external dump of overburden, backfilling or stowing of mine (running or abandoned as the case may be) as per the guidelines of the Director General of Mines Safety (DGMS).

Provided that such thermal power stations shall facilitate the availability of required quality of ash by delivering ash free of cost and bearing the cost of transportation or transportation arrangement decided on mutually agreed terms and mixing of ash with overburden in mine voids and dumps shall be applicable for the overburden generated from the date of publication of this notification and the utilisation of ash in the said activities shall be carried out in accordance with guidelines laid down by the Central Pollution Control Board, Director General of Mines Safety and Indian Bureau of Mines.

Explanation- For the purpose of this sub paragraph, it is also clarified that the provisions of ash free of cost and free transportation shall be applicable, if thermal power plants serve a notice on the mine owner for the same and the mandate of using 25 percent of ash for mixing with overburden dump and filling up of mine voids shall not be applicable unless a notice is served on the mine owner by thermal power plant

(4) (i) All mine owners shall get mine closure plans (progressive and final) to accommodate ash in the mine voids and the concerned authority shall approve mine plans for disposal of ash in mine voids and mixing of ash with overburden dumps. The Ministry of Environment Forest and Climates Change (MOEFCC) has issued guidelines on 28th August, 2019 regarding exemption of requirement of Environment Clearance of thermal power plants and coal mines along with the guidelines to be followed for such disposal.

(ii) The Ministry in consultation with Central Pollution Control Board (CPCB), Director General of Mine Safety (DGMS) and Indian Bureau of Mines (IBM) may issue further guidelines time to time to facilitate ash disposal in mine voids and mixing with overburden dumps and it shall be the responsibility of mine owners to get the necessary amendments of modification in the permission issued by various regulatory authorities within one year from the date of identification of such mines.

2. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny bags etc	Record should be maintained	Re-Use/Sale to M.P. Pollution Control Board's authorized party

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.

b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.

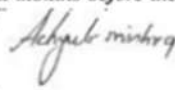
Consent No:AW-63625

- c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- e. To sample at reasonable times any discharge or pollutants.
3. This consent is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.
4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional.
6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.
7. Balance consent fee, if any shall be recoverable by the Board even at a later date.
8. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent.
9. The industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.
10. Industry shall obtain membership of Emergency Response Center of the Board if needed.
11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.
12. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :
- (a) Violation of any terms and conditions of this Consent.
- (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.
14. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.
15. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.
16. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis
17. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month.
18. Industry/unit shall carry out environmental audit for every financial year from competent authority and report shall be submitted to the Board within 03 months from end of that financial year. The same procedure shall be followed for coming years regarding submission of environmental audit report before September of preceding year with environmental statement.

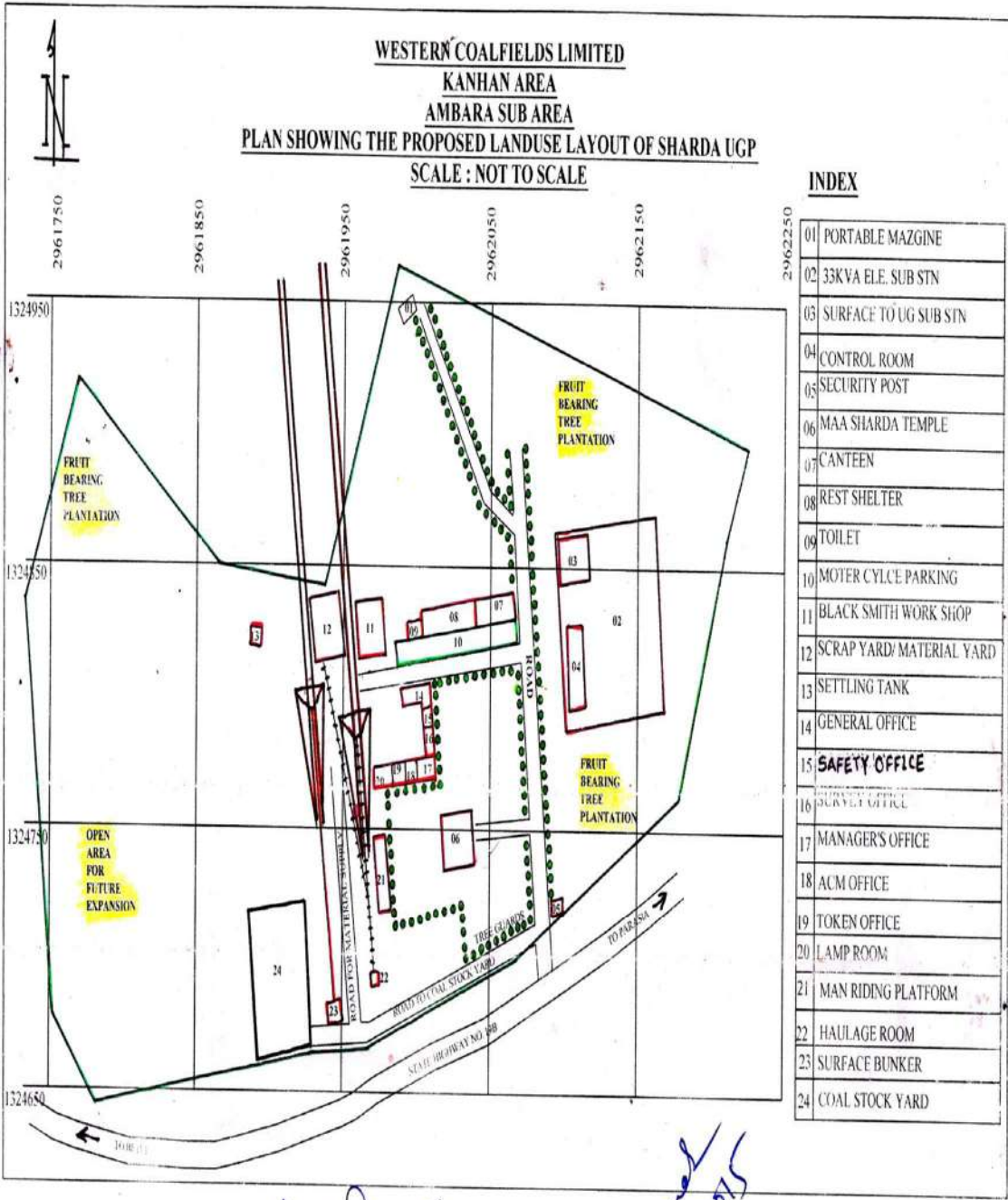
Renewal of Consent as required under the Water (Prevention & Control of Pollution) Act, 1974 & The Air (Prevention & Control of Pollution) Act, 1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least 3 months before the date of expiry of this consent. The applicant without valid consent (for operation) of the Board shall not be allowed to have any outlet for the discharge of effluent and gaseous emission.

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if of
M.P. Environment & Forest Board
ACHYUT ANAND MISHRA
Member Secretary

Consent No:AW-63625



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Signature
 Sr. Surveyor
 Ambara Colliery
 19/05/15

Signature
 Manager
 Ambara Colliery
 14/8/2015

WCL, Kanhan Area
SHARDA UG MINE

PRODUCTION STATUS

Sl.No.	Year	Production
1	2022-23	Mine establishment work started from 06 th June 2020 and was in progress. Coal production likely to commence from FY 2023-24
2	2023-24	0.034555 Million tonnes (Operation started in October 2023)
3	2024-25	0.114700 MT
4	2025-26	0.158505 MT



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ENVIRONMENTAL MONITORING REPORT

SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



OCTOBER 2025

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/OCT-25/74a	DATE OF ISSUE	25.11.2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-10-25 TO 15-11-25

INLINE SHARDA KSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
03.10.2025	04.10.2025	289	177	48	16	13	Cloudy sky / Light breeze
18.10.2025	19.10.2025	306	189	55	21	15	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTember 2000		600	300	-	120	120	


UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
08.10.2025	09.10.2025	73	23	8	BDL	Cloudy sky / Light breeze	
09.10.2025	10.10.2025	76	25	9	BDL	Cloudy sky / Light breeze	
13.10.2025	14.10.2025	80	30	11	BDL	Cloudy sky / Light breeze	
17.10.2025	18.10.2025	65	21	7	BDL	Cloudy sky / Calm	
22.10.2025	23.10.2025	83	31	13	10	Cloudy sky / Calm	
23.10.2025	24.10.2025	85	35	15	11	Cloudy sky / Calm	
28.10.2025	29.10.2025	79	28	9	BDL	Cloudy sky / Calm	
29.10.2025	30.10.2025	67	22	8	BDL	Cloudy sky / Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTember 2000		100	60	80	80		

TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
08.10.2025	09.10.2025	81	29	12	10	Cloudy sky / Light breeze	
09.10.2025	10.10.2025	74	26	8	BDL	Cloudy sky / Light breeze	
13.10.2025	14.10.2025	72	25	7	BDL	Cloudy sky / Light breeze	
17.10.2025	18.10.2025	66	23	6	BDL	Cloudy sky / Calm	
22.10.2025	23.10.2025	69	24	7	BDL	Cloudy sky / Calm	
23.10.2025	24.10.2025	84	32	14	12	Cloudy sky / Calm	
28.10.2025	29.10.2025	77	28	8	BDL	Cloudy sky / Calm	
29.10.2025	30.10.2025	68	24	7	BDL	Cloudy sky / Calm	
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	2	6	10	
08.10.2025	09.10.2025	75	27	9	BDL	Cloudy sky / Light breeze
09.10.2025	10.10.2025	70	25	8	BDL	Cloudy sky / Light breeze
13.10.2025	14.10.2025	63	20	7	BDL	Cloudy sky / Light breeze
17.10.2025	18.10.2025	67	22	8	BDL	Cloudy sky / Calm
22.10.2025	23.10.2025	81	31	12	11	Cloudy sky / Calm
23.10.2025	24.10.2025	85	36	15	13	Cloudy sky / Calm
28.10.2025	29.10.2025	73	26	7	BDL	Cloudy sky / Calm
29.10.2025	30.10.2025	82	32	11	BDL	Cloudy sky / Calm
NAAQS, 2009		100	60	80	80	

STORE KSUA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM ₁₀	PM _{2.5}	NO ₂		SO ₂
FROM	TO	5	5	2	6	10	
03.10.2025	04.10.2025	295	172	47	17	14	Cloudy sky / Light breeze
18.10.2025	19.10.2025	314	183	53	22	16	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH OCTember 2000		600	300	-	120	120	

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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FUGITIVE DUST MONITORING

TEST REQUIRED	SPM: IS 5182 Part-4, PM-10: IS-5182 Part 23, PM2.5: IS 5182 Part 24		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-10-25 TO 15-11-25	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE KSUF1		ENVIRONMENT CONDITIONS (Sky/Wind)
		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
FROM	TO	SPM	PM ₁₀	
30.10.2025	31.10.2025	365	256	CLEAR / CALM




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Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		 TC-7102
SAMPLE DESCRIPTION	Water sample			
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)			
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-10-25 TO 15-11-25		

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08.10.2025	7.36	25	28	BDL
18.10.2025	7.47	27	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
OCT'25	11.10.2025	46.5	43.7
OCT'25	29.10.2025	51.3	49.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
OCT'25	11.10.2025	42.2	40.3
OCT'25	29.10.2025	41.3	38.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
OCT'25	11.10.2025	42.2	39.4
OCT'25	29.10.2025	43.4	39.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


 Yogesh Pidurkar
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ENVIRONMENTAL MONITORING REPORT

SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



NOVEMBER 2025

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/NOV-25/74a	DATE OF ISSUE	24-12-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2: IS 5182 (Part-2)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-11-25 TO 15-12-25


INCLINE SHARDA KSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
08-11-2025	09-11-2025	310	193	57	22	17	Cloudy sky / Calm
28-11-2025	29-11-2025	291	188	50	18	14	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000		600	300	-	120	120	

UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
06-11-2025	07-11-2025	66	24	6	BDL	Cloudy sky / Calm	
07-11-2025	08-11-2025	70	29	8	BDL	Clear sky / Calm	
12-11-2025	13-11-2025	68	27	7	BDL	Clear sky / Calm	
13-11-2025	14-11-2025	72	30	9	BDL	Clear sky / Calm	
20-11-2025	21-11-2025	80	31	10	BDL	Cloudy sky / Calm	
21-11-2025	22-11-2025	75	28	9	BDL	Cloudy sky / Calm	
26-11-2025	27-11-2025	81	32	11	BDL	Cloudy sky / Calm	
27-11-2025	28-11-2025	84	34	12	BDL	Cloudy sky / Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000		100	60	80	80		


TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
06-11-2025	07-11-2025	77	27	7	BDL	Cloudy sky / Calm	
07-11-2025	08-11-2025	67	25	6	BDL	Clear sky / Calm	
12-11-2025	13-11-2025	71	26	7	BDL	Clear sky / Calm	
13-11-2025	14-11-2025	82	34	12	BDL	Clear sky / Calm	
20-11-2025	21-11-2025	65	23	6	BDL	Cloudy sky / Calm	
21-11-2025	22-11-2025	73	27	7	BDL	Cloudy sky / Calm	
26-11-2025	27-11-2025	79	30	9	BDL	Cloudy sky / Calm	
27-11-2025	28-11-2025	83	35	13	BDL	Cloudy sky / Calm	
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
06-11-2025	07-11-2025	82	33	11	BDL	Cloudy sky / Calm
07-11-2025	08-11-2025	74	26	7	BDL	Clear sky / Calm
12-11-2025	13-11-2025	76	28	8	BDL	Clear sky / Calm
13-11-2025	14-11-2025	80	32	9	BDL	Clear sky / Calm
20-11-2025	21-11-2025	67	26	8	BDL	Cloudy sky / Calm
21-11-2025	22-11-2025	69	27	7	BDL	Cloudy sky / Calm
26-11-2025	27-11-2025	72	29	9	BDL	Cloudy sky / Calm
27-11-2025	28-11-2025	75	31	9	BDL	Cloudy sky / Calm
NAAQS, 2009		100	60	80	80	

STORE KSUA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
08-11-2025	09-11-2025	288	173	50	16	13
28-11-2025	29-11-2025	279	166	46	14	12
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH NOVember 2000		600	300	-	120	120




Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		 TC-7102
SAMPLE DESCRIPTION	Water sample			
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)			
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :		16-11-25 TO 15-12-25

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-11-2025	7.75	23	32	BDL
20-11-2025	7.69	31	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'25	11-11-2025	45.4	43.6
NOV'25	26-11-2025	47.2	45.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'25	11-11-2025	44.2	42.5
NOV'25	26-11-2025	43.3	40.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'25	11-11-2025	42.3	40.5
NOV'25	26-11-2025	42.4	40.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


 Yogesh Pidurkar
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DECEMBER 2025

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC-25/74a	DATE OF ISSUE	25-01-2026
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-12-25 TO 15-01-26


INCLINE SHARDA KSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
08-12-2025	09-12-2025	275	163	47	20	15	Cloudy sky / Calm
21-12-2025	22-12-2025	283	174	52	24	17	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120	

UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
04-12-2025	05-12-2025	74	27	14	BDL	Clear sky / Calm	
05-12-2025	06-12-2025	75	28	15	BDL	Clear sky / Calm	
11-12-2025	12-12-2025	78	30	17	BDL	Clear sky / Calm	
12-12-2025	13-12-2025	79	31	20	BDL	Clear sky / Calm	
19-12-2025	20-12-2025	85	37	23	11	Clear sky / Calm	
20-12-2025	21-12-2025	83	35	21	13	Clear sky / Calm	
25-12-2025	26-12-2025	81	33	19	14	Clear sky / Calm	
26-12-2025	27-12-2025	80	31	18	12	Clear sky / Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		100	60	80	80		


TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
04-12-2025	05-12-2025	80	31	18	12	Clear sky / Calm	
05-12-2025	06-12-2025	83	32	20	14	Clear sky / Calm	
11-12-2025	12-12-2025	85	34	23	13	Clear sky / Calm	
12-12-2025	13-12-2025	80	31	17	10	Clear sky / Calm	
19-12-2025	20-12-2025	75	26	14	BDL	Clear sky / Calm	
20-12-2025	21-12-2025	79	28	16	BDL	Clear sky / Calm	
25-12-2025	26-12-2025	72	23	14	BDL	Clear sky / Calm	
26-12-2025	27-12-2025	76	24	15	BDL	Clear sky / Calm	
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
04-12-2025	05-12-2025	77	22	14	BDL	Clear sky / Calm
05-12-2025	06-12-2025	82	30	18	12	Clear sky / Calm
11-12-2025	12-12-2025	86	33	22	14	Clear sky / Calm
12-12-2025	13-12-2025	79	27	15	BDL	Clear sky / Calm
19-12-2025	20-12-2025	75	24	14	BDL	Clear sky / Calm
20-12-2025	21-12-2025	72	23	12	BDL	Clear sky / Calm
25-12-2025	26-12-2025	78	27	16	BDL	Clear sky / Calm
26-12-2025	27-12-2025	84	32	20	11	Clear sky / Calm
NAAQS, 2009		100	60	80	80	

STORE KSUA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂		SO ₂
		5	5	2	6	10	
08-12-2025	09-12-2025	293	185	55	25	16	Cloudy sky / Calm
21-12-2025	22-12-2025	266	161	40	17	13	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECEMBER 2000		600	300	-	120	120	




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Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		 TC-7102
SAMPLE DESCRIPTION	Water sample			
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)			
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-12-25 TO 15-01-26		

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-12-2025	7.75	30	44	BDL
27-12-2025	7.69	27	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

J. Shrivastava

Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 <small>TC-7102</small>
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NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'25	12-12-2025	46.3	44.7
DEC'25	29-12-2025	48.4	46.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'25	12-12-2025	42.9	40.0
DEC'25	29-12-2025	43.2	40.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
DEC'25	12-12-2025	43.6	40.8
DEC'25	29-12-2025	42.3	39.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


 Yogesh Pidurkar
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ENVIRONMENTAL MONITORING REPORT

SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423067



JANUARY 2026

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JAN-26/74a	DATE OF ISSUE	25-02-2026
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-01-26 TO 15-02-26

INCLINE SHARDA KSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
07-01-2026	08-01-2026	320	182	54	24	17	Cloudy sky / Calm
18-01-2026	19-01-2026	342	175	58	26	19	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120	


UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
05-01-2026	06-01-2026	78	30	13	BDL	Cloudy sky / Calm	
06-01-2026	07-01-2026	80	33	16	11	Cloudy sky / Calm	
11-01-2026	12-01-2026	76	29	17	12	Cloudy sky / Calm	
12-01-2026	13-01-2026	84	34	21	BDL	Cloudy sky / Calm	
16-01-2026	17-01-2026	86	36	24	13	Cloudy sky / Calm	
17-01-2026	18-01-2026	79	28	20	BDL	Cloudy sky / Calm	
23-01-2026	24-01-2026	77	27	17	BDL	Cloudy sky / Calm	
24-01-2026	25-01-2026	82	31	22	BDL	Cloudy sky / Calm	
29-01-2026	30-01-2026	85	35	23	10	Cloudy sky / Calm	
30-01-2026	31-01-2026	86	37	25	11	Cloudy sky / Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		100	60	80	80		

TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
05-01-2026	06-01-2026	82	32	20	13	Cloudy sky / Calm	
06-01-2026	07-01-2026	74	25	16	BDL	Cloudy sky / Calm	
11-01-2026	12-01-2026	79	28	17	BDL	Cloudy sky / Calm	
12-01-2026	13-01-2026	83	30	19	11	Cloudy sky / Calm	
16-01-2026	17-01-2026	85	34	21	12	Cloudy sky / Calm	
17-01-2026	18-01-2026	77	26	14	BDL	Cloudy sky / Calm	
23-01-2026	24-01-2026	81	31	15	BDL	Cloudy sky / Calm	
24-01-2026	25-01-2026	84	33	22	13	Cloudy sky / Calm	
29-01-2026	30-01-2026	83	32	21	10	Cloudy sky / Calm	
30-01-2026	31-01-2026	78	27	16	BDL	Cloudy sky / Calm	
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
05-01-2026	06-01-2026	84	34	22	11	Cloudy sky / Calm
06-01-2026	07-01-2026	80	29	19	BDL	Cloudy sky / Calm
11-01-2026	12-01-2026	83	31	22	10	Cloudy sky / Calm
12-01-2026	13-01-2026	81	28	15	BDL	Cloudy sky / Calm
16-01-2026	17-01-2026	76	27	14	BDL	Cloudy sky / Calm
17-01-2026	18-01-2026	75	26	15	BDL	Cloudy sky / Calm
23-01-2026	24-01-2026	79	30	16	BDL	Cloudy sky / Calm
24-01-2026	25-01-2026	77	25	17	BDL	Cloudy sky / Calm
29-01-2026	30-01-2026	81	33	20	11	Cloudy sky / Calm
30-01-2026	31-01-2026	86	34	24	14	Cloudy sky / Calm
NAAQS, 2009		100	60	80	80	

STORE KSUA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
07-01-2026	08-01-2026	332	201	54	24	18
18-01-2026	19-01-2026	295	190	48	20	15
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DEcember 2000		600	300	-	120	120

J. Singh
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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FUGITIVE DUST MONITORING

TEST REQUIRED	SPM: IS 5182 Part-4, PM-10: IS-5182 Part 23, PM2.5: IS 5182 Part 24		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-01-26 TO 15-02-26	

DATE(dd:mm:yy) OF SAMPLING		WEIGH BRIDGE KSUF1		ENVIRONMENT CONDITIONS (Sky/Wind)
		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)		
FROM	TO	SPM	PM ₁₀	
07-01-2026	08-01-2026	366	255	Cloudy sky / Calm




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Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		 TC-7102	
SAMPLE DESCRIPTION		Water sample			
Test Required		pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)			
SAMPLING METHOD		LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-01-26 TO 15-02-26		

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-01-2026	7.50	26	36	BDL
22-01-2026	7.4	28	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 <small>TC-7102</small>
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NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JAN'26	10-01-2026	46.5	44.7
JAN'26	29-01-2026	47.4	45.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JAN'26	10-01-2026	43.2	41.3
JAN'26	29-01-2026	43.6	41.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
JAN'26	10-01-2026	42.3	39.6
JAN'26	29-01-2026	43.3	40.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


 Yogesh Pidurkar
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ENVIRONMENTAL MONITORING REPORT

SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



FEBRUARY 2026

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/FEB-26/74a	DATE OF ISSUE	25-03-2026
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-02-26 TO 15-03-26

INCLINE SHARDA KSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
07-02-2026	08-02-2026	300	202	55	23	16	Cloudy sky / Calm
26-02-2026	27-02-2026	310	218	57	25	18	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120	

UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
05-02-2026	06-02-2026	85	34	22	12	Cloudy sky / Calm	
06-02-2026	07-02-2026	83	32	21	BDL	Cloudy sky / Calm	
11-02-2026	12-02-2026	79	30	20	BDL	Cloudy sky / Calm	
12-02-2026	13-02-2026	80	31	19	BDL	Cloudy sky / Calm	
19-02-2026	20-02-2026	78	29	17	BDL	Cloudy sky / Calm	
20-02-2026	21-02-2026	76	27	16	BDL	Cloudy sky / Calm	
24-02-2026	25-02-2026	74	25	15	BDL	Cloudy sky / Calm	
25-02-2026	26-02-2026	77	26	16	BDL	Cloudy sky / Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		100	60	80	80		


TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
05-02-2026	06-02-2026	84	33	23	11	Cloudy sky / Calm	
06-02-2026	07-02-2026	80	30	21	BDL	Cloudy sky / Calm	
11-02-2026	12-02-2026	76	26	18	BDL	Cloudy sky / Calm	
12-02-2026	13-02-2026	81	31	20	BDL	Cloudy sky / Calm	
19-02-2026	20-02-2026	78	28	19	BDL	Cloudy sky / Calm	
20-02-2026	21-02-2026	75	26	16	BDL	Cloudy sky / Calm	
24-02-2026	25-02-2026	79	29	18	BDL	Cloudy sky / Calm	
25-02-2026	26-02-2026	76	28	17	BDL	Cloudy sky / Calm	
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
05-02-2026	06-02-2026	82	33	21	10	Cloudy sky / Calm
06-02-2026	07-02-2026	79	30	18	BDL	Cloudy sky / Calm
11-02-2026	12-02-2026	80	29	17	BDL	Cloudy sky / Calm
12-02-2026	13-02-2026	76	27	16	BDL	Cloudy sky / Calm
19-02-2026	20-02-2026	78	29	19	BDL	Cloudy sky / Calm
20-02-2026	21-02-2026	79	31	20	BDL	Cloudy sky / Calm
24-02-2026	25-02-2026	80	32	22	BDL	Cloudy sky / Calm
25-02-2026	26-02-2026	78	27	15	BDL	Cloudy sky / Calm
NAAQS, 2009		100	60	80	80	

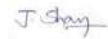
STORE KSUA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
07-02-2026	08-02-2026	298	195	50	22	17
26-02-2026	27-02-2026	286	173	46	18	14
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120

J. Shrivastava


Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		 TC-7102	
SAMPLE DESCRIPTION	Water sample				
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)				
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-02-26 TO 15-03-26			

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-02-2026	7.84	26	44	BDL
20-02-2026	8.14	22	52	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 <small>TC-7102</small>
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NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'26	13-02-2026	45.4	42.6
FEB'26	26-02-2026	48.2	46.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'26	13-02-2026	42.3	40.5
FEB'26	26-02-2026	43.3	40.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
		20	20
FEB'26	13-02-2026	43.4	39.7
FEB'26	26-02-2026	42.2	39.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


 Yogesh Pidurkar
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ENVIRONMENTAL MONITORING REPORT

SHARDA UG

KANHAN AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423067



MARCH 2026

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN – 440 014

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/MAR-26/74a	DATE OF ISSUE	25-04-2026
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-03-26 TO 15-04-26

INCLINE SHARDA KSUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
06-03-2026	07-03-2026	288	198	48	18	14	Clear sky / Calm
20-03-2026	21-03-2026	301	216	55	20	17	Clear sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DEcember 2000		600	300	-	120	120	

UMARIA FADALI VILLAGE KSUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
04-03-2026	05-03-2026	75	24	12	BDL	Clear sky / Calm	
05-03-2026	06-03-2026	77	27	14	BDL	Clear sky / Calm	
11-03-2026	12-03-2026	81	29	15	BDL	Clear sky / Calm	
12-03-2026	13-03-2026	83	31	16	10	Clear sky / Calm	
18-03-2026	19-03-2026	80	30	15	BDL	Clear sky / Calm	
19-03-2026	20-03-2026	84	33	16	11	Clear sky / Calm	
24-03-2026	25-03-2026	86	35	17	12	Clear sky / Calm	
25-03-2026	26-03-2026	87	37	18	12	Clear sky / Calm	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DEcember 2000		100	60	80	80		


TATARWADA VILLAGE KSUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
04-03-2026	05-03-2026	73	25	10	BDL	Clear sky / Calm	
05-03-2026	06-03-2026	74	26	12	BDL	Clear sky / Calm	
11-03-2026	12-03-2026	78	28	14	BDL	Clear sky / Calm	
12-03-2026	13-03-2026	80	33	15	BDL	Clear sky / Calm	
18-03-2026	19-03-2026	82	32	15	10	Clear sky / Calm	
19-03-2026	20-03-2026	84	35	16	BDL	Clear sky / Calm	
24-03-2026	25-03-2026	83	30	16	11	Clear sky / Calm	
25-03-2026	26-03-2026	85	36	17	12	Clear sky / Calm	
NAAQS, 2009		100	60	80	80		

JAMUNBADA DARBAR VILLAGE KSUA4						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
04-03-2026	05-03-2026	74	26	12	BDL	Clear sky / Calm
05-03-2026	06-03-2026	76	28	13	BDL	Clear sky / Calm
11-03-2026	12-03-2026	82	31	14	BDL	Clear sky / Calm
12-03-2026	13-03-2026	79	29	15	BDL	Clear sky / Calm
18-03-2026	19-03-2026	81	32	14	BDL	Clear sky / Calm
19-03-2026	20-03-2026	83	33	15	10	Clear sky / Calm
28-03-2026	29-03-2026	85	34	14	BDL	Clear sky / Calm
29-03-2026	30-03-2026	86	35	15	12	Clear sky / Calm
NAAQS, 2009		100	60	80	80	

STORE KSUA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
06-03-2026	07-03-2026	318	207	50	18	15
20-03-2026	21-03-2026	322	214	56	21	17
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DEcember 2000		600	300	-	120	120




Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report		 TC-7102
SAMPLE DESCRIPTION	Water sample			
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)			
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-03-26 TO 15-04-26		

MINE WATER DISCHARGE: KSUW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-03-2026	7.73	20	32	BDL
22-03-2026	7.86	26	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

J. Shing

Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT
SAMPLING METHOD	LSOP 6

NEAR PIT OFFICE		KSUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'26	11-03-2026	46.8	44.3
MAR'26	27-03-2026	47.5	45.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

UMARIA FADALI VILLAGE		KSUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'26	11-03-2026	42.8	39.1
MAR'26	27-03-2026	43.8	41.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

TATARWADA VILLAGE		KSUN3	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'26	11-03-2026	42.9	39.9
MAR'26	27-03-2026	42.2	40.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


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REPORT ON
MONITORING OF GROUND WATER LEVEL
OF
SHARDA UG MINE
KANHAN AREA
WESTERN COALFIELDS LTD.



PERIOD- MAY 2025 (PRE MONSOON), AUG 2025 (MONSOON), NOV 2025 (POST-MONSOON) & JAN 2026 (WINTER)



M/s Anacon Laboratories Pvt. Ltd., Nagpur

MoEF&CC (GOI) Recognized Laboratory
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
Lab. & Consultancy: FP-34, 35, Food Park,
MIDC, Butibori, Nagpur – 441122
Mob: +91-9372960077
Email: ngp@anacon.in
Website: www.anaconlaboratories.com
Report No. ANqr /PD/20A/2023/199

2025-26

Certificate

Groundwater level monitoring has been conducted with due diligence, and a comprehensive report on the monitoring of groundwater levels in all observation wells has been prepared as per the scope of work outlined in work order no. वेकोलि/मुख्यालय/पर्यावरण/14-L/1122-1148, dated 19.04.2025 for the Jan 2026 (Winter) Period.

The report includes the monitoring of groundwater levels and water quality analysis of observation wells pertaining to Sharda UG Mine, of the Kanhan area of Chhindwara district, M.P.

The groundwater level monitoring was meticulously carried out by Anacon Laboratories Pvt. Ltd., and the analysis of the samples was performed by Anacon Laboratories Pvt. Ltd., a NABL Accredited Laboratory. (NABL Certificate no. TC-12998)

Anacon Laboratories Pvt. Ltd. gratefully acknowledges the full cooperation rendered by the concerned WCL officials, which facilitated the timely completion of the project.



Krupali Raut
(Geologist)



Gyanchand Bohra
NABET Accredited EIA Expert
for Hydrogeology & Geology



Nagpur
Jan-2026

(Dr. D. G. Garway)
Head of Organization
Anacon Laboratories Pvt. Ltd., Nagpur

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TABLE/FIGURE	NAME OF SUB MINE PROJECT	GROUND WATER MONITORING DETAILS OF WELL	Page No.
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I-TABLE	SHARDA UG MINE	PERIOD- MAY 2025 (PRE MONSOON), AUG 2025 (MONSOON), NOV 2025 (POST-MONSOON) & JAN 2026 (WINTER)	6
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Gaurav

INTRODUCTION

Environment Department of Western Coalfield Limited (WCL), Nagpur has awarded the assignment engaged M/s Anacon Laboratories Pvt. Ltd, for conducting Ground water Monitoring (i.e. Borewell/Piezometer water level) for the year 2025-26 vide work order no. वेकोलि/मुख्यालय/पर्यावरण/14-L/1122-1148, dated 19.04.2025 for the Jan 2026 (Winter) Period

Sharda UG Mine is located in Chhindwara district of Madhya Pradesh. All Mines are administered by Kanhan Area of Western Coalfields Limited. Ground water Level monitoring for all the mines have been done for the year 2025-26 i.e. **PERIOD- MAY 2025 (PRE MONSOON), AUG 2025 (MONSOON), NOV 2025 (POST MONSOON) & JAN 2026 (WINTER).** **GENERAL HYDROGEOLOGICAL CONDITION**

The major part of the district is occupied by Deccan Trap, consisting of different lava flows whose thickness ranges between 7 to 21 m. The recent alluvium deposits are found at places along the Pench and the Kanhan rivers with thickness varying from 5.00 to 20.00 m. Alluvium comprises clayey material with intercalated layers of sand and gravels. Archaeans are exposed in parts of Sausar, Bichhua, Chhindwara, Jamai and Mohkhed blocks whereas the Coal bearing lower Gondwanas in parts of Jamai, Parasia and Jamai blocks. The upper Gondwanas occupy parts of Harrai and Tamia blocks. Ground water occurs under phreatic and semi-confined to confined conditions. Alluvium, weathered granites/gneisses, lower Gondwana sandstones, weathered, fractured and jointed massive basalts and vesicular basalts form the major phreatic aquifers; and weathered, fractured granites are noticed as main water-bearing zones at deeper levels.



Gawary

**SHARDA UG MINE,
KANHAN AREA
WESTERN COALFIELDS LTD.**

**PERIOD- MAY 2025 (PRE MONSOON), AUG 2025 (MONSOON), NOV 2025 (POST MONSOON) & JAN
2026 (WINTER)**



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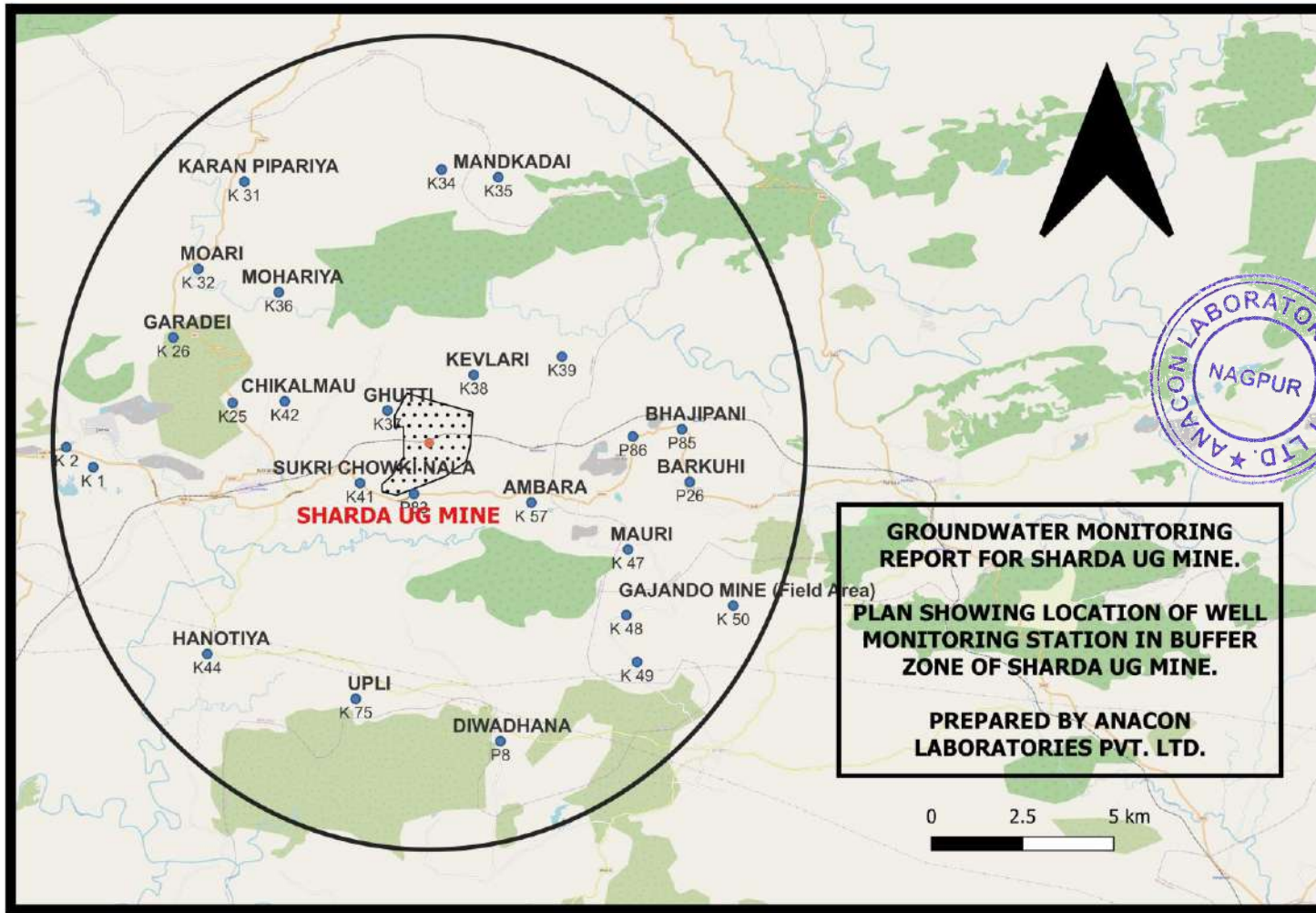


FIGURE I: GROUND WATER MONITORING STATION (OBSERVATION WELLS IN AND AROUND OF SHARDA UG MINE)



D. J. Gawde

TABLE-I: Ground Water level Monitoring data from dugwells/piezometers in buffer zone of SHARDA UG WINE KANHAN

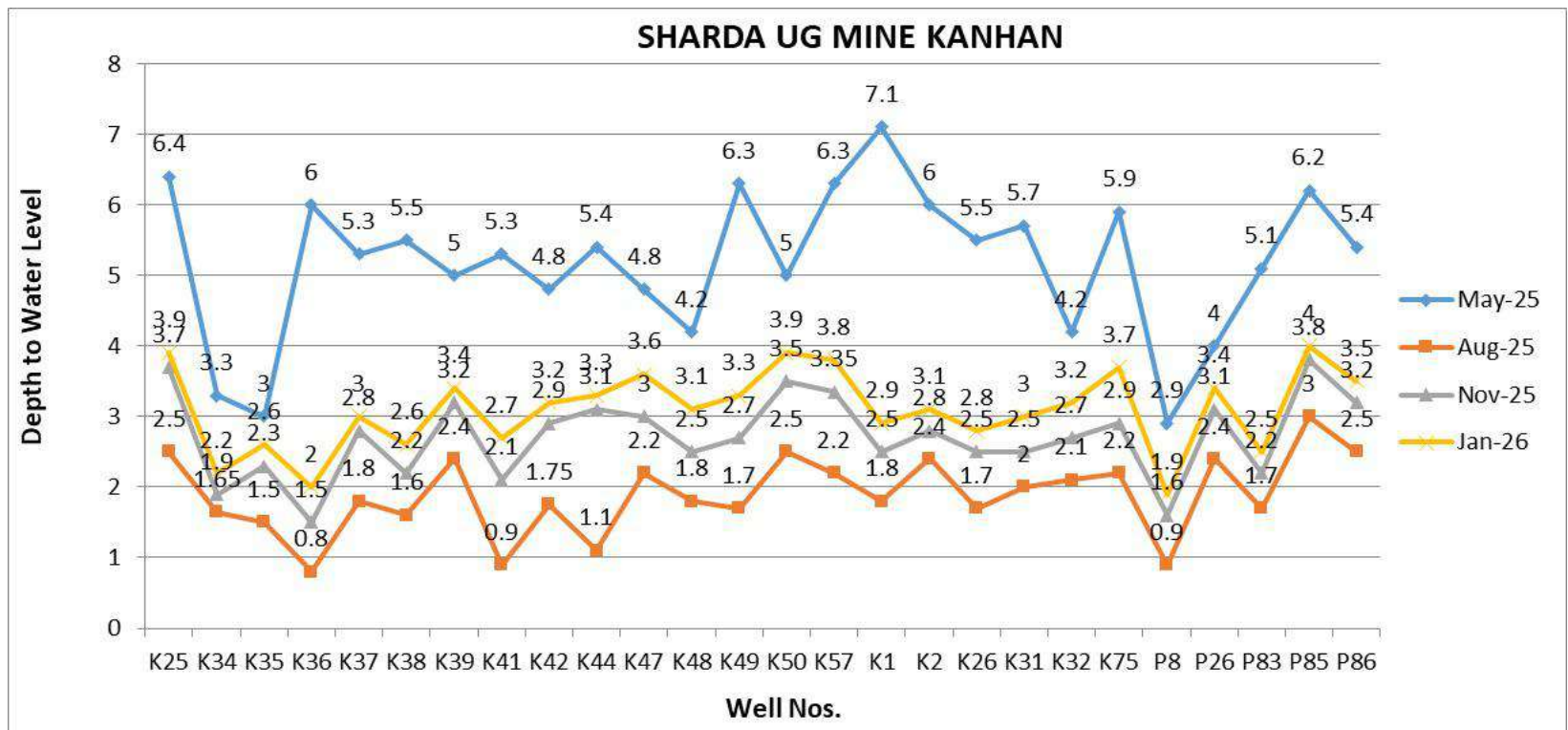
SR. NO	Well No. BA	Name of village	Well location	Latitude	Longitude	R.L. in m	Well dia (m)	Height of mea.po int (m agl)	Well depth (m bmp)	Depth to Water (BGL-Below Ground Level)				UTILITY	G/F	Owner
										May-25	Aug-25	Nov-25	Jan-26			
1	K25	JUNARDE V	Side of Tambia Road near Mandir outer limit of municipality	22°12'41.137 3310253325"	78°35'6.11457 694781721"	710	4.7	0.6	11.6	6.40	2.50	3.70	3.90	Domestic	M/B sandstone	Deep chan Pawar
2	K34	GUDDAM	Near G.P. office in low lying near Nala	22°16'7.5650 0158655768"	78°38'26.0180 484786373"	712	2.6	0.85	2.85	3.30	1.65	1.90	2.20	Domestic	M/B sandstone	G.P.
3	K35	MANDKA DAI	In the openfield about 300 m away from village	22°16'0.7147 50552555188 "	78°39'20.1726 077323803"	722	4.2	0.5	5.2	3.00	1.50	2.30	2.60	Irrigation No pump	Basalt	Private
4	K36	MOHARIYA	In the low lying area North of LP School 100 m from Shival hone	22°14'19.027 6268697772"	78°35'50.3260 534574848"	735	6	0.4	8	6.00	0.80	1.50	2.00	Domestic	Basalt/sandstone	G.P.
5	K37	GHUTTI	Near LP school	22°12'34.465 5112699527"	78°37'34.3253 991360017"	726	6.4	0.6	10	5.30	1.80	2.80	3.00	Domestic	M/B sandstone	G.P.
6	K38	KEVLARI	About 100 m NE of G.P office openfield of Shobharam	22°13'5.9458 3927598649"	78°38'56.7109 874964173"	729	3.5	0	10.6	5.50	1.60	2.20	2.60	Irrigation	M/B S.stone with Dyke	SOBHARAM
7	K39	RICHHORA	Near Bajrang Mandir & Phulchand Mistra	22°13'22.019 2579841836"	78°40'21.0909 098510628"	690	5.5	1.2	9.5	5.00	2.40	3.20	3.40	Domestic	M/B sandstone	G.P.
8	K41	SUKRI CHOWKI NALA	In the openfield Near Nala on Parasis-Jurdeo Road	22°11'30.114 3403543605"	78°37'8.20198 943747972"	650	5.8	0	10.2	5.30	0.90	2.10	2.70	Irrigation	M/B sandstone	SANKAR YADUBANSI
9	K42	CHIKALMAU	In the centre of village Near house HARICHANDRA DHURVE	22°12'42.448 8104302284"	78°35'56.0797 409136397"	685	3.2	0.7	8.5	4.80	1.75	2.90	3.20	Domestic	M/B sandstone	G.P.
10	K44	HANOTIYA	In the compound of school Near Hospital	22°8'58.8774 587994209"	78°34'41.9888 123935357"	697	4.6	0.8	9.5	5.40	1.10	3.10	3.30	Domestic	M/B sandstone	G.P.
11	K 47	MAURI	About 100 m East of Hingula Mandir near O/C patch Mauri	22°10'31.423 2864237184"	78°41'24.3711 039009065"	745	6.1	0.75	7.9	4.80	2.20	3.00	3.60	Domestic	Barakar sandstone	G.P.
12	K 48	MAYRI	Near Milk Dairy Depo. House of Roshan Vishkarma single house	22°9'33.3908 673272873"	78°41'22.6683 189291429"	785	4.01	0.8	4.7	4.20	1.80	2.50	3.10	Irrigation	Barakar sandstone	Roshan Vishkarma

SR. NO	Well No. BA	Name of village	Well location	Latitude	Longitude	R.L. in m	Well dia (m)	Height of mea. point (m agl)	Well depth (m bmp)	Depth to Water (BGL-Below Ground Level)				UTILITY	G/F	Owner
										May-25	Aug-25	Nov-25	Jan-26			
13	K 49	SILADEHI	Outside village towards Umreth Road Back of house of Panchu Lal	22°8'51.8833 333720849"	78°41'32.9329 836201077"	768	5.2	0	10.5	6.30	1.70	2.70	3.30	Irrigation	Barakar sandstone	Panchu Lal
14	K 50	GAJANDO MINE (Field Area)	In the field of Jaipal power 100 m from road to mine	22°9'41.7414 08730195"	78°43'5.03494 982437016"	695	6.1	0.1	9.1	5.00	2.50	3.50	3.90	Irrigation	Barakar sandstone	Jaipal Power
15	K 57	AMBARA	Side of Road to Parasia about 100 south in the field of Farukh Bhai	22°11'12.981 2136862654"	78°39'51.7314 514040981"	745	7.5	1	12.4	6.30	2.20	3.35	3.80	Irrigation	Barakar sandstone	Farukh Bhai
16	K 1	DUGARIA	In the compound of Mr. B.S. Rajput South of Road	22°11'44.261 7224650192"	78°32'52.7335 491283725"	750	3.7	0.75	10.1	7.10	1.80	2.50	2.90	Domestic	M/B sandstone	G.P.
17	K 2	KOLIYA (Nishtari talab)	Back side of H/O ASHARUNARE Near small Dam	22°12'1.9387 7427962832"	78°32'27.0735 663609333"	754	3.7	0.65	9.2	6.00	2.40	2.80	3.10	Domestic	M/B sandstone	G.P.
18	K 26	GARADEI	Near Mandir on junction of Tambia & Umrai Road	22°13'38.937 7166427664"	78°34'9.36236 865993356"	715	3.7	0.4	7.2	5.50	1.70	2.50	2.80	Domestic	M/B sandstone	G.P.
19	K 31	KARAN PIPARIYA	100 M back of G.P office	22°15'56.811 4772037134"	78°35'17.4804 804353185"	775	2.8	0.65	4.6	5.70	2.00	2.50	3.00	Domestic	Basalt	G.P.
20	K 32	MOARI	Back side of Budhanlal & near BHUDAMANSA	22°14'39.617 2601680121"	78°34'33.2826 390725507"	780	4.6	0.5	6	4.20	2.10	2.70	3.20	Domestic	Basalt	G.P.
21	K 75	UPLI	OPEN FIELD	22°8'19.25"	78°37'3.98"	690	5.6	0.9	12.6	5.90	2.20	2.90	3.70	Domestic	M/B SANDSTONE	PVT
22	P8	DIWADHANA	West of Umreth Sukri Road in openfield of Premchand Yadav	22°7'41.7313 742952288"	78°39'22.2108 219175856"	785	4.01	0.8	4.7	2.90	0.90	1.60	1.90	Domestic	BASALT	Premchand Yadav
23	P26	BARKUHI	Back side of officess club Pench Area out side of club boundary	22°11'31.107 051465959"	78°42'23.4300 735044873"	776	3	0.6	8.7	4.00	2.40	3.10	3.40	Domestic	Motur	WCL
24	P83	JAMKUNDA	ABOUT 350 METER FROM MAIN ROAD	22°11'20.59"	78°37'59.79"	710	5.8	0.5	14.5	5.10	1.70	2.20	2.50	Domestic	MOTUR	PVT
25	P85	BHAJIPANI	INSIDE ROAD ABOUT 300 MT	22°12'17.79"	78°42'15.89"	781	4	0.75	12.6	6.20	3.00	3.80	4.00	Domestic	Basalt	PVT

SR. NO	Well No. BA	Name of village	Well location	Latitude	Longitude	R.L. in m	Well dia (m)	Height of mea. point (m agl)	Well depth (m bmp)	Depth to Water (BGL-Below Ground Level)				UTILITY	G/F	Owner
										May-25	Aug-25	Nov-25	Jan-26			
26	P86	EKLEHRA	ON THE JUNNARDEO PARASIA ROAD	22°12'11.41"	78°41'28.97"	825	6	0.6	11.4	5.40	2.50	3.20	3.50	Domestic	BASALT	GP



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II-FIGURE: HYDROGRAPH of SHARDA UG MINE KANHAN AREA



K1-DUGARIA



K2-KOLIYA



K25-JUNARDEV



K26-GARADEI



K31-KARAN PIPARIYA



K32-MOARI



K34-GUDDAM



K35-MANDKADAI



K36-MOHARIYA



L37- GHUTTI



K38-KEVLARI



K39-RICHHORA



K41-SUKRI CHOWKI NALA



K42-CHIKALMAU



K44-HANOTIYA



K47-MAURI



K48-MAYRI



K49-SILADEHI



K50-GAJANDO MINE



K57-AMBARA



K75- UPLI



P8-DIWADHANA



P26-SHIVPURI



P83- JAMKUNDA



P85-BHAJIPANI



P86-EKLEHRA

REVISION OF MINE CLOSURE COST

Mine closure planning has to be carried out at the starting of the mine and needs periodic reviewing and revision during its life cycle to cope with the geo-technical constraints, safety and economic risks, social & environmental challenges. For the Mine Closure activities, a corpus fund is created by opening an escrow account with the coal controller organization in nationalised bank. For UNDERGROUND mine, an amount @ Rs 1.00 lakhs per Ha of the project area was required to be deposited in this account for final mine closure. The above rate was been adopted as per Circular No. 55011-01-2009-CPAM, GOI, Ministry of Coal, dated 07th January 2013.

The Mine Closure Plan of Sharda UG was prepared for Project Area 310.92 Ha and Mine Closure Corpus was calculated. The same was approved in WCL Board's 299th meeting held on 10.04.2018. At the time of approval of Mine Closure Plan, the life of mine was taken as 23 years from 2018-19.

Further, the Mine Closure Guidelines were also revised by MoC vide Office Memorandum dated 29.05.2020. Wherein, the per ha rate for calculating Mine Closure Corpus was provisioned as 1.5 Lakhs / Ha. With a base WPI of April 2019 i.e. 121.1. The mine is yet to start.

Thus, due to change in per unit rates for Mine Closure Cost calculation the mine closure corpus is to be revised. The revised Mine Closure Cost calculation is as follows:

Sl. No.	Particulars	Data / Calculations
1	Total Area of the Mine (ha.)	310.92
2	WPI Value of April 2019 (Base WPI)	121.1
3	WPI Value of Current Available Month (November 2020)	125.1
4	% of increase in WPI	1.033030553
5	Amount to be considered for Underground	150000

6	TOTAL MINE CLOSURE CORPUS FUND (Rs. Lakhs)	481.78
7	Mine Closure Corpus Fund	481.78
8	Total Life of Sharda U/G Mine	23
9	Mine Closure Cost for 1st year (2020 - 21)	20.95
10	Mine Closure Cost for 2nd year (2021 - 22)	22.00

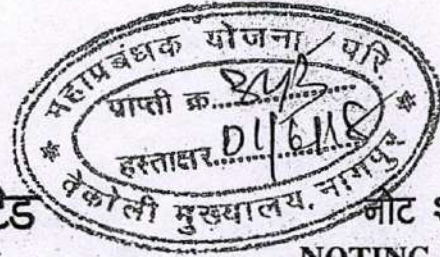
The year-wise mine closure cost for Sharda UG mine is calculated and tabulated below.

Year	Amount per Year (Rs. lakhs)	Production (Mt)	Amount per Tonne (Rs./t)
1st year 2020-21	20.95	Revenue Expenditure Capitalised Period	
2 Year	22.00		
3 Year	23.10	0.120000	19.25
4 Year	24.26	0.240000	10.11
5 Year	25.47	0.378000	6.74
6 Year	26.74	0.378000	7.07
7 Year	28.08	0.378000	7.43
8 Year	29.48	0.378000	7.80
9 Year	30.95	0.378000	8.19
10 Year	32.50	0.378000	8.60
11 Year	34.13	0.378000	9.03
12 Year	35.84	0.378000	9.48
13 Year	37.63	0.378000	9.96
14 Year	39.51	0.378000	10.45
15 Year	41.49	0.378000	10.98
16 Year	43.56	0.378000	11.52
17 Year	45.74	0.378000	12.10
18 Year	48.03	0.378000	12.71
19 Year	50.43	0.378000	13.34
20 Year	52.95	0.378000	14.01
21 Year	55.60	0.302213	18.40
22 Year	58.38	0.216000	27.03
23 Year	61.30	0.169603	36.14
	868.12	7.095816	11.63

Mine Closure Cost Break-up for Sharda U/G Mine			
Sl. No	Activity	% of Total Mine Closure Cost	Amount (Rs. in 000s)
A	Dismantling of structures		
	Service Building	3.50%	30.38
	Residential Building	37.58%	326.24
	Industrial Structures like CHP, Workshop, Field Substation, Cap lamp room, Haulage, Fan Installation etc.	6.33%	54.95
B.	Permanent sealing of mine entries (inclnie mouth and air shaft.)		
	Sealing of incline mouths and air shafts.	2.32%	20.14
C.	Subsidence Management.	1.75%	15.19
D.	Landscaping		
	Landscaping of the clear land for improving its aesthetic.	5.80%	50.35
E.	Plantation		
	Plantation over the cleared area obtained after dismantling and on other Barren Spaces.	10.00%	86.81
F.	Monitoring / Testing of parameters for three years.		
	Air Quality	3.83%	33.25
	Water Quality	3.34%	29.00
G.	Entrepreneurship development (Vocational / Skill Development) Training for sustainable income of affected people.	4.65%	40.37
H.	Miscellaneous and other mitigative measures.	11.60%	100.70
I.	Man power cost for supervision	9.30%	80.74
TOTAL		100%	868.12



वेस्टर्न कोलफील्ड्स लिमिटेड
Western Coalfields Limited



नोट शीट
NOTING SHEET
बोर्ड सचिवालय
Board Secretariat

Ref. No. WCL/BD.SECTT/2018/ 104

Date: 01.06.2018

Sub: Excerpt from the minutes of 300th meeting of the Board of Directors of WCL held on 24th May, 2018.

Reproduced below is the relevant excerpt from the minutes of 300th meeting of the Board of Directors of WCL held on 24th May, 2018 with respect to the following items:

ITEM NO. 299/C-7

SUB Recast Project Report of Tawa III UG Mine (including mining plan)
Feb 2018 of Pathakhera Area.

ITEM NO. 299/C-8

SUB Recast Project Report of Sharda UG Mine (including mining plan)
Feb 2018 of Kanhan Area.

ITEM NO. 299/C-10

SUB Revised Project Report of Amalgamated Gondagaon -Ghatrohan OC Mine
(including mining plan) February, 2018 of Nagpur Area

The Board, after deliberation modified the above Project Reports' updation month as March, 2018 in place of February, 2018 recorded in the minutes under the Items No.299/C-7, 299/C-8 & 299/C-10 of the 299th Meeting of WCL Board held on 10.04.2018.

Submitted to GM (P&P) to take necessary action in the matter.

General Manager (P&P)

SMs (M)/NG/
SAI
from 9
1/6/18

COMPANY SECRETARY
1/6/18

वेस्टर्न कोलफील्ड्स लिमिटेड
Western Coalfields Limited

बोर्ड सचिवालय
BOARD SECRETARIAT

पंजी. कार्यालय : कोल इस्टेट, सिविल लाईन्स, नागपुर - 440 001
Regd. Office : Coal Estate, Civil Lines, Nagpur - 440 001

फ़ोन नं/0 0712 - 2511216
e-Mail ramehar@westerncoal.gov.in

BOARD MATTER
CONFIDENTIAL

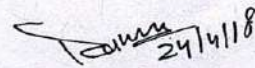
REF: WCL/BD/SECTT/BM-299/2018/1413

DATE: 24.04.2018

Reproduced below is the relevant excerpt from the minutes of 299th meeting of the Board of Directors of WCL held on 10th April, 2018:

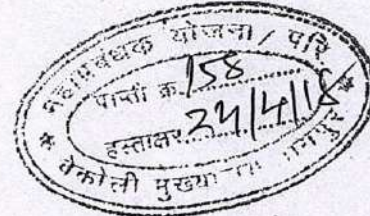
"ITEM NO.299/ C-8
SUB Recast Project Report of Sharda UG Mine (including mining plan) Feb 2018 of Kanhan Area.

- i) While deliberating on the subject, Director (Tech) P&P apprised the salient features of the Project to the Board. It was also apprised the necessity to open the Underground Mines for gainfully utilizing the excess manpower from the Mines proposed for closure. Some of the members expressed that Underground Mines are not viable and for such small quantity of coal this capital investment is not advisable.
- ii) However, to engage the surplus manpower, the Board, after deliberation approved the Recast Project Report of Sharda UG Mine (including mining plan) February, 2018 of Kanhan Area for 0.378 MTY capacity in option-2 with total capital of Rs.56.8234 crore yielding 12.11% at 85% (50% Steam G-8 for Non-power Sector and 50% Slack G-10 for Power Sector).
- iii) GM (P&P) to take necessary action in the matter.

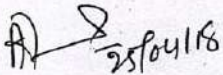

COMPANY SECRETARY

✓ GENERAL MANAGER (P&P)

CC: DIRECTOR (TECHNICAL) OP
DIRECTOR (PERSONNEL)
DIRECTOR (FINANCE)
DIRECTOR (TECHNICAL) P&P



m (m)/SA


25/04/18

9.5 HA
over labels

STRICTLY RESTRICTED
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RECAST PROJECT REPORT (INCLUDING MINING PLAN)

FOR

SHARDA U/G MINE (KANHAN AREA)

WESTERN COALFIELDS LIMITED
(JOB No. - 4101832)

VOLUME - I
(EXECUTIVE SUMMARY)



MARCH - 2018

299
APPROVED ON 29th MCL Board
Meeting held on 24th May 2018
CAPITAL (IN CRS) 56.8234
CAPACITY 0.378 MTY
LIFE 23 yrs
REMARKS: - Option - 2

29th 10/04

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
JARIPATKA, NAGPUR, PIN - 440 014

AN ISO 9001:2000 COMPANY

CERT. NO.: CI/8656

70.0 MINE CLOSURE COST

As directed through memorandum No. 55011-01-2009-CPAM of Government of India, Ministry of Coal, Shastri Bhawan, New Delhi dated 27/08/2009, Mine Closure Plan has to be enclosed with all PRs / EMPs. In the Annexure to this memorandum, guidelines for preparing the Mine Closure Plan and assessing the capital cost of mine closure have been specified.

Mine Closure cost has been computed based on the recent guidelines circulated by Government of India, Ministry of Coal, Shastri Bhawan, New Delhi. The closure activities will include subsidence survey for a period of 3 years after mine closure, filling of subsidence cracks, fencing of caved out area and post-project monitoring for a period of 3 years after mine closure.

Taking the recent guidelines into consideration, the Mine Closure Cost in this Recast Project Report for Sharda U/G Mine works out to Rs. 10.98/t. Considering first year of the project as 2018-19, the mine closure cost has been calculated as follows :

CALCULATION OF MINE CLOSURE COST		
1	Total Area of the Mine (ha)	310.92
2	WPI value as on August 2009 (Base WPI)	83.02
3	WPI value of current available month (Dec' 2017 - Provisional)	115.7
4	Ratio of WPI (December 2017 : August 2009) - $[(4) = (3 \div 2)]$	1.393640087
5	Amount to be considered for underground (Rs. / ha)	100000
6	Total Mine Closure Corpus Fund for 2017-18 (Rs. 000s) - $[(6) = (1 \times 4 \times 5)]$	43331
7	Total Life of Sharda U/G Mine (Years)	23
8	Annual Mine Closure Cost for 2017-18 (Rs. 000s)	1884
9	Annual Mine Closure Cost for 1st year of the project (2018-19) With escalation @ 5% per annum (Rs. 000s)	1978

The annual mine closure cost with 5% annual escalation for proposed Sharda UG mine is tabulated below :

YEAR	Amount per Year (Rs. 000s)	Production (Mt)	Amount (Rs. / t)
1 (2018-19)	1978		
2	2077		
3	2181		
4	2290	0.120000	18.18
5	2405	0.240000	9.54
6	2525	0.378000	6.36
7	2651	0.378000	6.68
8	2784	0.378000	7.01
9	2923	0.378000	7.37
10	3069	0.378000	7.73
11	3222	0.378000	8.12
12	3383	0.378000	8.52
			8.95

YEAR	Amount per Year (Rs. 000s)	Production (Mt)	Amount (Rs. .
13	3552	0.378000	9.40
14	3730	0.378000	9.87
15	3917	0.378000	10.36
16	4113	0.378000	10.88
17	4319	0.378000	11.43
18	4535	0.378000	12.00
19	4762	0.378000	12.60
20	5000	0.378000	13.23
21	5250	0.302213	17.37
22	5513	0.216000	25.52
23	5789	0.169603	34.13
Total	81968	7.095816	11.55
Mine Closure Cost (excluding Revenue Expenditure Capitalised) to be considered in Appendix-C (Rs./t)			10.98

From the above table, it can be seen that the Total Amount of Mine Closure Cost Corpus Fund works out to Rs. 8.1968 Crores.

20.1 Activity wise Break-up of Mine Closure Cost

The activity wise break-up of total mine closure corpus fund is shown in the following table:

Sl. No.	Activity	% of Total Mine Closure Cost	Amount (Rs. 000s)
A	Dismantling of structures:		
	Service Buildings	3.50%	2868.88
	Residential Buildings	37.58%	30803.57
	Industrial Structures like CHP, Workshop, Field Sub-station, Cap lamp room, Haulage, Fan Installation etc.	6.33%	5188.57
B	Permanent sealing of mine entries (incline mouth and air shaft):		
	Sealing of incline mouths and air shafts.	2.32%	1901.66
C	Subsidence Management:	1.75%	1434.44
D	Landscaping:		
	Landscaping of the clear land for improving its aesthetics	5.80%	4754.14
E	Plantation:		
	Plantation over the cleared area obtained after dismantling and on other Barren Spaces.	10.00%	8196.80
F	Monitoring / Testing of parameters for three years:		
	Air Quality	3.83%	3139.37
	Water Quality	3.34%	2737.73
G	Entrepreneurship development (Vocational / Skill Development) Training for sustainable income of affected people:	4.65%	3811.52
H	Misc. and other mitigative measures:	11.60%	9508.29
I	Man power cost for supervision:	9.30%	7623.03
Total		100%	81968