

केवल नागपुर कोर्ट के अधिकार में

Under Jurisdiction of Nagpur Court Only



वेस्टर्न कोलफील्ड्स लिमिटेड
WESTERN COALFIELDS LIMITED
(मिनीरत्न कंपनी) (A Miniratna Company)
(कोल इंडिया लि. की अनुषंगी कंपनी)
(A Subsidiary of Coal India Limited)



एक कदम स्वच्छता की ओर

Office of the Sub Area Manager
Ghonsa Sub Area.
www.westerncoal.nic.in

उपक्षेत्रीय प्रबन्धक का कार्यालय
घोंसा उपक्षेत्र

Ghonsa Sub Area,
Wani North Area
घोंसा उपक्षेत्र, वनी उत्तर क्षेत्र

पंजी.का: पो.रासा, तह. वनी, जि. यवतमाल (महाराष्ट्र)-445304/ Regd. Off Po Rasa, Tah Wani, Dist. Yavatmal Mah- 445304
संदर्भ संख्या: वेकोलि/व.ना.क्षे./घो.उ.क्षे./उ.क्षे.प्र./2025-26/ 320

दिनांक : 26/05/2025

प्रति,
अपर मुख्य प्रधान वन संरक्षक,
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
क्षेत्रीय कार्यालय (पश्चिम केन्द्रीय क्षेत्र),
भूतल, ईस्ट विंग, न्यू सेक्रेटरीएट बिल्डिंग,
सिविल लाइन्स, नागपुर - 440 001 (महाराष्ट्र राज्य)

विषय:- Six Monthly Compliance Report of Conditions Stipulated in Environmental Clearance for **Kumbharkhani Underground Coal Mine (0.60 MTPA)** of Wani North Area, WCL for the period **October'2024 to March'2025**.

महोदय,

With reference to above subject matter, please find enclosed herewith the Six Monthly Compliance Report of Conditions Stipulated in Environmental Clearance for **Kumbharkhani Underground Coal Mine (0.60 MTPA)** of Wani North Area, WCL for the period **October'2024 to March'2025** for your kind information please.

Thanking you Sir.

भवदीय,

उपक्षेत्रीय प्रबंधक
घोन्सा उपक्षेत्र

प्रतिलिपि:

- क्षेत्रीय महाप्रबन्धक, वणी नार्थ क्षेत्र
- महाप्रबंधक (पर्यावरण/विभागाध्यक्ष), वेस्टर्न कोलफील्ड्स लिमिटेड, मुख्यालय, नागपुर, महाराष्ट्र - 440 001
- क्षेत्रीय अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण बोर्ड, प्रथम तल, उद्योग भवन, स्टेशन रोड, चंद्रपुर, महाराष्ट्र - 442 401
- क्षेत्रीय नोडल अधिकारी(पर्या.), वणी नार्थ क्षेत्र



Ministry of Environment & Forests (MOEF)

No. J-11015/1235/07-I A II (M)

Paryavaran Bhawan,
CGO Complex,
New Delhi-110510.

To

Dated: 26th July 2010

Chief General Manager (EB&F),
M/s Western Coalfields Ltd.
Coal Estate, Civil Lines,
NAGPUR - 440001.

Sub: Kumbharkhani U/G Expansion Coal Mine Project (0.36 MTPA to 0.60 MTPA and ML area from 327.00 ha to 442 ha) of M/s. Western Coalfields Ltd, located in village Kumbharkhani, Tehsil Wanl, Dist. Yavatmal, Maharashtra- Environmental Clearance-regarding

Sir,

This has reference to letter No 43011-177-2007-CPAM dated 14.12.2007 of Ministry of Coal forwarding your application for TOR, which was granted vide MOEF letter dated 18.02.2008 and your application for environmental clearance dated 05.04.2010/2009 and letter dated 12.05.2010 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. It is noted that environmental clearance was obtained for the **existing Kumbharkhani Underground Coalmine Project** vide MOEF letter No. J-11015/17/95 dated 20.05.1998 for 0.36 MTPA production capacity. The present proposal is for **expansion in terms of production capacity from 0.36 MTPA to 0.60 MTPA and expansion in lease area from 327 ha to 442 ha.** There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone. Reserve Forest is found within the core and buffer zone. Of the total ML, 408.57 ha is agriculture land and 33.43 ha is forestland (Zudpi Jungle). No forestland would be broken for surface structures. Forestry clearance for mining rights has been applied for. Of the total ML area, surface rights are for 28.43 ha which consists of agriculture land and mineral rights are for 413.57 ha. The expansion in ML area would involve an increase of mining rights only to an extent of 80.14 ha of agriculture land and 33.43 ha forest land. River Vaidarbha flows at a distance of 1.57-2.0 km along the mine lease boundary. It is not proposed to modify the existing drainage of the area. No embankment is proposed to be constructed. Of the surface area of 28.43 ha, 10.17ha is for infrastructure (workshop and administrative building), 18.26 ha for township. Mining will continue to be underground by Bord & Pillar with extraction of developed pillars in conjunction with hydraulic sand stowing and no strata disturbance and subsidence anticipated. Coal transportation of about 2000 TPD upto surface CHP would be by series of belt conveyor and thereafter, 1600 TPD would be by road to miscellaneous consumers and 400 TPD would be by rail covering a distance of 30 km by road to railway siding. Method involves drilling and blasting. Water table is in the range of 2-12.4m bgl during pre-monsoon and in the range of 1.0-12 (m bgl) during post-monsoon in the study area. Mining has intersected water table. Peak water demand is 700 m³/d of water of which, 10m³/d is for mine operation/workshop, 50 m³/d for dust suppression, 20 m³/d is for

others, and 600 m³/d is for township. The entire water requirements would be met from mine sump/pit water. No groundwater will be used. Mine water discharge will be 1650m³/day. The balance life of the mine at the rated capacity is 20 years. No R&R is involved. There is no plan to relocate village Ghonsa located within the leasehold area as underground mining is with hydraulic sand stowing and no subsidence is expected as by Subsidence Prediction Modelling undertaken. Cost of Environment protection measures is Rs 14.65 lakhs. Public Hearing was held on 22.12.2008. Project approval of M/s WCL was obtained on 15.7.2008. Capital cost of the project is **Rs. 45.78 Crores.**

2. The Ministry of Environment & forests hereby accords environmental clearance for the above-mentioned **Kumbharkhani Underground Coal Mine of M/s Western Coalfields Ltd.** for expansion in production from 0.36 MTPA to 0.60 MTPA and ML area from 327.00 ha to 442 ha under Section 7(ii) of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- (i) No mining shall be undertaken below 33.43 ha of forestland until forestry clearance has been obtained for mining rights.
- (ii) No forestland shall be diverted for surface structures.
- (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) Mining shall be carried out as per statute at a safe distance from the river/nallah flowing adjacent to the lease boundary.
- (v) High root density tree species shall be selected and planted over areas likely to be affected by subsidence.
- (vi) Coal Extraction shall also 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.
- (vii) Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement with the landowners.
- (viii) 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 and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also provided adequate retention period to allow proper settling of silt material.
- (ix) Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.

- (x) A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township etc, by planting native species in consultation with the local DFO/Agriculture Department.
- (xi) Regular monitoring of groundwater level and quality 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. 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.
- (xii) The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource, in case water table shows 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.
- (xiii) 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 an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.
- (xiv) Activities under CSR undertaken for the neighbouring villages shall be for not less than Rs 5 per tonne of coal and the progress made thereon shall be uploaded on the company annually on the company website.
- (xv) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

B. General Conditions

- (i) No change in 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 quantum of mineral coal and waste being produced 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 monitoring PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in RSPM etc. shall be carried out at least once in six months.
- (iv) Data on ambient air quality (PM10, PM2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EP Rules, 1986 shall be furnished as part of the compliance report.

- (v) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- (vi) Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.
- (vii) Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.
- (viii) Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.
- (ix) Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contraindications due to exposure to dust and to take corrective measures, if needed.
- (x) 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.
- (xi) 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.
- (xii) 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://envyfor.bic.in>
- (xiii) A copy of the environmental clearance letter shall be marked to concerned Panchayat/Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.
- (xiv) A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xv) The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as SPM, RPM, SO₂ and NO_x (ambient and stack if any)

and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.

- (xvi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.
 - (xvii) 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.
 - (xviii) The environmental statement for each financial year ending 31st March in Form V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by e-mail.
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986
5. The above conditions will be enforced *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

(Dr. T. Chandan)
Scientist

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admin. Bldg., Madam Cama Road, MUMBAI - 400032.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arear Colony, Bhopal - 462016.
4. Chairman, Maharashtra State Pollution Control Board, Kalpataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400022.
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, Quilon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. Shri M.K. Shukla, CGM, Coal India Limited, SCOPE Minar, Core-I, 4th Floor, Vikas Marg, Laxminagar, New Delhi.
8. District Collector, Yavatmal Government of Maharashtra.

**Ministry of Environment, Forests & Climate Change,
Regional Office (W), Nagpur**

MONITORING PROFORMA: PART – I (DATA SHEET)

Name of the Project	Kumbharkhani UG Coal Mine
Location and address	20 Kms, away from Wani to Pandharkawada via Ghonsa Village.
Address for correspondence	Office of the Sub Area Manager, Ghonsa Sub Area, Post-Rasa, Tah- Wani, Dist- Yavatmal, State- Maharashtra.
MoEF&CC Clearance Letter No. & Date	Letter No.J-11015/1235/07-IA.II(M) dated 26 th July, 2010.
Period of Status Report	From October' 2024 to March' 2025.
Date of commencement of the project Work	28/02/2000

STATUS OF LAND ACQUISITION:-

Type of Land	Required as per EMP (ha)	Actual acquired (ha) As on 31.03.2025	Remarks
Forest	33.43	33.43	Only Mining Rights acquired
Agriculture	408.57	408.57	Only Mining Rights acquired
Other	--	--	
Total	442.00	442.00	

STATUS OF LEGAL COMPLIANCES: -

a. Consent under Air (Prevention and Control of Pollution) Act.	Consent is granted by MPCB vide consent no. BO/JD(APC)/EICNo.CH-1795-16/R/CC-7436 dated 01.06.2016, valid upto 31/10/2020. Mine is not currently in operation.
b. Consent under Water (Prevention and Control of Pollution) Act	
c. Environment (Protection) Act.	Environment clearance accorded by MoEF & CC, Delhi vide letter No J-11015/1235/07-IA.II(M) dated 26 th July, 2010.
d. Forest (Conservation) Act	N.A.

PART-III **STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP**

Land Use Status: N.A.

S.N.	Particulars	As per EMP	Current Year	Progressive
1.	Area excavated (Ha)	This is underground mine. Hence not applicable.		
2.	Top soil removed (MM ³)	-----do-----		
3.	OB removed (MM ³)	-----do-----		
4.	OB back filled (MM ³)	-----do-----		
5.	OB dumped (MM ³)	-----do-----		
6.	Area recovered for reclamation (Physical Reclamation)	-----do-----		
7.	Area reclaimed biologically (tree plantation on backfilled area)	N.A.		

Production:

Present Capacity: Previous year's production figures are:

Year	Coal Production (Tons)
2021-22	Nil
2022-23	Nil
2023-24	Nil
2024-25	Nil

Coal Production from Kumbharkhani UG mine has been stopped from February, 2018 and mine closure activities are in progress.

iii). Afforestation: (Figures in Numbers): 13,000 Nos.

S.No	Locations	Current Year	Proposed
1.	OB dump & embankments	This is underground mine. Hence not applicable.	
2.	Safety Zones	-----do-----	
3.	Backfilled Area	-----do-----	
4.	Other area	-----do-----	
	TOTAL	-----do-----	

Area under plantation (progressive)	:	5.2 Ha. (13000 Nos)
No. of plants per Hectare.	:	2500 Nos.
Species planted up to date	:	Ashoka, Cassia, Karanj Ber Subabul, Cassia, Neam, Amala, Khair, Teak, Shivaneta

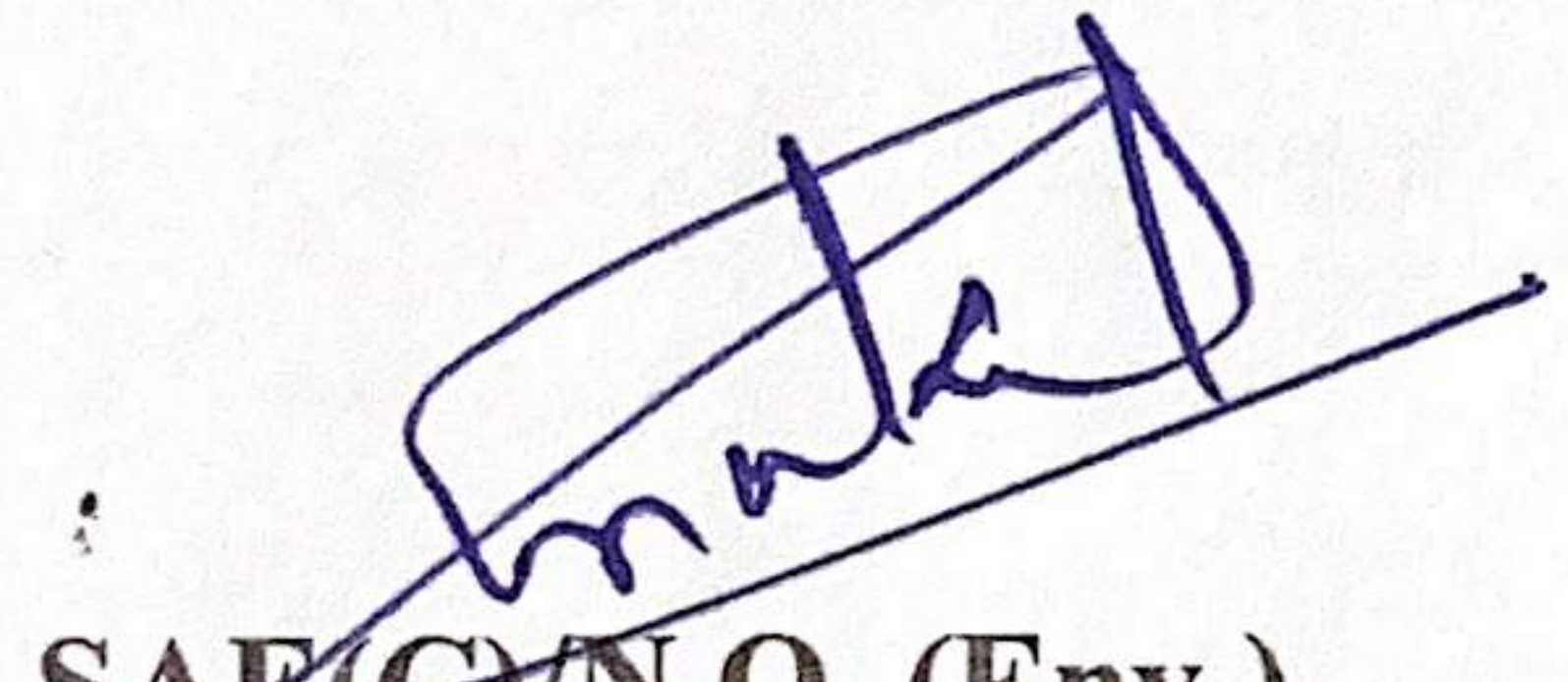
Rehabilitation and Resettlement:-

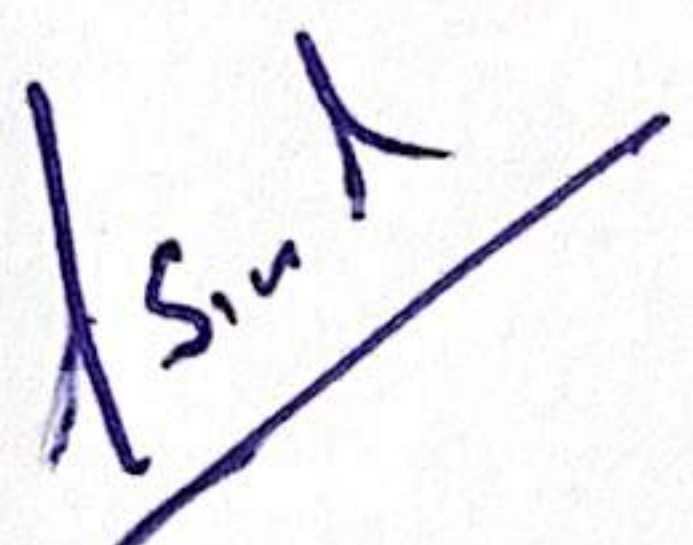
S. N.	Particulars	Status
1.	No. of land oustees	17
2.	No. of land outstees rehabilitated	: All the land oustees are provided employment OR monitory compensation as per company norms
3.	No. of PAPs/PAFs to be resettled	: NA
4.	No. of PAPs/PAFs resettled	: NA
5.	Area of new site (ha)	: NA
6.	Status of development	: NA
7.	Civic amenities provided at new	: NA

ORGANIZATIONAL SET UP AT PROJECT LEVEL :-

Name and designation of the persons to be given :

- (1) Shri Syed Nazimuddin, SAM, Ghonsa Sub Area
- (2) Shri D. P. Singh Panihar, Mine Manager, Kumbharkhani UGM
- (3) Shri Shridhar Dhakite, NO(Environment)/SAE(C), Ghonsa Sub Area


SAE(C)/N.O. (Env.)
Ghonsa Sub Area


Colliery Manager
Kumbharkhani UG


Sub Area Manager
Ghonsa Sub Area

EXPENDITURE STATEMENT

CAPITAL HEAD:-

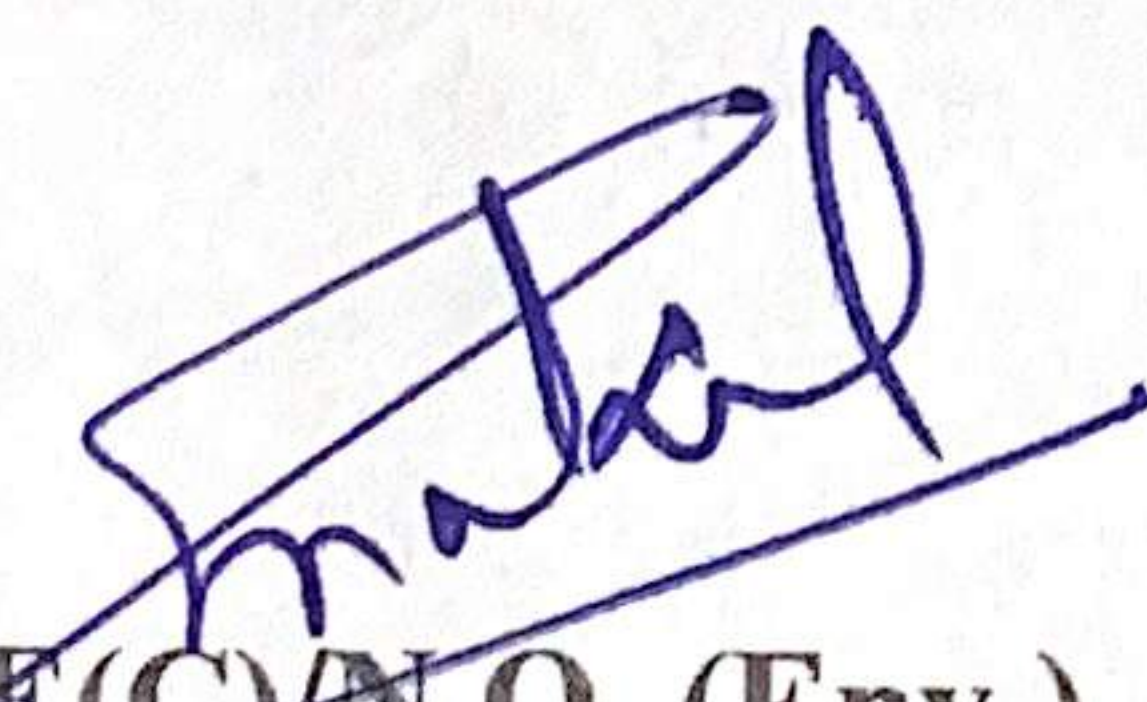
(Rs. in Lakhs)

Account Head	Current Period	Progressive up to 31' March'2025
Air Pollution Control Dust Suppression Work (Providing Rain Guns including pipe line)	-	12.04
Others (Sedimentation tank, drain, katcha pond)	-	30.14
TOTAL	-	42.18

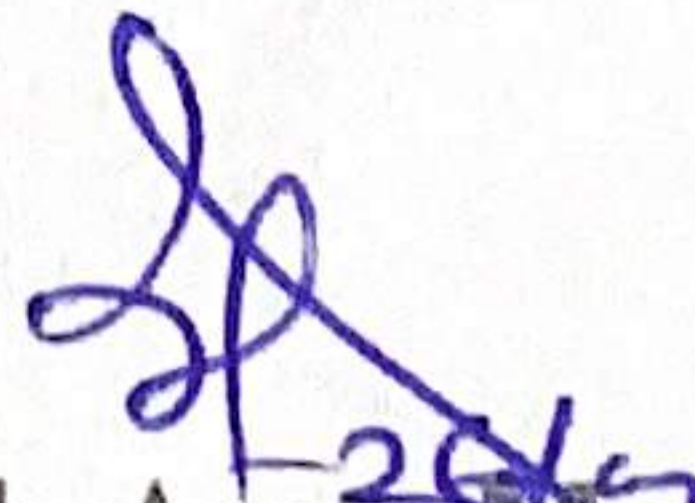
REVENUE HEAD:-

(Rs. in Lakhs)

Account Head	Current Period	Progressive up to 31' March'2025
Afforestation	--	6.78
Monitoring (MPCB Analysis and Consent Fees of KKUG expansion)	--	13.37
Legal Expenses (Water Cess & Environment Statement)	--	0.37
Others (Sweeping & Brooming of road, cleaning of mine water sedimentation tank)	--	28.36
TOTAL	--	48.88


SAE(C)/N.O. (Env.)
Ghonsa Sub Area


Colliery Manager
Kumbharkhani UG


Sub Area Manager
Ghonsa Sub Area

**SIX MONTHLY COMPLIANCE STATUS
OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS
(For the period October' 2024 to March' 2025)**

Name of the Project: Kumbharkhani Underground Coal Mine (0.60 MTPA)
EC Letter No.: MoEF& CC vide EC Letter No.: J-11015/1235/07-IA.II(M)
dated 26th July, 2010

A. Special Conditions:-

Sr. No.	Conditions	Compliance
i)	No mining shall be undertaken below 33.43 ha of forestland until forestry clearance has been obtained for mining rights.	Agreed
ii)	No forestland shall be diverted for surface structures.	Agreed
iii)	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage patten, water bodies, vegetation, structure, roads and surrounding 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.	Agreed All conditions laid down by DGMS will be followed so as to prevent any adverse effect of subsidence
iv)	Mining shall be carried out as per statuette at a safe distance from the river/nallah flowing adjacent to the lease boundary.	All the norms has been followed as per the environmental conditions given by EC
v)	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Such types of plant are planted over the affected area.
vi)	Coal Extraction shall also be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No coal depillaring shall be <u>undertaken</u> below areas of habitation.	This UG mine is being run following the statues like viz. coal mines regulations 1957 mines act 1952 and other related acts/rules As per the statutes all the specific safety requirement with special reference to the mine are taken during day to day operation. Coal Production from Kumbharkhani UG mine has been stopped from February' 2018 Coal depillaring is not done.
vii)	Subsidence shall be monitored closely and if subsidence is found exceeding the	Noted and agreed. It will be followed.

	permitted limits, then the landowners shall be adequately compensated with mutual agreement with landowners.	
viii)	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 and above the peak sudden rainfall and maximum discharge in the area adjoin the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	The work of drain surrounding coal dumps has been completed. Regarding drains to be constructed around subsidence area, it is mention here that subsidence takes place only after depillaring starts & continues for some time. This depillaring operation is started only after due permission is taken from DGMS. In the permission letter DGMS specifies all the precautions needed to be taken during depillaring and the actual operation is carried out accordingly. It may be worthwhile to mention here that depillaring is yet to be started in this mine & hence necessary construction of drain will be taken up before starting depillaring.
ix)	Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.	Fixed water sprinkler (Rain guns) had been provided for dust suppression at loading point, CHP, along coal transportation road, transfer point etc. Major approach road is black topped and concrete road has been provided for coal transportation. It is worth here to mention that the mine is not operating right now
x)	A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township etc. by planting native species in consultation with the local DFO/Agriculture Department.	It is being developed regularly in the Mine lease area covering various infrastructure, along coal transport roads, township etc. The total plantation carried out so far is 13000 nos (Ashoka, Cassia, Karanj Ber Subabul, Cassia, Nea, Amala, Khair, Teak, Shivaneta etc.). and area covered is 5.2 Ha. There is no OB dump as it is a U/G mine. The density of trees is around 2500 plants/ha.
xi)	Regular monitoring of ground water level and quality 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. Data thus collected shall be submitted to the Ministry of Environment, Forests & climate change and the Central Pollution	Currently the mine is not in operation.

	Control Board quarterly within one month of monitoring.	
xii)	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Rain water harvesting measures have already been taken with due consultation with the concerned village Panchayat through de-silting/ deepening of existing pond in the following villages: In July 2015, deepening of pond at Rasa and Kumbharkhani village has been done for ground water recharge. At Kumbharkhani Village pond: Deepening size: (65m x 40.m x 1.08m) Expenditure: 4.21 Lakh At. Rasa Village pond: Deepening size: a. (50m x 50m x 0.60) b.(40m x 20m x 0.94m) c.(40m x 15m x 0.94m) Expenditure: 4.47Lakh The quantum of water will be stored 2700KL at Rasa & 2800KL Kumbharkhani village. (approximately)
xiii)	Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.	Periodical medical examination/health checkup of workers are regularly done in WCL hospital. Currently the mine is not in operation and entire man power had been shifted to other projects.
xiv)	Activities under CSR undertaken for the neighbouring villages shall be for not less than Rs. 5 per tonne of coal and the progress made thereon shall be uploaded on the company annually on the company website.	As per CSR policy of Coal India Limited Rs. 2/tonne of coal produced or 2% of profit whichever is more is spent on CSR works.
xv)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Progressive Mine closure plan has been prepared and duly approved by WCL Board. The corpus fund has been deposited in escrow account

B. General Conditions:-

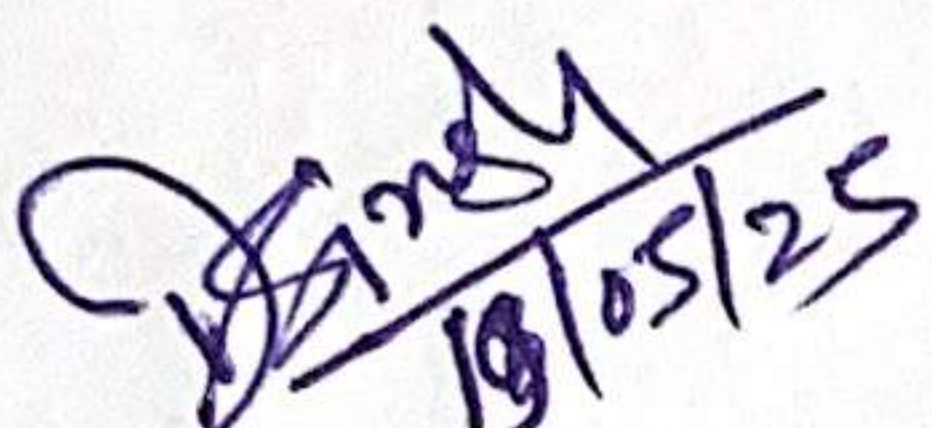
Sr. No.	Conditions	Compliance										
i)	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.	Noted. No change in mining technology and scope has been made										
ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Noted. <table><tr><th>Year</th><th>Coal Production (Tons)</th></tr><tr><td>2021-22</td><td>Nil</td></tr><tr><td>2022-23</td><td>Nil</td></tr><tr><td>2023-24</td><td>Nil</td></tr><tr><td>2024-25</td><td>Nil</td></tr></table>	Year	Coal Production (Tons)	2021-22	Nil	2022-23	Nil	2023-24	Nil	2024-25	Nil
Year	Coal Production (Tons)											
2021-22	Nil											
2022-23	Nil											
2023-24	Nil											
2024-25	Nil											
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 ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	Currently the mine is not in operation										
iv)	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	Currently the mine is not in operation										
v)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Currently the mine is not in operation										

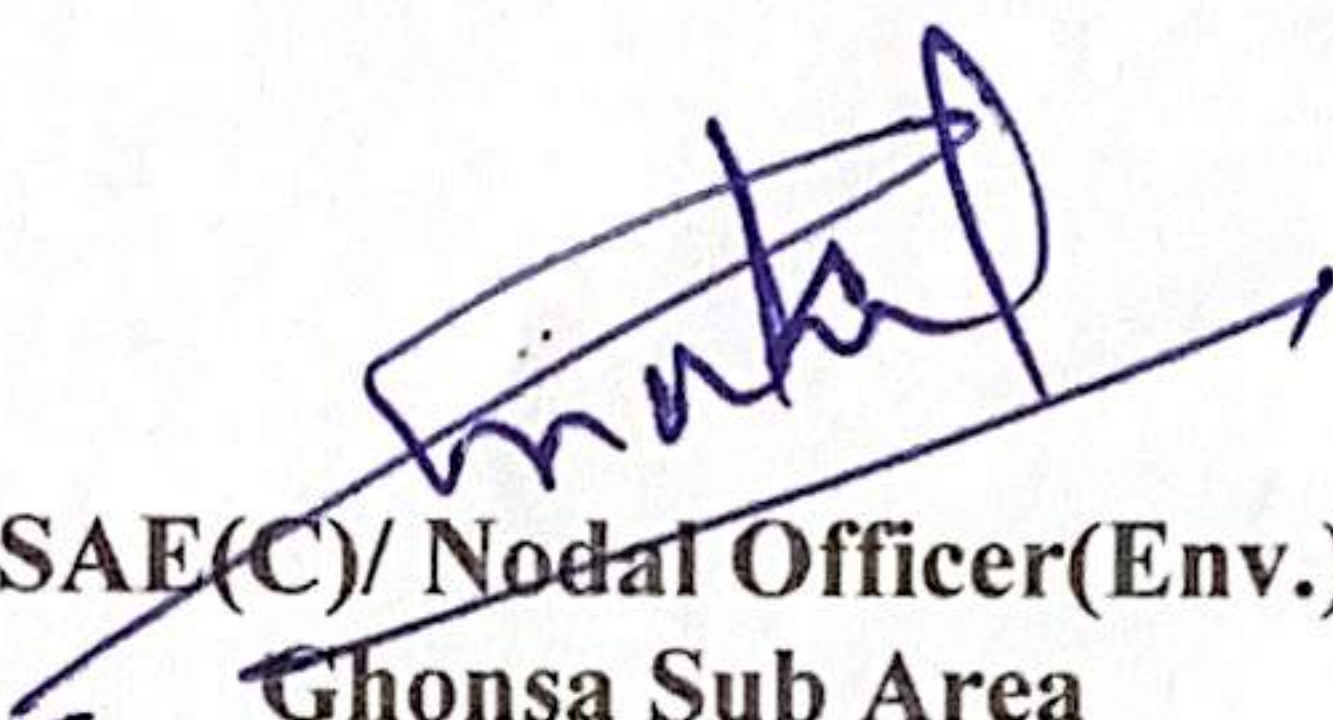
vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Currently the mine is not in operation. Hence there is no discharge.
vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Currently the mine is not in operation
viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognized under EPA Rules, 1986.	Currently the mine is not in operation
ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	The mine is not in operation right now Entire man power had been shifted to other project.
x)	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.	At unit level Environmental Management Cell is headed by Nodal Officer (Environment) who reports to Sub Area Manager. At area level Environmental Management Cell is headed by Area Nodal Officer (Env.) and assisted by Asst. Manager (Env.) who report to Area General Manager. At company level Environmental Management Cell is

		headed by General Manager (Environment)/HOD assisted by qualified and experienced environmental engineers who directly report to the Director (Project & Planning), WCL.
xi)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Funds earmarked for environmental protection measures are kept in separate account and not diverted for other purpose. Report of expenditure is sent to Ministry. Expenditure under Environment head is given in this report earlier under Statement of Environment Expenditure.
xii)	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at http://envfor.nic.in .	Information regarding Environmental Clearance for 0.60 MPTA expansion has been accorded to has been advertised in two local news papers: 1. The Hitavada dated 13 th August, 2010 (English Daily news paper) 2. देशोन्नती (यवतमाल), दिनांक 13 अगस्त, 2010 (Marathi Daily news paper)
xiii)	A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	Complied. A copy of environmental clearance letter has been already sent to concern Sarpanch of village Panchayat.
xiv)	A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.	Not applicable.
xv)	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project	Complied. Environmental Clearance letter has been uploaded on WCL's website (www.westerncoal.gov.in)

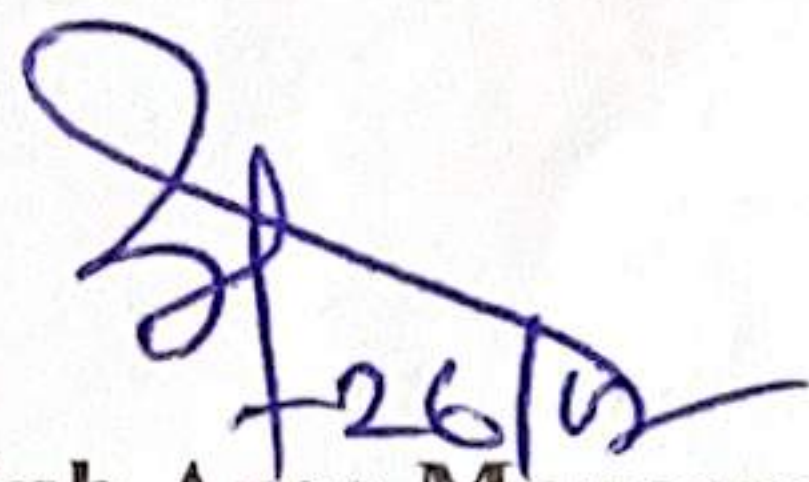
	authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5} SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	Link for EC letter: https://westerncoal.in/index1.php/StaticPage/154
xvi)	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Offices of CPCB and the SPCB.	Complied. Six monthly compliance reports are being sent regularly to concerned authority.
xvii)	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	All necessary co-operations will be extended to Regional Office, MoEF & CC, Nagpur.
xviii)	The Environmental statement for each financial year ending 31 March in Form - V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.	Environmental Statement for each financial year ending 31st March in Form - V is being submitted online on webportal of Maharashtra Pollution Control Board. Environmental Statement-Form V for 2019-20 has been submitted on online portal of MPCB dated 29.09.2020 Currently the mine is not in operation
3	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
5	The above conditions will be enforced inter-alia, under the provisions of the Water	Noted.

(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. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.


Survey Officer
Kumbharkhani UG Mine


SAE(C)/ Nodal Officer(Env.)
Ghonsa Sub Area


Mine Manager
Kumbharkhani UG Mine


Sub Area Manager
Ghonsa Sub Area

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



APRIL 2022

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/APR-22/45	DATE OF ISSUE	31.05.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/ HQ/ Environment/ 14-I/206-220 , Dt. 25.03.2022		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KUMBARKHANI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PROJECT MANAGER OFFICE WNKUA1							
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	
10.04.2022	11.04.2022	5	5	2	6	10	Clear Sky / Lightbreeze
22.04.2022	23.04.2022	269	173	63	26	14	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN WNKUA2							
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	
10.04.2022	11.04.2022	236	150	62	24	16	Clear Sky / Lightbreeze
22.04.2022	23.04.2022	226	148	54	22	14	Clear Sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
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	
10.04.2022	11.04.2022	112	62	35	16	10	Clear Sky / Lightbreeze
22.04.2022	23.04.2022	128	68	38	14	BDL	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE WNGOA3							
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	
10.04.2022	11.04.2022	122	62	40	16	12	Clear Sky / Lightbreeze
22.04.2022	23.04.2022	130	76	48	14	10	Clear Sky / Calm
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu
Authorised Signatory

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NOISE LEVEL MONITORING DATA

FAN HOUSE: WNKUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
APR'22	09.04.2022	58.6	57.4
APR'22	25.04.2022	58.1	57.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: WNKUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
APR'22	09.04.2022	44.1	43.9
APR'22	25.04.2022	45.2	44.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



MAY 2022

Environment Laboratory

NABL ACCREDITED VIDE NO TC-7102 UP TO 28.06.2022

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/MAY-22/45	DATE OF ISSUE	25-06-2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
CUSTOMER LETTER REFERENCE NO.	WCL/ HQ/ Environment/ 14-I/206-220 , Dt. 25.03.2022		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)		
NAME OF AREA	WANI NORTH	SAMPLING PLAN : LQR 47	
NAME OF PROJECT	KUMBARKHANI UG		
SAMPLE DESCRIPTION	Air sample		
SAMPLING METHOD : LSOP 4			

PROJECT MANAGER OFFICE WNKUA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13-05-2022	14-05-2022	264	168	64	22	16	Cloudy Sky / M.Breeze
23-05-2022	24-05-2022	248	158	63	20	14	Cloudy Sky / L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN WNKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13-05-2022	14-05-2022	234	146	60	24	18	Cloudy Sky / M.Breeze
23-05-2022	24-05-2022	232	148	58	22	16	Cloudy Sky / L.Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13-05-2022	14-05-2022	116	58	32	16	12	Cloudy Sky / M.Breeze
23-05-2022	24-05-2022	126	64	36	12	10	Cloudy Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE WNGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
13-05-2022	14-05-2022	120	64	36	16	12	Cloudy Sky / M.Breeze
23-05-2022	24-05-2022	122	70	38	14	BDL	Clear Sky / L.Breeze
NAAQS, 2009		-	100	60	80	80	



Analysed by



Deepanshu sahu

Authorised Signatory

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NOISE LEVEL MONITORING DATA

FAN HOUSE: WNKUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'22	11.05.2022	56.7	55.3
MAY'22	25.05.2022	55.9	54.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: WNKUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'22	11.05.2022	45.8	44.1
MAY'22	25.05.2022	44.1	43.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JUNE - 2022

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.		RIN/TR/JUN-22/45		DATE OF ISSUE		28.07.2022	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		WANI NORTH		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		KUMBARKHANI UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

PROJECT MANAGER OFFICE WNKUA1							
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	
08.06.2022	09.06.2022	5	5	2	6	10	Cloudy Sky / Windy
23.06.2022	24.06.2022	258	162	62	20	14	Cloudy Sky / Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

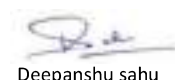
SAM OFFICE/ CANTEEN WNKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
08.06.2022	09.06.2022	230	142	56	22	16	Cloudy Sky / Windy
23.06.2022	24.06.2022	250	140	60	20	14	Cloudy Sky / Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
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	
08.06.2022	09.06.2022	120	60	34	14	12	Cloudy Sky / Windy
23.06.2022	24.06.2022	124	62	32	12	10	Cloudy Sky / Windy
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE WNGOA3							
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	
08.06.2022	09.06.2022	116	60	34	14	12	Cloudy Sky / Windy
23.06.2022	24.06.2022	118	62	30	16	BDL	Cloudy Sky / Windy
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu
Reviewed & Authorised By

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NOISE LEVEL MONITORING DATA

FAN HOUSE: WNKUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JUN'22	10.06.2022	58.1	57.4
JUN'22	25.06.2022	59.8	58.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: WNKUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JUN'22	10.06.2022	46.9	45.3
JUN'22	25.06.2022	46.7	45.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



JULY - 2022

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.		RIN/TR/JULY-22/45		DATE OF ISSUE		30.08.2022	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO.		WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022					
TEST REQUIRED		SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO ₂ : IS 5182 Part-06:2006(2017), SO ₂ :IS 5182 Part-2:2001(RA 2017)					
NAME OF AREA		WANI NORTH		SAMPLING PLAN : LQR 47			
NAME OF PROJECT		KUMBARKHANI UG					
SAMPLE DESCRIPTION		Air sample					
SAMPLING METHOD : LSOP 4							

PROJECT MANAGER OFFICE WNKUA1							
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	
11.07.2022	12.07.2022	220	120	62	22	16	Cloudy Sky / Windy
23.07.2022	24.07.2022	224	140	70	20	18	Cloudy Sky / Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

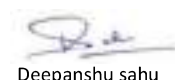
SAM OFFICE/ CANTEEN WNKUA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
11.07.2022	12.07.2022	230	128	66	20	16	Cloudy Sky / Windy
23.07.2022	24.07.2022	240	136	62	24	16	Cloudy Sky / Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
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	
11.07.2022	12.07.2022	120	68	34	12	10	Cloudy Sky / Windy
23.07.2022	24.07.2022	128	74	38	16	12	Cloudy Sky / Windy
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE WNGOA3							
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	
10.07.2022	11.07.2022	114	66	30	12	10	Cloudy Sky / Windy
23.07.2022	24.07.2022	118	72	46	14	12	Cloudy Sky / Windy
NAAQS, 2009		-	100	60	80	80	



Analysed by


Deepanshu sahu
Reviewed & Authorised By

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NOISE LEVEL MONITORING DATA

FAN HOUSE: WNKUN1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'22	14.07.2022	57.8	56.4
JULY'22	27.07.2022	50.2	49.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

COLONY: WNKUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'22	14.07.2022	45.1	44.9
JULY'22	27.07.2022	44.3	43.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



AUG - 2022

Environment Laboratory

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/AUG-22/26	DATE OF ISSUE	30.09.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		15/07/22 TO 13/08/22

PROJECT MANAGER OFFICE WNKUA1							
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	
06-08-2022	07-08-2022	189	97	50	24	18	Cloudy Sky / Rainy
24-08-2022	25-08-2022	148	100	56	18	14	Cloudy Sky / Windy
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN WNKUA2							
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	
06-08-2022	07-08-2022	210	110	56	16	14	Cloudy Sky / Windy
24-08-2022	25-08-2022	218	112	50	22	16	Clear Sky / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
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	
06-08-2022	07-08-2022	200	126	28	22	18	Cloudy Sky / Windy
24-08-2022	25-08-2022	220	140	38	16	14	Clear Sky / Light Breeze
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE WNGOA3							
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	
06-08-2022	07-08-2022	180	60	36	10	BDL	Cloudy Sky / Windy
24-08-2022	25-08-2022	200	67	48	12	10	Clear Sky / Light Breeze
NAAQS, 2009		-	100	60	80	80	

Ashwin B Wasnik
Reviewed by

Deepanshu Sahu
Authorised by

Analysed by

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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034



SEP - 2022

Environment Laboratory

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/SEP-22/26	DATE OF ISSUE	28.10.2022
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		15/09/22 TO 15/10/22

PROJECT MANAGER OFFICE WNKUA1							
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	
06-09-2022	07-09-2022	200	106	50	20	14	Cloudy Sky / Calm
26-09-2022	27-09-2022	180	98	52	18	10	Cloudy / Moderatebreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SAM OFFICE/ CANTEEN WNKUA2							
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	
06-09-2022	07-09-2022	196	104	46	22	16	Cloudy Sky / Calm
26-09-2022	27-09-2022	210	120	40	14	12	Cloudy / Moderatebreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

GUEST HOUSE/ COLONY WNKUA3							
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	
06-09-2022	07-09-2022	210	134	32	16	12	Cloudy Sky / Calm
26-09-2022	27-09-2022	200	130	28	18	12	Cloudy / Moderatebreeze
NAAQS, 2009		-	100	60	80	80	

GHONSA VILLAGE WNGOA3							
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	
06-09-2022	07-09-2022	120	64	40	8	BDL	Cloudy Sky / Calm
26-09-2022	27-09-2022	128	77	44	12	BDL	Cloudy / Moderatebreeze
NAAQS, 2009		-	100	60	80	80	


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**ENVIRONMENTAL MONITORING REPORT
w.r.t. HEAVY METALS IN AMBIENT AIR**

WANI NORTH AREA

WESTERN COALFIELDS LTD.



APRIL 2022 TO JUNE 2022

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102

CMPDI

REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air quality monitoring data for heavy metals	 TC-7102
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TEST REPORT NO.	RIN/TR/JUNE /HM74	DATE OF ISSUE	27-08-2022
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	WANI NORTH	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	KUMBHARKHANI UG	SAMPLING PLAN : LQR 47	
No. of Pages	1		

SI No.	Name of location	Location Code	Date of sampling
1	PROJECT MANAGER OFFICE	WNKUA-1	14-05-2022
2	SAM OFFICE /CANTEEN	WNKUA-2	14-05-2022
3	GUEST HOUSE /COLONY	WNKUA-3	14-05-2022

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value			National Ambient Air Quality Standard NAAQS, 2009
				WNKUA-1	WNKUA-2	WNKUA-3	
1	Arsenic, $\mu\text{g}/\text{m}^3$	ASTM D 4185	0.0007 $\mu\text{g}/\text{m}^3$	BDL	BDL	BDL	0.006 $\mu\text{g}/\text{m}^3$ (Annual average)
2	Lead, $\mu\text{g}/\text{m}^3$	IS 5182 PART 22	0.007 $\mu\text{g}/\text{m}^3$	BDL	BDL	BDL	1.0 $\mu\text{g}/\text{m}^3$ ⁽²⁴⁾ Hourly average)
3	Nickle, $\mu\text{g}/\text{m}^3$	ASTM D 4185	0.007 $\mu\text{g}/\text{m}^3$	BDL	BDL	BDL	0.02 $\mu\text{g}/\text{m}^3$ (Annual average)
4	Total Chromium, $\mu\text{g}/\text{m}^3$	ASTM D 4185	0.0045 $\mu\text{g}/\text{m}^3$	BDL	BDL	BDL	**
5	Cadmium, $\mu\text{g}/\text{m}^3$	ASTM D 4185	0.0015 $\mu\text{g}/\text{m}^3$	BDL	BDL	BDL	**

BDL: BELOW DETECTION LIMIT



SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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3	** This parameter not regulated as per NAAQS

REPORT ON
MONITORING OF GROUND WATER LEVEL AND GROUND WATER
QUALITY ANALYSIS FOR COAL MINES OF WCL
IN
WANI NORTH AREA
(MAHARASHTRA)

WESTERN COALFIELDS LTD.



PERIOD – NOVEMBER 2021 TO OCTOBER 2022



M/s Anacon Laboratories Pvt. Ltd., Nagpur

MoEF&CC (GOI) and NABL Recognized Laboratory
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

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Report No. ANqr /PD/20A/2022/291

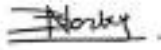
2021-22

Certificate

The Ground water Level monitoring and water quality analysis has been carried out with due diligence. The Monitoring of Ground Water Level of all observation well Reports have been prepared as per the scope of work order no. वेकोलि/मुख्यालय/पर्यावरण/14-L/83 on date: 03.11.2021.

The report encompasses the Monitoring of Ground water level of observation wells and ground water quality analysis results pertaining to the 07 mines of the Wani North area of Western Coalfields Limited situated at Yeotmal District, M.S.

Anacon Laboratories Pvt. Ltd. gratefully acknowledges the full cooperation rendered by concerned WCL Officials for timely completion of the project.



Sangharakshit. N. Borkar
(Geologist)



Gyanchand Bohra
NABET Accredited EIA Expert
for Hydrogeology & Geology



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

Nagpur.

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INTRODUCTION

Western Coalfields Limited (WCL) is one of the eight Subsidiary Companies of Coal India Limited (CIL) which is under administrative control of Ministry of Coal. The Company incorporated under the Companies Act, 1956 has its registered office at Coal Estate, Civil Lines, Nagpur-440001. WCL has been conferred "Mini-ratna" status on 15 March 2008. It has mining operation spread over the states of Maharashtra (in Nagpur, Chandrapur & Yeotmal Districts) and Madhya Pradesh (in Betul and Chhindwara Districts). It has been divided into 10 administrative areas. The Company is a major source of supplies of coal to the industries located in Western India in the States of Maharashtra, Madhya Pradesh, Gujarat and also in Southern India in the States of Andhra Pradesh, Tamil Nadu, Karnataka and Kerala. A large numbers of Power Houses under Maharashtra, Madhya Pradesh, Gujarat, Karnataka, Punjab and Uttar Pradesh - Electricity Boards are major consumers of its coal along with cement, steel, chemical, fertilizer, paper and brick Industries in these states.

M/s Anacon Laboratories Pvt. Ltd. has been awarded the Work of "Groundwater level Monitoring (i.e. bore well / piezometer Water levels) and Water quality analysis (as per IS10500) for 82 projects / mines of WCL (situated in the state of Madhya Pradesh – Chhindwara & Betul districts and Maharashtra – Nagpur, Chandrapur & Yeotmal districts) for one year as per condition stipulated in Environmental Clearance letters issued by MoEF & CC & NOC issued by CGWA" vide work order वेकोलि/मुख्यालय/पर्यावरण/14-L/83 on date: 03.11.2021.

This Ground Water Level Monitoring report is prepared for Ghonsa-OC-Expansion, Junad-Deep- Extension OC, Ukni-Deep-OC, Kolar-Pimpri-Expansion OC, Rajur UG, Pimpalgaon-OC-Expansion, Kumbarkhani-UG-Expansion mines of Wani North area of WCL for 4 seasons i.e. November 2021 (Post-Monsoon), January 2022 (winter), April-May 2022 (Pre-Monsoon) & August 2022 (Monsoon). These mines are located in Wani North Area of Yeotmal District, Maharashtra.

GENERAL HYDROGEOLOGICAL CONDITION

Deccan Trap Basalt is the predominant water bearing formation, followed by Gondwana formation having Sandstone and Shale sequence. Penganga and Quaternary Alluvium aquifers are spread in limited areas. Archean aquifers are limited and have less significance in the area.

ARCHEAN

Achaeans, which comprise granites, granitic gneisses and schists, occur in Umarkhed taluka. These rocks as such have limited ground water potential. In these rocks only weathered portions and jointed zones possess water-bearing capacity and ground water occurs under unconfined condition in the area.

VINDHYAN

In Vindhyan, Limestone's are water bearing formation while Sandstone, due to their hard and compact nature, have poor ground water potential and occur in southeastern peripheral parts of Wani taluka. The Limestone's as such are massive but wherever they are cavernous they are capable of holding water. The ground water occurs under unconfined condition in the area.

GONDWANA

The Gondwana consists of Kamthi and Barakar Sandstone and Shale and occupy north-south extending elongated stretch in parts of Maregaon and Wani talukas. Sandstone is usually friable and possesses primary porosity due to its granular nature. They are most productive water bearing formations in the district. The ground water occurs under semi confined to confined conditions in the area and water bearing zones have been encountered down to depth of 470 m.

DECCAN TRAP BASALT

Deccan Trap Basalt is widely spread and forms important water bearing formation, which occupies almost entire district except south eastern part. On the whole, Deccan Trap Basalt exhibits a multi aquifer system. Based on the Litholog of 51 exploratory wells and Piezometers, it is observed that weathered Vesicular Basalt mainly forms the predominant shallow aquifer down to the depth of 20 m bgl. Massive Basalt is also encountered at the top thereby forming poor yielding aquifer and also restricting the ground water recharge to the underlying porous Vesicular Basalt. Fractured Basalt is also observed in certain places with limited to significant thickness. In Deccan Trap Basalt phreatic aquifer generally occurs down to 25 m,

however, fracture zones have occurred within 80 m range except at few places where it occurs down to 158 m also.

ALLUVIUM

Alluvium occurs in patches along the banks of Wardha and Penganga rivers and their major tributaries and consists of clay and silt with lenticular bodies of sand and gravel. In Ralegaon area, it is observed that sand zones are found in the depth range of 20-25 m bgl, while the top 15-16 m is full of clay and silt. Ground water in Alluvium occurs both under unconfined and 8 semi-confined conditions.

KUMBARKHANI-UG-EXPANSION MINE

WANI NORTH AREA

WESTERN COALFIELDS LTD.

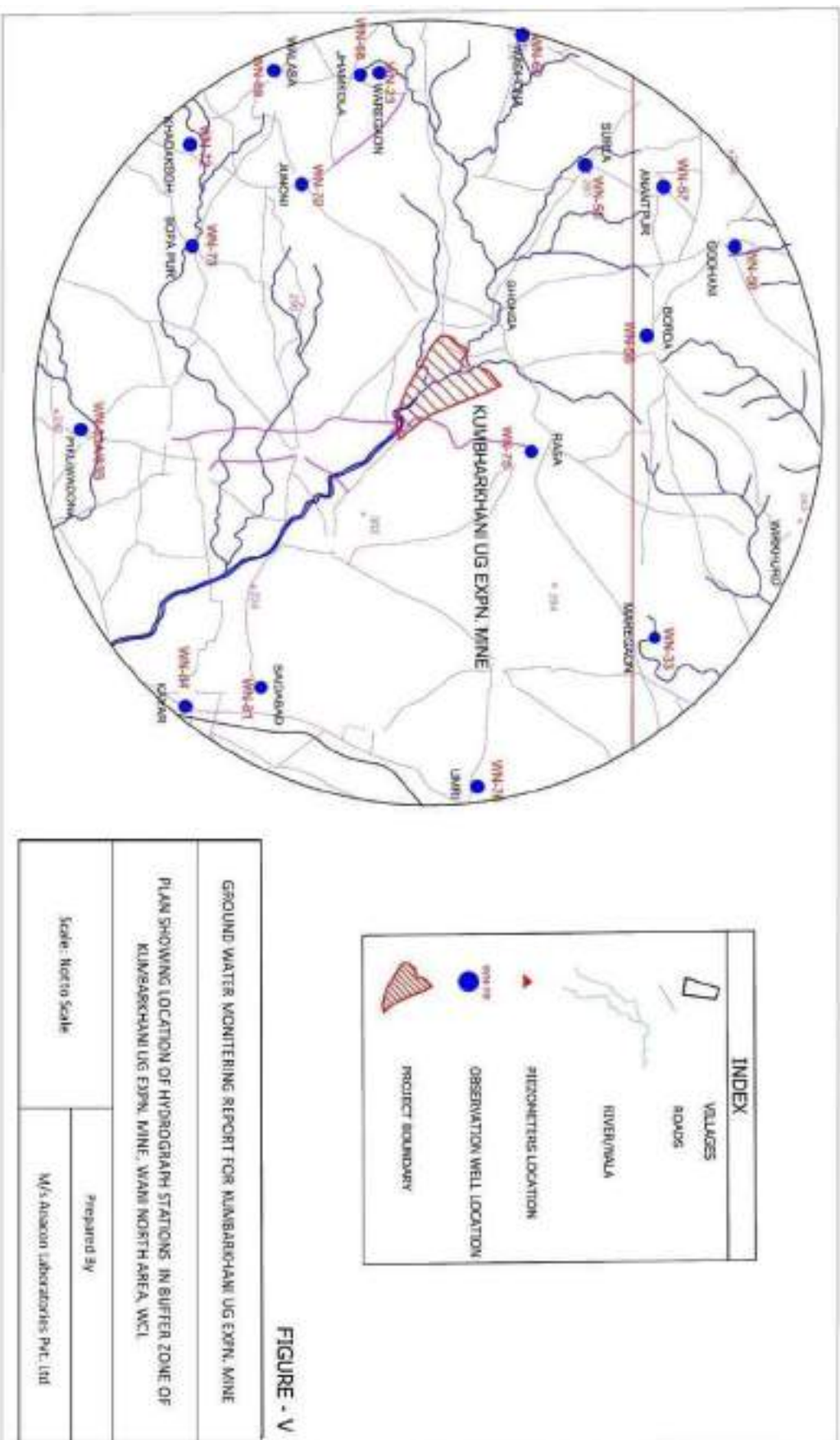
PERIOD- NOVEMBER 2021 TO OCTOBER 2022

Table-VA: Groundwater monitoring data of dug wells in core and buffer zone of Kumbharkhani UG Expansion, Wani North Area, WCL

Well No.	Name of village	Well location	Lat			Long			R.L. (m)	Well dia (m)	Well depth in m bgl	Height of measuring point in m agl	Depth to water level (m bgl)				Utility / Owner	Formation Tapped	Remarks
			Deg	Min	Sec	Deg	Min	Sec					NOV-DEC 2021	JAN-FEB 2022	APRIL MAY 2022	AUG -22			
WN22	Wehegaon	South of village on Wani road	20.00	3.00	25.44	78.00	49.00	44.49	212	3.38	8.39	0.36	6.19	6.23	8.04	4.00	DOMESTIC	SHELLY LIMESTONE	
WN23	Wehegaon	Back side of Vittal Mandir	20.00	3.00	51.60	78.00	49.00	44.02	197	4.57	6.62	0.60	5.25	5.30	6.12	4.25	IRRIGATION	SHELLY LIMESTONE	
WN34	Mohorli	Near Hanuman temple and 60m E of Wani Rd.	20.00	1.00	37.75	78.00	54.00	49.48	199	2.68	6.69	0.42	3.93	3.97	4.92	3.15	IRRIGATION	BASALT	
WN34A	Mohorli 2	Near Hospital	20	1	37.76	78	54	49.47	199	3.20	8.20	0.30	4.2	5.2	6	3.12	IRRIGATION	BASALT	
WN56	Godhani	About 400 m NW o village, adjacent to nala	20.00	1.00	19.86	78.00	48.00	27.30	195	7.40	5.61	0.30	0.61	0.63	2.21	0.6	IRRIGATION	BASALT	
WN57a	Anantpur	About 70 m N of village, adjacent to nala	20.00	0.00	25.56	78.00	47.00	38.06	195	3.17	5.37	0.42	1.16	1.18	3.14	1.52	IRRIGATION	SHELLY LIMESTONE	
WN58a	Borda	About 150 m W of village, 25 m N of Godhani road	20.00	0.00	15.14	78.00	49.00	36.84	212	3.17	7.68	0.70	1.03	1.30	3.36	1.15	DOMESTIC	BASALT	
WN58b	Borda	About 450 m S of village, adjacent to Godhani road(Well of Tulsiram Lole)	20.00	0.00	15.14	78.00	49.00	36.84	215	2.78	6.40	0.76	1.86	1.96	2.15	1.84	DOMESTIC	LIMESTONE	

Well No.	Name of village	Well location	Lat			Long			R.L. (m)	Well dia (m)	Well depth in m bgl	Height of measuring point in m agl	Depth to water level (m bgl)				Utility / Owner	Formation Tapped	Remarks
			Deg	Min	Sec	Deg	Min	Sec					NOV-DEC 2021	JAN-FEB 2022	APRIL MAY 2022	AUG -22			
WN59	Surla	C of village	19.00	59.00	25.68	78.00	47.00	21.93	221	3.29	7.84	0.82	6.16	6.18	7.01	5.52	IRRIGATION	SHELLY LIMESTONE	
WN59A	Surla 2	Near G.P.	19	59	25.70	78	47	21.90	220	2.00	10.00	0.40	5.2	7.5	8	4.36	IRRIGATION	SHELLY LIMESTONE	
WN60	Wadhona	E of village, about 70 m N of road	19.00	58.00	37.36	78.00	45.00	36.39	196	6.13	7.56	0.58	3.59	3.59	5.11	3.12	IRRIGATION	BASALT	
WN68	Jhamkola	200m SE of village near nalla	19.00	56.00	34.33	78.00	46.00	8.78	202	8.53	6.68	0.39	2.2	2.2	4.71	2.22	IRRIGATION	BASALT	
WN69	Walasa	About 800 m N of village in low lying area, 25 m N of Jhamkola road	19.00	55.00	28.60	78.00	46.00	5.57	205	2.44	6.04	0.67	1.92	1.92	3.12	2.12	IRRIGATION	SHELLY LIMESTONE	
WN70	Junoni	About 100 m W of village in the field, about 30 m N of Walasa road	19.00	55.00	50.12	78.00	47.00	37.07	209	3.51	5.27	0.64	2.22	2.25	3	2.11	DOMESTIC	BASALT	
WN72	Khadakdoh	300 m SE of village, 15 m W of Jhari road	19	54	24.99	78	47	5.11	211	7.22	5.64	0.61	3.02	3.35	4.25	2.97	DOMESTIC	BASALT	
WN73	Chinchghat	C of village one well only	19	54	26.87	78	48	27.47	218	4.27	6.98	0.18	4.79	4.9	5.21	3.52	IRRIGATION	SHELLY LIMESTONE	
WN75	Rasa	S edge of village, adjacent to Sakra road	19.00	58.00	45.13	78.00	51.00	13.11	218	4.27	6.98	0.18	3.56	3.84	5.16	3.52	IRRIGATION	SHELLY LIMESTONE	
WN76	Umri	About 150m NW of village near school, adjacent nala	19	58	4.58	78	55	44.11	212	4.36	8.85	0.60	2.54	2.91	6.12	2.27	IRRIGATION	BASALT	

Well No.	Name of village	Well location	Lat			Long			R.L. (m)	Well dia (m)	Well depth in m bgl	Height of measuring point in m agl	Depth to water level (m bgl)				Utility / Owner	Formation Tapped	Remarks
			Deg	Min	Sec	Deg	Min	Sec					NOV- DEC 2021	JAN- FEB 2022	APRIL MAY 2022	AUG -22			
WN76A	Umri 2	G.P.	19	58	4.59	78	55	44.15	112	2.50	10.50	0.40	3.5	5.2	6.1	2.5	IRRIGATION	BASALT	
WN83a	Pilkiwadho na	20 m S of road, C of village Near Hanuman Mandir	19.00	53.00	2.67	78.00	50.00	55.76	207	3.01	8.29	0.55	1.43	1.5	2.96	2.12	DOMESTIC	BASALT	
WN83b	Pilkiwadho na	About 700m N of village adjacent to nalla on W side	19.00	53.00	2.67	78.00	50.00	55.76	208	4.88	7.47	0.76	6.28	6.3	7	5.22	IRRIGATION	SHELLY LIMESTONE	
WN84	Kayar	About 10m E of main road in Railway colony	19.00	54.00	22.37	78.00	54.00	38.87	222	5.02	4.56	0.46	1.52	1.82	3.12	1.54	DOMESTIC	BASALT	
Note :- m.bmp - metre below measuring point, m.agl -metre above ground level, m.bgl - metre below ground level D - Domestic, I - Irrigation, GP - Gram Panchyat, PO- PUMP ON, DCB- Dug cum Borewell, NA- Not Accessible																			



GROUND WATER ANALYSIS

REPORTS



Anacon Laboratories Pvt. Ltd.

Test Report

Anacon Laboratories Pvt. Ltd. Nagpur Lab
 9/FP-34, 35, Food Park, Five Star Industrial Estate,
 MIDC Bulburi, Nagpur, Maharashtra, India - 441 122
 ☎ + 91 8045685568 ✉ Email : info@anacon.in
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Test Report No. : ALPL/05052022/26-1

Dated 05.05.2022

Page 1 of 1

Issued To : Western Coalfields Limited, Nagpur, Patala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ. (M.S.) - 440001		Sample Inward No. Inward Date Reference Letter Inv. No.		ALPL/03052022/W-7/5-1 03.05.2022 Wcl-hq-env-e01-2021 22.Dr.24.07.2021		Analysis Start Analysis End		03.05.2022 05.05.2022	
Sample Name Ground water		Sample Particulars / Details Sample ID: WN-75 [WANI NORTH AREA]			Purpose of analysis Ground Water Quality		Sample Category Water		
Sample Collected By Anacon Lab Representative Mr. Akash Kirmake			Sampling Date Sampling Time		Not Mentioned Not Mentioned		Sampling Location RASA		
Tests Required: Chemical Testing.									

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 3		Test Result
				Acceptable Limit	Permissible Limit #	
I	Chemical Testing 1. Water					
1	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23) : 1986	200	600	144
2	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	1
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) : 1988	350	1000	21.36
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	40.76
5	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	BDL (DL-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	100	6.68
8	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	BDL (DL-2)
9	Odour	-	IS 3025 (Part 5) : 1983	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11) : 1983	6.5 to 8.5	No relaxation	6.78 at 25°C
11	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 1986	200	400	11.85
12	Total dissolved solids	mg/l	IS 3025 (Part 16) : 1984	500	2000	275
13	Turbidity	NTU	IS 3025 (Part 10) : 1984	1	5	0.2
14	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	47.44
II	Chemical Testing 2. Residues in Water					
15	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 1988	0.01	No relaxation	BDL (DL - 0.01)
16	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019 / IS 3025 (Part 55) : 2003	0.03	0.2	BDL (DL - 0.01)
17	Boron (as B)	mg/l	IS 3025 (Part 2) : 2019	0.5	2.4	BDL (DL - 0.01)
18	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	0.05	1.5	BDL (DL - 0.03)
19	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.001)
20	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1.0	No relaxation	BDL (DL - 0.01)
21	Lead (as Pb)	mg/l	IS 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
22	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	0.1	0.3	BDL (DL - 0.05)
23	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	0.02	No relaxation	BDL (DL - 0.01)
24	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL - 0.001)
25	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.03)
26	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.1)

NOTE: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and apply table to tested parameters only.
 • Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-potable and potable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • When table limit is distance of an alternate source for drinking water. • "mg/l" is equivalent to "ppm". • "µg/l" is equivalent to "ppb". • BDL - Below detection limit. • DL - DL indicates detection limit of instrument/method and shall be considered as "absent", failed to establish safety concerns.

REMARKS: • As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012 specification, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

for
 Shubhangi Armarkar
 Technical Manager

Verified By
for
 Shashikant Sasdeve
 Sr. Chemist

Authorized Signatory
for
 Dr. (Mrs.) S.D. Garway
 Quality Manager

-----END OF REPORT-----



Thanks for putting in your faith and trust in our services. We at Anacon Laboratories cherish our relationship. We put in a lot of hard work to ensure that you have a seamless experience at every step of our relationship. In order to ensure that your next experience will be significantly better, we welcome your feedback over email on feedback@anacon.in



Anacon Laboratories Pvt. Ltd.

Test Report

Anacon Laboratories Pvt. Ltd. Nagpur Lab
 9/FP-34, 35, Food Park, Five Star Industrial Estate,
 MIDC Butibori, Nagpur, Maharashtra, India - 441 122
 ☎ + 91 8045685558 ✉ Email : info@anacon.in
 🌐 https://www.anaconlaboratories.com

Test Report No. : ALPL/12052022/21-22

dated 12.05.2022

Page 1 of 2

Issued To : Western Coalfields Limited, Nagpur Patala Road, Coal Estate, Civil Lines, Nagpur. WCL HQ. (M.S.) - 440001		Sample Inward No. ALPL/03052022/W-6/30-22 Inward Date 03.05.2022 Reference wcl-bq-env-e01-2021-22, Dt.-28.07.2021 Inv. No. -	Analysis Start 03.05.2022 Analysis End 12.05.2022 Sample Category Water	
Sample Name Ground Water	Sample Particulars / Details Sample ID – WN-58a, [Wani North Area]		Purpose of Analysis Ground Water Quality	Quantity Received 1L
Sample Collected By Anacon Lab Representative Mr. Mahesh Mahurle		Sampling Date : 22.04.2022 Sampling Time : 12.00pm	Sampling Location Boeda	
Tests Required : Chemical Testing.				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Ground Water Quality Water Specifications) Including Amendment No. 3		Test Result
				Acceptable Limit	Permissible Limit #	
1	Chemical Testing I. Water					
1	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23) : 1986	200	600	184.6
2	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	1
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) : 1988	250	1000	90.53
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	53.9
5	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL - 0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	0.26
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	100	22.91
8	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition; 2017	45	No relaxation	35.7
9	Odour	-	IS 3025 (Part 5) : 1983	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11) : 1983	6.5 to 8.5	No relaxation	7.22 at 25°C
11	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 1986	200	400	12.20
12	Total dissolved solids	mg/l	IS 3025 (Part 16) : 1984	500	2000	483
13	Turbidity	NTU	IS 3025 (Part 10) : 1984	1	5	0.3
14	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	76.81

☐ Please refer last Page for Note and Remarks.

Verified By

 Shubhangi Armarkar
 Technical Manager

Authorized Signatories

Dr. (Mrs.) S.D. Garway
 Quality Manager



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Anacon Laboratories Pvt. Ltd.

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 🌐 https://www.anaconlaboratories.com

Test Report

Test Report No. : ALPL/12052022/21-22

dated 12.05.2022

Page 2 of 2

Issued To : Western Coalfields Limited, Nagpur Futala Road, Coal Estate, Civil Lines, Nagpur. WCL HQ. (M.S.) - 440001		Sample Inward No. ALPL/03052022/W-6/30-22 Inward Date 03.05.2022 Reference wcl-hq-env-e01-2021-22, Dt.-28.07.2021 Inv. No. -		Analysis Start 03.05.2022 Analysis End 12.05.2022 Sample Category Water	
Sample Name Ground Water	Sample Particulars / Details Sample ID – WN-58a, [Wani North Area]			Purpose of Analysis Ground Water Quality	Quantity Received 1L
Sample Collected By Anacon Lab Representative Mr. Mahesh Mahurle			Sampling Date : 22.04.2022 Sampling Time : 12.00pm		Sampling Location Borda
Tests Required : Chemical Testing.					

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Ground Water Quality Water Specifications) Including Amendment No. 3		Test Result
				Acceptable Limit	Permissible Limit #	
II	Chemical Testing					
	2. Residues in Water					
15	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 1988	0.01	No relaxation	BDL (DL - 0.01)
16	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019 / IS 3025 (Part 55): 2003	0.03	0.2	BDL (DL - 0.01)
17	Boron (as B)	mg/l	IS 3025 (Part 2) : 2019	0.5	2.4	BDL (DL - 0.1)
18	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	0.05	1.5	BDL (DL - 0.03)
19	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.001)
20	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1.0	No relaxation	BDL (DL - 0.01)
21	Lead (as Pb)	mg/l	IS 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.001)
22	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019	0.1	0.3	BDL (DL - 0.05)
23	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	0.02	No relaxation	BDL (DL - 0.01)
24	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL - 0.001)
25	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.01)
26	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.1)

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only.
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REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012 Specification, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

[Signature]

Shashikant Satdeve
Sr. Chemist

Authorized Signatory

[Signature]

Dr. (Mrs.) S.D. Garway
Quality Manager

—END OF REPORT—

Thanks for putting in your faith and trust in our services. We at Anacon Laboratories cherish our relationship. We put in a lot of hard work to ensure that you have a seamless experience at every step of our relationship. In order to ensure that your next experience will be significantly better, we welcome your feedback over email on feedback@anacon.in





Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000029027

Submitted Date

29-09-2020

Company Information

Company Name

Western Coalfields Limited, Kumbharkhani
Underground Mine

Application UAN number

-

Address

Office of the Sub Area Manager, Ghonsa Sub Area,
Po. - Ghonsa, Tal.- Wani, Distt. - Yavatmal

Plot no

25/1, 2, 3

Taluka

Wani

Village

Ghonsa

Capital Investment (In lakhs)

4518.31

Scale

L.S.I.

City

Wani

Pincode

445304

Person Name

Satyendrakumar

Designation

Sub Area Manager, GhonsaSub Area

Telephone Number

8668343551

Fax Number

07239241357

Email

samghonsa@gmail.com

Region

SRO-Chandrapur

Industry Category

Red

Industry Type

R35 Mining and ore beneficiation

Last Environmental statement submitted online

yes

Consent Number

BO/JD(APC)/EICNo.CH-1795-16/R/CC-7436

Consent Issue Date

01.06.2016

Consent Valid Upto

31.10.2020

Product Information

Product Name

COAL

Consent Quantity

0.36

Actual Quantity

0

UOM

MT/A

By-product Information

By Product Name

-

Consent Quantity

-

Actual Quantity

-

UOM

Ton/Y

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

1700

Actual Quantity in m3/day

0

Cooling

-

-

Domestic

60

0

All others

-

-

Total

1760

0

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Trade Effluent	1692	-	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Coal (Cubic Meter/Tonnes)	-	-	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives (Kg/Tonnes)	-	-	Kg/Annum

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	-	.575	KL/A

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**[A] Water**

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	-	-	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
-	-	-	-	-	-

HAZARDOUS WASTES**1) From Process**

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	Ton/Y

SOLID WASTES**1) From Process**

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	-	-	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	-	-	Ton/Y

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	-	Ton/Y	-

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	-	Ton/Y	-

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution control measures taken	-	-	-	1654988	-	-

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	-

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
-	-	-

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

Particulars

The mine is not in operation

Name & Designation

Satyendrakumar, Ghonsa Sub Area Manager