केवल नागपुर कोर्ट के अधिकार में

Under Jurisdiction of Nagpur Court Only



उपक्षेत्रिय प्रबन्धक का कार्यालय घोंसा उपक्षेत्र

वेस्टर्न कोलफील्ड्स लिमिटेड

WESTERN COALFIELDS LIMITED

(मिनीरत्न बंपनी) (A Miniraina Company) (कोल इंडिया लि. की अनुषगी कंपनी) (A Subsidiary of Coal India Limited

> Ghonsa Sub Area, Wani North Area

घोंसा उपक्षेत्र, वनी उत्तर क्षेत्र



एक कदम स्वच्छता की ओर

Office of the Sub Area Manager Ghonsa Sub Area.

www.westerncoal.nic.in

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/ 1つるく

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 April 2025 to September 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 April 2025 to September 2025 for your kind information please.

Thanking you Sir.

भवदीय, उपक्षेत्रीय प्रबंधक घोन्सा उपक्षेत्र

प्रतिलिपि:

- 1. क्षेत्रीय महाप्रबन्धक, वणी नार्थ क्षेत्र
- 2. महाप्रबंधक (पर्यावरण/विभागाध्यक्ष), वेस्टर्न कोलफील्ड्स लिमिटेड, मुख्यालय, नागपुर, महाराष्ट्र 440 001
- सेंट्रल पोल्युशन कॉन्ट्रोल बोर्ड, दिल्ली
- 4. क्षेत्रीय अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण बोर्ड, प्रथम तल, उद्योग भवन, स्टेशन रोड, चंद्रपुर, महाराष्ट्र 442 401
- 5. क्षेत्रीय नोडल अधिकारी(पर्या.), वणी नॉर्थ क्षेत्र
- 6. कार्यालय प्रति



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 (E&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 Wani, Dist. Yavatmal, Maharashtra-Environmental Clearance-regarding

Sir,

This has reference to letter No 43011-127-2007-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 05.04.20102009 and letter dated 12.06.2010 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 1.0-12.0m 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 statuette 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 an 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 exiting 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 and tot eh 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

- 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, Ní, 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.

(0)

- (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 contractions 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.
 - 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
- (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)



(xii)

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 tot the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail.
- 3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
- 4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.
- 5. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

(Dr. T.Chandini) Scientist F

Copy to:

- 1. Secretary, Ministry of Coal, New Delhi.
- 2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. 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, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai ? 400002.
- 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. Shri M.K. Shukla, CGM, Coal India Limited, SCOPE Minar, Core-I, 4t 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. &	Letter No.J-11015/1235/07-IA.II(M) dated 26 th July,
Date	2010.
Period of Status Report	From April 2025 to September 2025.
Date of commencement of the project	28/02/2000
Work	

STATUS OF LAND ACQUISITION:-

Type of Land	Required as per	Actual acquired (ha)	Remarks
	EMP (ha)	As on 30.09.2025	
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	Consent is granted by MPCB vide consent no.		
and Control of Pollution) Act.	BO/JD(APC)/EICNo.CH-1795-16/R/CC-7436 dated		
b. Consent under Water (Prevention	01.06.2016, valid upto 31/10/2020. Mine is not		
and Control of Pollution) Act	currently in operation.		
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		ot 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	do		
	(Physical Reclamation)		do	
7.	Area reclaimed biologically (tree	N.A.		
	plantation on backfilled area)			

Production:

Present Capacity: Previous year's production figures are:

Year	Coal Production
	(Tons)
2022-23	Nil
2023-24	Nil
2024-25	Nil
2025-26	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. (1	3000 Nos))	,
No. of plants per Hectare.	:	2500 Nos.	•		
Species planted up to date	:	Ashoka,	Cassia,	Karan	nj Ber
	1 33	Subabul,	Cassia,	Nea,	Amala,
		Khair, Tea	ak, Shivan	eta	

Rehabilitation and Resettlement:-

S. N. **Particulars**

Status

- 1. No. of land oustees
- 17
- 2. No. of land outstees rehabilited
- : All the land oustees are provided employment OR monitory compensation as per company norms
- No. of PAPs/PAFs to be 3.
- : NA

- resettled
- No. of PAPs/PAFs resettled 4.
- NA
- 5. Area of new site (ha)
- NA
- 6. Status of development
- NA
- 7. Civic amenities provided at
- : NA

new

ORGANIZATIONAL SET UP AT PROJECT LEVEL :-

Name and designation of the persons to be given:

- (1) Shri H. B. Das, SAM, Ghonsa Sub Area
- (2) Shri Rupesh Kokarde, Mine Manager, Kumbharkhani UGM
- (3) Shri Nharpanjay Gupta, NO(Environment)/SAE(C), Ghonsa Sub Area

(C)/N.O. (Env.)

Ghonsa Sub Area

Kumbharkhani UG

Sub Area Manager Ghonsa Sub Area

EXPENDITURE STATEMENT

CAPITAL HEAD:-

(Rs. in Lakhs)

Account Head	Current Period	Progressive up to 30' Sept'2025
Air Pollution Control	-	12.04
Dust Suppression Work		
(Providing Rain Guns including	•	
pipe line)		п
Others (Sedimentation tank,		. 30.14
drain, katcha pond)		,
TOTAL		42.18

REVENUE HEAD:-

(Rs. in Lakhs)

Account Head	Current Period	Progressive up to 30' Sept'2025
Afforestation ,		6.78
Monitoring (MPCB Analysis and	-	13.37
Consent Fees of KKUG		•
expansion)		
Legal Expenses (Water Cess &		0.37
Environment Statement)		
Others (Sweeping & Brooming of		28.36
road, cleaning of mine water		
sedimentation tank)	1	
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 April 2025 to September 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:-

A.	A. Special Conditions:-				
Sr.	Conditions	Compliance			
No.					
i)	No mining shall be undertaken below	Agreed			
	33.43 ha of forestland until forestry				
	clearance has been obtained for mining				
	rights.				
ii)	No forestland shall be diverted for surface	Agreed			
	structures.				
iii)	Regular monitoring of subsidence	Agreed			
	movement on the surface over and around	All conditions laid down by DGMS will be			
	the working area and impact on natural	followed so as to prevent any adverse			
	drainage patter, water bodies, vegetation,	effect of subsidence			
	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.	· Cilliana di sa montho			
iv)	Mining shall be carried out as per statuette	All the norms has been followed as per the			
	at a safe distance from the river/nallah	environmental conditions given by EC			
	flowing adjacent to the lease boundary.	G. 1			
v)	High root density tree species shall be	Such types of plant are planted over the			
	selected and planted over areas likely to	affected area.			
	be affected by subsidence.	Till HG sine is being mys following the			
vi)	Coal Extraction shall also be optimized in	This UG mine is being run following the			
	areas where agricultural production is	statues like viz. coal mines regulations			
	continuing. Some pillars shall be left	1957 mines act 1952 and other related			
	below the agricultural land. No coal	acts/rules As per the statutes all the specific			
	depillaring shall be <u>undertaken</u> below	safety requirement with special reference			
	areas of habitation.	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	Noted and agreed. It will be followed.			
	if subsidence is found exceeding the				

-		
	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
	What a maintain a section about he marrided	will be taken up before starting depillaring. Fixed water sprinkler (Rain guns) had been
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.	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	Currently the mine is not in operation.
	Ministry of Environment, Forests & climate change and the Central Pollution	

	1	Control Board quarterly within one month	
1		of monitoring.	,
ŀ	xii)	The Company of H	
	All)	The Company shall put up artificial groundwater recharge measures 6	Rain water harvesting measures have
			already been taken with due consultation
		augmentation of groundwater resource in	with the several willow D.
		case monitoring indicates a decline in	through do silting/ domaning of :
		water table. The project authorities shall	nond in the following villages:
		meet water requirement of nearby	
		village(s) in case the village wells go dry	In July 2015, deepening of pond at Rasa
		due to dewatering of mine.	and Kumbharkhani village has been done
			for ground water recharge.
			for ground water recharge.
			A4 17
		4	At Kumbharkhani Village pond:
•			Deepening size: (65m x 40.m x 1.08m)
			Expenditure: 4.21 Lakh
		• **	A4 D - Will I
			At. Rasa Village pond:
		•	Deepening size: a. (50m x 50m x 0.60)
1			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
+		D 11	village. (approximately)
	xiii)	Besides carrying out regular periodic	
			checkup of workers are regularly done in
		the workers identified from workforce	WCL hospital.
ı		engaged in active mining operations shall	Currently the mine is not in operation and
		be subjected to health checkup for	entire man power had been shifted to other
		occupational diseases and hearing	projects.
		impairment, if any through an agency	
		such as NIOH, Ahmedabad within a	
		period of one year and the results reported	
L		to this Ministry and to DGMS.	
	xiv)	Activities under CSR undertaken for the	As per CSR policy of Coal India Limited
		neighbouring villages shall be for not less	Rs. 2/tonne of coal produced or 2% of
		than Rs. 5 per tonne of coal and the	profit whichever is more is spent on CSR
		progress made thereon shall be uploaded	works.
		on the company annually on the company	
L		website.	
	xv)	A Final Mine Closure Plan along with	Progressive Mine closure plan has been
		details of Corpus Fund shall be submitted	prepared and duly approved by WCL
		to the Ministry of Environment & Forests	Board.
		5 years in advance of final mine closure	The corpus fund has been deposited in
		for approval.`	escrow account
L			· .

B. General Conditions:-

-	Sr.	Conditions	
1	No.		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 slope has been made
	ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Noted. Year Coal Production (Tons) 2022-23 Nil 2023-24 Nil 2024-25 Nil 2025-26 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

	1	
	dustrial wastewater (workshop and	Currently the mine is not in operation.
	Industrial wastewater (workshop and wastewater from the mine) shall be properly	Hence there is no discharge.
	collected, treated so as to conform to the	
/	standards prescribed under GSR 422 (E)	,
/	dated 19th May 1993 and 31st December	8
	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
vii)	Vehicular emissions shall be kept under	
	control and regularly monitored. Vehicles used for transporting the mineral shall be	
	covered with tarpaulins and optimally	1
1.	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.	in a paration right now
ix)	Personnel working in dusty areas shall	The mine is not in operation right now Entire man power had been shifted to
	wear protective respiratory devices and	other project.
*	they shall also be provided with adequate	omer project.
	training and information on safety and health aspects.	
1.	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.	
		At unit level Environmental Management
x)	A separate environmental management cell with suitable qualified personnel shall be	At unit level Environmental Management Cell is headed by Nodal Officer
	set up under the control of a Senior	(Environment) who reports to Sub Area
•	Executive, who will report directly to the	Manager. At area level Environmental
	Head of the company.	Management Cell is headed by Area
		Nodal Officer (Env.) and assisted by Asst.
		Manager (Env.) who report to Area
	- 31	General Manager. At company level
•		Environmental Management Cell is

	The funds earmarked for environmental	headed by General Manager (Environment)/HOD assisted by qualified and experienced environmental engineers who directly report to the Director (Project & Planning), WCL. Funds earmarked for environmental
xi)	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.	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	Clearance for 0.60 MPTA expansion has been accorded to has been advertised in two local news papers:
	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.	(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.	A copy of environmental elements
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	d Link for EC letter:
/	at least once every six months so as to	o https://westerncoar.m/mdex1.pmp/stationa
1	bring the same in public domain. The	e ge/154
	monitoring data of environmental	.1 '
	quality parameter (air, water, noise and	t
	soil) and critical pollutant such as PM ₁₀ ,	
	PM _{2.5} SO ₂ and NO _x (ambient) and critical	
	sectoral parameters shall also be	
	displayed at the entrance of the project	t
		1
100	premises and mine office	s
	corporate office and	
	website.	Complied.
· xvi)	The project proponent shall submit six	l'anno reports are bellig
•	monthly compliance reports on status of	Six monthly con-p
9	compliance of the stipulated environmental	sent regularly to con-
	clearance conditions (both in hard copy and	
	in e-mail) to the respective Regional	
	Office of the Ministry, respective Zonai	
	Offices of CPCB and the SPCB.	arrations will be
27711) The Regional Office of this Ministry	All necessary co-operations
xvii)	the Region Shall moment	extended to Regional Office, Webs.
3)	liance 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.	1
	Environmental statement for each	Environmental Statement for each
xviii	financial year ending 31 March in Form-	financial year ending 31st March in Form -
	V is mandated to be submitted by the	V is being submitted online on webportal of Maharashtra Pollution Control Board.
	project proponent for the concerned State	of Maharashtra Politilon Condo.
	Pollution Control Board as prescribed	Environmental Statement-Form V for
	under the Environment (Protection) Rules, 1986, as amended subsequently, shall also	2019-20 has been submitted on online
	be uploaded on the company's website	portal of MPCB dated 29.09.2020
	along with the status of compliance of EC	
	conditions and shall be sent to the	Currently the mine is not in operation
	respective Regional Offices of the	
	MoEF&CC by e-mail.	
3	THE WITHSELF OF WALL	Noted.
	authority may stipulate any further condition	
	for environmental protection.	
4	Tandre to comply	Noted.
	mentioned above may result in withdrawal	•
	of this clearance and attract action under the	
	provisions of Environment (Protection) Act,	
	1986.	, =
5	The above conditions will be enforced inter-	Noted.
, ,	alia, under the provisions of the Water	Noted.
	alia, under the pro-	

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

Mine Manager Kumbharkhani UG Mine

Sub Area Manager Ghonsa Sub Area

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

ENVIRONMENTAL MONITORING REPORT

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 Re					
TEST REPORT NO.			RIN/TR/APR-	22/45		DATE OF ISS	JF	31.05.2022	
NAME OF CUSTOMER				GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER RE	FERENCE	NO.	WCL/ HQ/ Environment/ 14-I/206-220 , Dt. 25.03.2022						
TEST REQUIRED	1	document	•), PM-10: IS-518 t-II)-2.12:2016,		, ,,		Quality Assurance 5182 Part-	
NAME OF AREA	NAME OF AREA			l		SAMPLING	PLAN : LQR 47		
NAME OF PROJECT		KUMBARKHANI UG					•		
SAMPLE DESCRIPTION Air sample									
SAMPLING METHOD :	LSOP 4								

PROJECT MANAGER OFFICE WNKUA1								
DATE/dd/mmm.n.n) OF CAMPLING		PARAMETERS (24 hourly va	lues in μg/m	3)	ENVIRONMENT	
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	5	5	2	6	10	(Sky/Wind)		
10.04.2022	10.04.2022 11.04.2022		173	63	26	14	Clear Sky / Lightbreeze	
22.04.2022	22.04.2022 23.04.2022		150	56	18	12	Clear Sky / Calm	
STANDARDS FOR COA	600	300	-	120	120			

SAM OFFICE/ CANTEEN WNKUA2								
DATE(dd:mm:yy) OE SAMBLING		PARAMETERS (24 hourly va	lues in µg/m	3)	ENVIRONMENT	
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	5	5	2	6	10	(Sky/Wind)		
10.04.2022	10.04.2022 11.04.2022		150	62	24	16	Clear Sky / Lightbreeze	
22.04.2022	22.04.2022 23.04.2022		148	54	22	14	Clear Sky / Calm	
STANDARDS FOR COA	600	300	-	120	120			

GUEST HOUSE/ COLONY WNKUA3								
DATE/ddamman	OF CAMPLING		PARAMETERS (24 hourly values in μg/m³)					
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	FROM TO			2	6	10	(Sky/Wind)	
10.04.2022	10.04.2022 11.04.2022		62	35	16	10	Clear Sky / Lightbreeze	
22.04.2022 23.04.2022		128	68	38	14	BDL	Clear Sky / Calm	
NAAQS	-	100	60	80	80			

GHONSA VILLAGE WNGOA3								
DATE/dd.mm.u.u		PARAMETERS (24 hourly values in μg/m³)						
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS	
FROM	FROM TO		5	2	6	10	(Sky/Wind)	
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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2 This report refers to the values related to the items tested.

CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	FAN HOUSE:	WNKUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	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
	ON (REGULATION AND TROL) RULES	75	70

	COLONY:	WNKUN2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	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	
	ON (REGULATION AND TROL) RULES	55	45	

CMPDI RI-IV, NAGPUR 3 of 3

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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



TECT DEPORT NO			DINI /TD /NAAV	 				
TEST REPORT NO.			RIN/TR/MAY	•		DATE OF ISSUE	25-06-2022	
NAME OF CUSTOME	:R		GM(ENV.), W	CL(HQ), NAGPU	JR			
CUSTOMER LETTER	REFERENCE	NO.	WCL/ HQ/ En	vironment/ 14	-I/206-220 <i>,</i> I	Ot. 25.03.2022		
TEST REQUIRED	guidance	IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance ance document volume-II (part-II)-2.12:2016, NO $_2$: IS 5182 Part-06:2006(2017), SO $_2$:IS 5182 Part-01(RA 2017)						
NAME OF AREA			WANI NORTH	1		SAMPLING PLAN : LQ	R 47	
NAME OF PROJECT			KUMBARKHANI UG					
SAMPLE DESCRIPTION Air sample				•				
SAMPLING METHOD : LSOP 4				_				

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

r							
SAM OFFICE/ CANTEEN WNKUA2							
DATE(dd:mm:yv	1	PARAMETERS (24 hourly va	lues in μg/m	3)	ENVIRONMENT	
DATE(dd:mm:yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS
FROM	то	5	5	2	6	10	(Sky/Wind)
13-05-2022	14-05-2022	234	146	60	24	18	Cloudy Sky / M.Breeze
23-05-2022	23-05-2022 24-05-2022		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									
			PARAMETERS (24 hourly va	lues in μg/m	1 ³) ENVIRONME			
DATE(dd:mm:yy	/) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS			
FROM	то	5	5	2	6	10	(Sky/Wind)		
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		
NAAQ:	S, 2009	-	100	60	80	80			

GHONSA VILLAGE WNGOA3							
DATE/dd.mom.us.	OF CANADUMC		ENVIRONMENT				
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS	
FROM	то	5	5	2	6	10	(Sky/Wind)
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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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	FAN HOUSE: WNKUN1							
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)						
MONTH	COLLECTION	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					
	ON (REGULATION AND TROL) RULES	75	70					

	COLONY:	WNKUN2		
DATE OF SAMPLE NOISE LEVEL II			dB(A)	
MONTH	COLLECTION	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	
	ON (REGULATION AND TROL) RULES	55	45	

CMPDI RI-IV, NAGPUR 3 of 3

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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



TEST REPORT NO.		RIN/TR/JUN-22/45 DATE OF ISSU		UE	28.07.2022		
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER RI	EFERENCE NO.	WCL/HQ/ENV/14-I/206-220	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022				
SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 guidance document volume-II (part-II)-2.12:2016, N 2:2001(RA 2017)				, ,,		. ,	
NAME OF AREA	•	WANI NORTH		SAMPLING	PLAN : LQR 47		

NAME OF AREA WANI NORTH
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 va	lues in μg/m	³)	ENVIRONMENT	
DATE(da:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	то	5	5	2	6	10	(Sky/Wind)	
08.06.2022	09.06.2022	258	162	62	20	14	Cloudy Sky / Windy	
23.06.2022	23.06.2022 24.06.2022		168	64	24	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 va	lues in µg/m	3)	ENVIRONMENT	
DATE(du:min:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS		
FROM	ТО	5	5	2	6	10	(Sky/Wind)	
08.06.2022	09.06.2022	230	142	56	22	16	Cloudy Sky / Windy	
23.06.2022	23.06.2022 24.06.2022		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/ddamman) OF CANADLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT	
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS		
FROM	то	5	5	2	6	10	(Sky/Wind)	
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.u.u	OF CANADUMC	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS	
FROM	то	5	5	2	6	10	(Sky/Wind)
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		

AND,

Analysed by

Deepanshu sahu Reviewed & Authorised By

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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	FAN HOUSE: WNKUN1							
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)						
MONTH	COLLECTION	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					
	ION (REGULATION AND TROL) RULES	75	70					

	COLONY:	WNKUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
	ON (REGULATION AND TROL) RULES	55	45		

CMPDI RI-IV, NAGPUR 3 of 3

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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



TEST REPORT NO.		RIN/TR/JULY-22/45 DATE OF ISSU		UE	30.08.2022		
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
CUSTOMER LETTER REFERENCE NO. WCL/HQ/ENV/14-I/20			DATED: 25.03	3.2022			
		1999(RA 2019), PM-10: IS-518 volume-II (part-II)-2.12:2016,		, ,,			
NAME OF AREA		WANI NORTH		SAMPLING	PLAN : LQR 47		

NAME OF AREA WANI NORTH SAM
NAME OF PROJECT KUMBARKHANI UG

SAMPLE DESCRIPTION Air sample

SAMPLING METHOD: LSOP 4

	PROJECT MANAGER OFFICE WNKUA1									
DATE/dd.mom.u.u		PARAMETERS (24 hourly values in μg/m³)								
DATE(dd:mm:yy) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS					
FROM	то	5	5	2	6	10	(Sky/Wind)			
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			300	-	120	120				

	SAM OFFICE/ CANTEEN WNKUA2									
DATE/ddummuu	DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly va	lues in µg/m	3)	ENVIRONMENT			
DATE(du:min:yy) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			CONDITIONS					
FROM	то	5	5	2	6	10	(Sky/Wind)			
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 COA	600	300	-	120	120					

	GUEST HOUSE/ COLONY WNKUA3									
DATE/ddamman	24 hourly va	lues in µg/m	ENVIRONMENT							
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂							
FROM	то	5	5 5 2 6 10							
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	9 - 100 60 80 80			80					

	GHONSA VILLAGE WNGOA3									
DATE/dd.mm.u.u) OF CANADUMC		ENVIRONMENT							
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂							
FROM	то	5	5 5 2 6 10							
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	5, 2009	- 100		.00 60 80 80		80				

San.

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CMPDI RI-IV, NAGPUR 2 of 3

NOISE LEVEL MONITORING DATA

	FAN HOUSE:	WNKUN1			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	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		
	ION (REGULATION AND TROL) RULES	75	70		

	COLONY:	WNKUN2	
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	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
	ON (REGULATION AND TROL) RULES	55	45

CMPDI RI-IV, NAGPUR 3 of 3

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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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/AUG-22/26 DATE OF ISSU			JE	30.09.2022
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR				
TIEGI DEMINDEN		4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance docum 2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)				=
SAMPLE DESCRIPTION		AIR SAMPLE SAME			NG PLAN :	LQR 47
SAMPLING METHOD:	LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:				15/07/22 TO 13/08/22

		PROJECT MA	NAGER OFFICE	WNKUA1				
DATE(dd:mm:yy) OF CAMPLING		³)	ENVIRONMENT CONDITIONS				
DATE(dd:min:yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)	
FROM	то	5	5	2	6	10	(Sky/Wind)	
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) OE SAMBLING	ENVIRONMENT CONDITIONS									
DATE(dd.iiiii.yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)				
FROM	то	5	5	2	6	10	(Sky/Wind)				
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	A OF CAMPUNIC		PARAMETERS (ENVIRONMENT CONDITIONS							
DATE(da:mm:y)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂ ENVIRONMENT CONDI					
FROM	TO	5	5	2	6	10	(Sky/Willd)				
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				
NAAQ:	S, 2009	-	100	60	80	80					

GHONSA VILLAGE WNGOA3									
DATE/dd.momo.u.u	A OF CAMPUNIC		PARAMETERS (24 hourly va	ENVIRONMENT CONDITIONS				
DATE(da:mm:y)) OF SAMPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	то	5	5	2	6	10	(Sky/Willd)		
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			



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ENVIRONMENTAL MONITORING REPORT

KUMBARKHANI UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4634420034

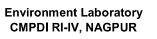


SEP - 2022

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Test Report



TEST REPORT NO.		RIN/TR/SEP-22/26	DATE OF ISSUE		28.10.2022			
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR						
ITEST 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 REPORT : KUMBARKHANI UG

	PROJECT MANAGER OFFICE WNKUA1										
DATE(dd:mm:yy		PARAMETERS (24 hourly va	ENVIRONMENT CONDITIONS							
DATE(dd:min:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)					
FROM	то	5	5	2	6	10	(Sky/Willa)				
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	ı	PARAMETERS (24 hourly va	ENVIRONMENT CONDITIONS					
DATE(dd:IIIII:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)			
FROM	то	5	5	2	6	10	(Sky/Willa)		
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	A OF CAMPUNIC		PARAMETERS (24 hourly va	ENLARGONINGENIT CONDITIONS				
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5} NO ₂ SO ₂		ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	(Sky/Willd)		
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.me.me.u.u	4 OF CAMPLING		PARAMETERS (24 hourly va	ENVIRONMENT CONDITIONS				
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	PM _{2.5} NO ₂ SO ₂		ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	то	5	5	2	6	10	(Sky/Willa)		
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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report Ambient Air quality monitoring data for heavy metals



TC-7102

TEST REPORT NO.	RIN/TR/JUNE	/HM74		DATE OF ISSUE	27-08-2022
NAME OF CUSTOMER	GM(ENV.),W	CL(HQ), NAGPU	R	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFE	RENCE NO.	WCL/HQ/ENV/	/14-I/206-220 DATED: 25	5.03.2022	
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	1
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	Detection		National Ambient Air Quality		
31. 140.	T di diffictei	analysis	limit	WNKUA-1	WNKUA-2	WNKUA-3	Standard NAAQS, 2009
1	Arsenic, µg/m ³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	0.006 μg/m ³ (Annual average)
2	Lead, μg/m3	IS 5182 PART 22	0.007 µg/m3	BDL	BDL	BDL	1.0 µg/m ³ (24 Hourly average)
3	Nickle, µg/m ³	ASTM D 4185	0.007 μg/m ³	BDL	BDL	BDL	0.02 μg/m3 (Annual average)
4	Total Chromium, µg/m³	ASTM D 4185	0.0045 μg/m ³	BDL	BDL	BDL	**
5	Cadmium	ASTM D 4185	0.0015 μg/m ³	BDL	BDL	BDL	**

BDL: BELOW DETECTION LIMIT

Teatible

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU AUTHORIZED SIGNATORY

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- 3 ** This parameter not regulated as per NAAQS

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REPORT ON

MONITORING OF GROUND WATER LEVEL AND GROUND WATER QUALITY ANALYSIS FOR COAL MINES OF WCL

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

Lab. & Consultancy: FP-34, 35, Food Park, MIDC, Butibori, Nagpur – 441122 Mob: +91-9372960077

Email: ngp@anacon.in

Website: <u>www.anaconlaboratories.com</u> 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.

Horby

Sangharakshit. N. Borkar (Geologist)

Gyanchand Bohra

NABET Accredited EIA Expert for Hydrogeology & Geology

Nagpur.

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

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TAB	LE	NAME OF SUB MINE	GROUND WATER MONITORING DETAILS OF WELL	No.
		PROJECT		
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			NOVEMBER 2021 TO OCTOBER 2022	
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			NOVEMBER 2021 TO OCTOBER 2022	

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	OBSERVATION WELLS IN AND AROUND OF OC RAJUR UG

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 Vindhyans, 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.

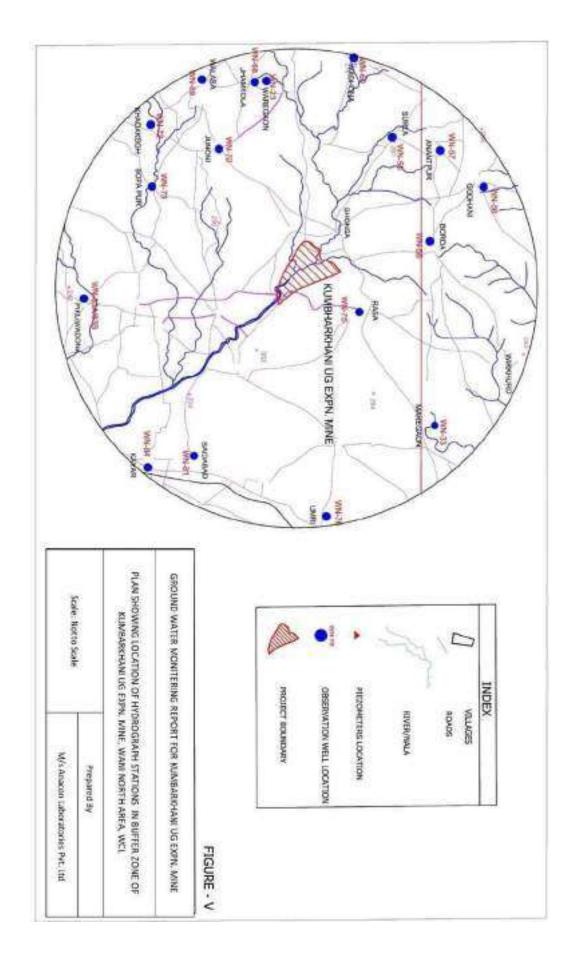
PERIOD- NOVEMBER 2021 TO OCTOBER 2022

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

		ı ——		Lat			Long			Well	Well	Height	Depth	to wate	Depth to water level (m bgl)	n bgl)			
Name of Well location Deg Min Sec I	Well location Deg Min Sec	Min Sec	Sec			Deg	Min	Sec	R.L. (m)	dia (m)	depth in m bgl	measuri ng point in m agl	NOV- DEC 2021	JAN- FEB 2022	APRIL MAY 2022	AUG -22	Utility / Owner	Formation Tapped	Remarks
Wehegaon South of village on Wani road 20.0 3.00 25.44 78	South of village 20.0 3.00 25.44 on Wani road 0	3.00 25.44	25.44		78	78.00	49.00	44.49	212	3.38	8.39	0.36	6.19	6.23	8.04	4.00	DOMESTIC	SHELLY LIMESTONE	
Wehegaon Back side of Vittal Mandir 20.0 0 0 3.00 0 51.60 0 78.00 0	Back side of 20.0 3.00 51.60 Vittal Mandir 0	3.00 51.60	51.60		78.		49.00	44.02	197	4.57	6.62	09:0	5.25	5.30	6.12	4.25	IRRIGATION	SHELLY	
Mohorli temple and 60m E of Wani 20.0 0 1.00 37.75 78.00 Rd. <	n E of Wani 0 1.00 37.75	1.00 37.75	37.75		78.	8	54.00	49.48	199	2.68	69.9	0.42	3.93	3.97	4.92	3.15	IRRIGATION	BASALT	
Mohorli 2 Near Hospital 20 1 37.76 78	Near Hospital 20 1 37.76	1 37.76	37.76		78		54	49.47	199	3.20	8.20	0.30	4.2	5.2	9	3.12	IRRIGATION	BASALT	
Godhani About 400 m adjacent to nala 20.0 0 1.00 19.86 78.00	20.0 1.00 19.86	1.00 19.86	19.86		78.00		48.00	27.30	195	7.40	5.61	0.30	0.61	0.63	2.21	9.0	IRRIGATION	BASALT	
About 70 m N 20.0 0.00 25.56 78.00 Anantpur adjacent to nala 0 0 25.56 78.00	m N 20.0 0.00 25.56	0.00 25.56	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	
Borda About 150 m W of village, 25 m N of Godhani 20.0 0 0.00 15.14 78.00	20.0 0.00 15.14 0	0.00 15.14	15.14		78.0		49.00	36.84	212	3.17	7.68	0.70	1.03	1.30	3.36	1.15	DOMESTIC	BASALT	
Borda About 450 m S of village, adjacent to Godhani road(0 Well of Tulsiram Lole) 20.0 0.00 (0.00 15.14) 78.00 (78.00 18.00)	n S 20.0 0.00 15.14 le)	0.00 15.14	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	

				Lat			Long			IIV	Well	Height	Depth	to wate	Depth to water level (m bgl)	n bgl)			
Well No.	Name of village	Well location	Deg	Min	Sec	Deg	Min	Sec	R.L. (m)	dia (m)	depth in m bgl	or measuri ng point in m agl	NOV- DEC 2021	JAN- FEB 2022	APRIL MAY 2022	AUG -22	Utility / Owner	Formation Tapped	Remarks
WN59	Surla	C of village	19.0 0	29.00	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	29	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	19.0 0	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	19.0 0	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	19.0	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	19.0 0	55.00	50.12	78.00	47.00	37.07	209	3.51	5.27	0.64	2.22	2.25	ю	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	19.0	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	
WN76	Umri	About 150m NW of village near school, adjacent nala	19	58	4.58	78	55	44.11	212	4.36	8.85	09:0	2.54	2.91	6.12	2.27	IRRIGATION	BASALT	

				Lat			Long			Woll.	Well	Height	Depth	to wate	Depth to water level (m bgl)	(lgq ı			
Well No.	Name of village	Well location	Deg	Min	Sec	Deg	Min	Sec	R.L. (m)	dia (m)	depth in m bgl	measuri ng point in m agl	NOV- DEC 2021	JAN- FEB 2022	APRIL MAY 2022	AUG -22	Utility / Owner	Formation Tapped	Remarks
WN76A	Umri 2	G.P.	19	58	4.59	2/8	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	19.0	53.00 2.67	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	19.0	53.00 2.67	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	Aout 10m E of main road in Railway colony	19.0 0	54.00	54.00 22.37 78.00	78.00	54.00	54.00 38.87 222	222	5.02	4.56	0.46	1.52	1.82 3.12	3.12	1.54	DOMESTIC	BASALT	
Note	m.bmp - m	Note :- m.bmp - metre below measuring point, m.agl -metre above ground level, m.bgl - metre below ground level PUMP ON, DCB- Dug cum Borewell, NA- Not Accessible	uring p	oint, m	.agl -m	etre abo PUMP	ve grou	and leve CB- Dug	el, m.b cum l	gl - meti 3orewell	re below , NA- No	ve ground level, m.bgl - metre below ground leve ON, DCB- Dug cum Borewell, NA- Not Accessible		- Dom	estic,	I - Irrig	gation , GP - G	D - Domestic, I - Irrigation, GP - Gram Panchyat, PO-	ıt, PO-



GROUND WATER ANALYSIS REPORTS



Anacon Laboratories Pvt. Ltd.

Anacon Laboratories Pvt. Ltd. Nagpur Lab

♥ 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

Test Report No. ; ALPL/05052022/26 Issued To ; Wester's Coallields Limited, Nagpur Famin Road, Coal Estate, Civil Lines, Nagpur, WCL HQ. (M.S.) – 440001	Sample In Inward II Reference	late	02 ALPL/03052002/W- qs:us:2022 Wel-hq-env-e01-202 22:Dx:28:07:2021		Analysis Start Analysis End	Page 1 of 1 03.05.2022 05.05.2022 Water
Sample Name Ground water	1. FOR DESIGNATION OF THE PROPERTY OF THE PROP	Particulars / Deta -75 [WANI NORTI	Section of the sectio	Value of the Control	Sample Category se of analysis Water Quality	Quantity Received
Sample Collected By Anacon Lab Representative Mr. Akasi		Sampling Date Sampling Time	Not Mestioned Not Mestioned		Sam	pling Location RASA

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking War Including Ar	ment as per 800 : 2012 (er Specifications) mendment No. 3	Test Result
*	Mention viscos especialists			Acceptable Limit	Permissible Limit #	
T	Chemical Testing 1. Water			00-10-10-1		1000
1	Alkalinity (as CaCO ₁)	mg/l	15 3025 (Part 23): 1986	200	600	144
2	Colour	Hazen units	IS 3025 (Furt 4) : 2021	3	15	1
3	Chloride (as CI)	mg/l	IS 3025 (Part 32):1988	250	1000	21.36
4	Calcium (as Ca)	mg/l	15 3025 (Part 40): 1991	75	200	40.76
5	Free residual chlorine	mgd	1S 3025 (Part 26) : 2021	Min. 0.2	1	BEX. (DX-0.15
.6	Fluoride (as F)	mg1	1S 3025 (Part 60) : 2008	1.0	1.5	BEX. (DL-0.1)
7	Magnesium (as Mg)	mg/t	TS 3025 (Part 46): 1994	30	100	5.68
.8:	Nitrate (as NO ₄)	mg/t	APHA method 23rd edition: 2017	45	No relaxation	BDL (DL-2)
9	Odour		1S 3025 (Part 5): 1983:	Agreeable	Agreeable	Agreeable
10	ρH		15/3025 (Part 11): 1983	6.5 to 8.5	No relesation -	6.78 at 25°C
11	Sulphate (as SO ₄)	fgm	IS 3025 (Part 24) : 1986	200	400	11.85
12	Total disselved solids	mgf	18 3025 (Part 16) : 1984	500	2000	275
13	Turbidity	NTU	IS 3025 (Part 10) : 1984		3	0.2
14	Total handness (as CaCO ₁)	lqm l	IS 3025 (Part 21): 2009	200	600	47.44
11	Chemical Yesting 2. Residues In	Water		- 50 SX		100 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15	Arsenic (as Asi)	fam	IS 3025 (Part 37): 1988	0.01	No relaxation	BDL (DL - 9.01)
16	Altuninium (as Al)	rgm r	18 3025 (Part 2): 2019 / 18 3025 (Part 55): 2003	0.03	0.2	BDL (DL - 0.01)
12	Boron (as H)	Tum 1	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.01)
18	Copper (as Cu)	Fgm	IS 3025 (Part 2): 2019	0.05	1.5	BOL (DL - 0.03)
19	Cadmium (as Cd)	figm .	IS 3025 (Part 2) 1019	0.003	No refundation	BDL (DL - 0.00)
20	Iron (as Fe)	Part -	(5-3025 (Part 2) : 2019	1.0	No relegation	BDL (DL = 0.01)
21	Leaf (as Pb)	light .	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL + 0.001
22	Mangianese (ss Mn)	mpli	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05
23	Nickel (m Ni)	ng/i	IS 3025 (Part 2): 2019	0.02	No relactation	BD1, (DL - 9.01)
24	Selenium (as Se)	mg/i	IS 3625 (Part 56): 2003	0.01	No relaxation	BDL (DL-0.00)
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: * Preserve excitations: "Disjoint Test Report" is confirm the enforcement of this report * Results shall be referred to travall completely and applicable to sense parameters of by * Note per shall not be reported above to the Test report shall not be reported above to the Test report shall not be reported above to the Test report shall not be reported above to the Test report shall be disposed off after 14 days respectively from the date of costs of Test Report, extra specified above to the Test report to the Test

REMARKS: : Acceptant by the class, sample was secret for above parameters with the emptire with 15:1899-2812 Specification, for texts conducted, indicating that is like for data-bing purpose with respe

to tenind parameters.

Verified By

Shubhangi Atmarkar Technical Manager Shashikant Satdeve

Sr. Chemist

END OF REPORT-

Authorized Signatury

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

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@unacon.in



Anacon Laboratories Pvt. Ltd.

Anacon Laboratories Pvt. Ltd. Nagpur Lab 9 FP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122. **L**+ 91 8045686558 ■ Email : Info@anacon.in @ https://www.anaconlaboratories.com

Test Report

Test Report No.: ALPL/12052	022/21-22		dated 12.05,2022			Page 1 of 2
Issued To: Western Coalfields Limited, N Futata Road, Coal Estate, Civil Nagpur, WCL HQ. (M.S.) - 440	Lines	Sample Inward ! Inward Date Reference	No. ALPL/03052022/W- 03.05.2022 wcl-hq-env-e01-2021 Dt28.07.2021	526	Analysis Str Analysis En	id 12.68.202
		Inv. No.	10		Sample Cas	egory Water
Sample Name Ground Water	Sa	Sample Particula mple ID – WN-58a, [Grou	of Analysis nd Water nality	Quantity Received 1L
Sample C Anacon Lab Representat	ollected By tive Mr. Maho		Sampling Date: 22.04.202 Sampling Time: 12.00pm			pling Location Bords
Tests Required : Chemical Tes	ting.					2000

TEST DESIGNED

S.N.	Test Parameter	Measurement Unit	Test Method	Requirem IS 1059 (Ground Water Specific Including Amo	0 : 2012 Quality Water	Test Result
	Nacional VA TV Parent			Acceptable Limit	Permissible Limit #	
1	Chemical Testing 1. Water			MILESVAL	1	
1	Alkalinity (ns CaCO ₂)	mg/l	IS 3025 (Part 23): 1986	200	600	184.6
2	Colour	Hazen units	IS 3025 (Part 4): 2021	3	15	1
3	Chloride (as CI)	rhg/I	1S 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 ₂)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	35.7
9	Odour		IS 3025 (Part 5): 1983	Agrecable	Agreeable	Agrecable
10	pH	3 3 3	IS 3025 (Part 11): 1983	6.5 to 8.5	No relexation	7.22 at 25°C
11	Sulphate (as SO ₂)	mg/t	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	- No.	. 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

Shubbangi Armarkar Technical Manager Authorized Signatories

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



Anacon Laboratories Pvt. Ltd.

Anacon Laboratories Pvt. Ltd. Nagpur Lab

PFP-34, 35, Food Park, Five Star Industrial Estate,
 MIDC Buttbori, Nagpur, Maharashtra, india - 441 122
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 https://www.inaconlaboratories.com

Test Report

Test Report No. : ALPL/120	52022/21-22		dated 12,05,2022			Page 2 of 2
Issued To: Western Coalfields Limited, Futala Road, Coal Estate, Ctv Nappur, WCE, HQ, (M.S.) - 4	ii Lines.	Sample Inward for Inward Date Reference Inv. No.	No. ALPL/03052022/W-6 93.05.2022 wel-hq-env-e01-2021 Dt28.07.2021		Analysis Sta Analysis En Sample Cat	d 12,05,2022
Sample Name Ground Water	Sa	Sample Particula mple ID - WN-38a, [Grou	of Analysis ind Water Puality	Quantity Received
Sample Anacon Lab Represen	Collected By tative Mr. Maho		Sampling Date: 22.04.2022 Sampling Time: 12.00pm	P	Sam	pling Location Bords
Tests Required : Chemical T	esting.					

EST		

s.n.	Test Parameter	Measurement Unit	Test Method	IS 105 (Ground Wate Specif	ment as per 00 : 2012 er Quality Water fications) neadment No. 3	Test Result
	NO.			Acceptable Limit	Permissible Limit#	
ш	Chemical Testing 2. Residues In Water				G KANEDAM .	
15	Arsenic (as As)	mg/l	IS 3025 (Part 37): 1988	0.01	No relaxation	BDL (DL - 0.01)
16	Aluminium (as Al)	mg/I	IS 3025 (Part 2) : 2019 / IS 3025 (Part 55): 2003	0.03	0.2	BDL (DL - 0.01
17	Boron (as B)	mg/I:	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	Codmium (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	1S 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)	rgm	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.01)
26	Zinc (as Zn)	mg/t	IS 3025 (Part 2): 2019	5	15	BDL (DL = 0.1)

NOTES:

Please see watermark "Crigoral Test Report" to confirm the authorizing of this report.

Results shall be referred to tested unexplets) and applicable to tested parameters only.

Test report shall not be reproduced except in full unthant prior written approval of Annote Labs.

Liablity of Annote Labs in brained to invision internationally and permission annulosis; sample(s) shall be disposed off after 10 days and 15 days respectively from the date of issue of Test Report, unless appearing otherwise.

"mag" to equivalent to "pper"

REIL-Below detection limit

DL- Indicates detection limit of instrument/northod and shall be considered as "absent".

REMARKS: As requested by the client, sample was tested for above parameters only. Sample compiles with (5:10500;2013 Specification, for tests conducted, multicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Shashikant Satdeve Sr. Chemist Authorized Signatory

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

----END OF REPORT-



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

Company Information

Company Name

Western Coalfields Limited, Kumbharkhani

Underground Mine

Office of the Sub Area Manager, Ghonsa Sub Area,

Po. - Ghonsa, Tal.- Wani, Distt. - Yavatmal

25/1, 2, 3

Capital Investment (In lakhs)

4518.31

Pincode

445304

Telephone Number

8668343551

Region

SRO-Chandrapur

Last Environmental statement submitted

online

yes

Consent Valid Upto

31.10.2020

Coolina

Application UAN number

Taluka

Scale L.S.I.

Wani

Person Name

Satyendrakumar

Fax Number

07239241357

Consent Number

Industry Category Red

Submitted Date

29-09-2020

Village Ghonsa

City Wani

Designation

Sub Area Manager, GhonsaSub Area

samghonsa@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

BO/JD(APC)/EICNo.CH-1795-16/R/CC-7436 01.06.2016

Product Information

Product Name Consent Quantity Actual Quantity UOM COAL 0.36 0 MT/A

By-product Information

By Product Name **UOM Consent Quantity Actual Quantity** Ton/Y

1) Water Consumption in m3/day

Water Consumption for Consent Quantity in m3/day Actual Quantity in m3/day **Process** 1700 0

Domestic 0 60

All others

Total 1760 0

1) Effluent Gener Particulars	ration in CMD / MLD		Consent O	uantity	Actual O	uantitv	иом
Daily Trade Effluent			Consent Quantity 1692		Actual Quantity -		CMD
2) Product Wise	Process Water Consum	ption (cubic meter of					
Process water per unit of product) Name of Products (Production)				ıring the Prev nancial Year		ng the current ncial year	иом
Coal (Cubic Meter/Tonnes)			-		-		CMD
	Consumption (Consum	ption of raw material					
per unit of produ Name of Raw Ma			During t financia	he Previous I Year	During the Financial		иом
Explosives (Kg/Ton	nes)		-		-		Kg/Annum
4) Fuel Consump	tion	Consont avon	. Lik.	Actual	Overstitus		8.4
Fuel Name Diesel		Consent quar -	.575		Quantity	UO KL/	
Pollution dischar	ged to environment/ur	nit of output (Paramet	er as speci	fied in the cor	nsent issued)		
[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pol discharged(Mg/Lit) E PH,Temp,Colour Concentration		Percentage of variation from prescribed standards with reasons %variation			Reason
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Podischarged(Mg/NM) Concentration		from pres	s with reasor		Reason -
HAZARDOUS WAS 1) From Process Hazardous Waste 0	STES e Type Total During Po -	revious Financial year	· 1	Fotal During C	urrent Finan	cial year	ИОМ Ton/Y
2) From Pollution Control Facilities Hazardous Waste Type Total During Previous Financial year 0 - Total During Current Financial year						ncial year	UOM Ton/Y
SOLID WASTES 1) From Process Non Hazardous V	Vaste Type Total Duri -	ng Previous Financial	year	Total During	g Current Find	ancial year	UOM Ton/Y
2) From Pollution Non Hazardous V	Control Facilities Vaste Type To	tal During Previous Fi	nancial yea	r Total Du -	ring Current	Financial year	ИОМ Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type **UOM** Total During Previous Financial Total During Current Financial year year

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 Reduction in Reduction Reduction in Reduction in Capital Water Fuel & Solvent in Raw Power Investment(in Maintenance(in Consumption Consumption Material Consumption Lacs) Lacs) (M3/day) (KL/day) (Kg) (KWH)

1654988

Impact of the pollution control measures taken

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 Capital Investment **Environmental Protection** Measures (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