केवल नागपुर कोर्ट के अधिकार में

Under Jurisdiction of Nagpur Court Only



वेस्टर्न कोलफीलड्स लिमिटेड

WESTERN COALFIELDS LIMITED

(मिनीरत्न कंपनी) (A Miniratna Company) (कोल इंडिया लि. की अनुषमी कंपनी) (A Subsidiary of Coal India Limited

Ghonsa Sub Area, Wani North Area

घोंसा उपक्षेत्र, वनी उत्तर क्षेत्र

(भारत)

एक कदम स्वच्छता की ओर

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

पंजी-काः पो.रासा, तहः, वनी, जि. यवतमाल (महाराष्ट्र)-445304/ Regd. Off Po Rasa, Tah Wani , Dist. Yavatmal Mah- 445304

संदर्भ संख्या: 344

उपक्षेत्रिय प्रबन्धक का कार्यालय

घोंसा उपक्षेत्र

दिनांक: 30/05/2025

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 Rajur Underground Coal Mine (0.21 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 Rajur Underground Coal Mine (0.21 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:

1. क्षेत्रीय महाप्रवन्धक, वणी नार्थ क्षेत्र

2. महाधवंधक (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

4. क्षेत्रीय नोडल अधिकारी(पर्याः), वणी नॉर्थ क्षेत्र

5. कार्यालय प्रति

CONTENTS

- Environmental Clearance letter (from MoEF&CC)
- Consent to Operate letter (from MPCB)
- Data Sheet
- Status of Compliance Status of Environment Clearance Conditions

Annexures

- Environment Monitoring Report (for October'2024 to March'2025)
- Ground Water Level & Quality Analysis Report
- Environment Statement

4.76

No.J-11015/436/2006-IA.II(M) Government of India Ministry of Environment & Forests

Paryavaran Bhawan, C.G.O.Complex, Lodi Road, New Delhi -110003.

Dated: 17th May 2007

To
Head of Department Env./CE(Civil),
Environment Department,
M/s Western Coalfields Ltd.,
Coal Estate, Civil Lines,
NAGPUR – 440001.

Sub: Rajur Underground Coal Mine Project (0.21 MTPA) of M/s Western Coalfields Ltd. (WCL), located near village Rajur, Tehsil Wani, District Yavatmal, Maharashtra-Environmental clearance - reg.

Sir,

This has reference to letter of Ministry of Coal & Mines No. 43011/147/2006-CPAM dated 08.12.2006 forwarding your application and letter of M/s Coal India Ltd. dated 11.01.2006 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. It has been noted that the project is for production of coal in the existing Rajur Underground Coalmine Project at 0.21 MTPA involving a total lease area of 1695.60 ha, of which 1651.96 ha is agricultural land, 12.73 ha is forestland and 30.91 ha is Govt. wasteland. The mine requires renewal of lease. Forestry clearance is to be obtained with lease renewal. There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found within the core zone and in the 10 km buffer zone. There is no reported Schedule-I fauna in the study area. River flows adjacent to mine lease. It is not proposed to modify the natural drainage. The project does not involve R&R. Area for UG mining is 1615.91ha. Surface area includes 68.24 ha for infrastructure which includes colony, 2 ha for roads, 3.45 ha for green belt and 6 ha for CHP. Mining will be underground by semi-mechanised method. Rated capacity of the mine is 0.21 million tonnes per annum (MTPA) of coal production. Mineral transportation of 500 TPD of coal from pithead to railway siding is by road. Ultimate working depth of the mine is 220 m below ground level (bgl). Water table is in the range of 4.50m- 18.60m bgl in the core zone and 1:00m -16.25 m bgl in the buffer zone. Mining will intersect water table. Peak water demand is 4435m3/d of water of which 3500 m3/d is for sand stowing. Source of water is mine sump/pit water. Balance life of the mine at the rated capacity is 30 years. Public Hearing was held on 29.04.2006. NOC has been obtained on 09.06.2006. The project has been approved by M/s WCL on 06.05.1997. Capital cost of the project is Rs. 10.85 crores.



2. The Ministry of Environment & Forests hereby accords environmental clearance for the above-mentioned Rajur Underground Coal Project of M/s WCL over a lease area of 1695.60 ha for production of coal of 0.21 MTPA rated capacity under Section 12 of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto and under Para 2.1.1 of MOEF Circular dated 13.10.2006 subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- Mining shall be carried out as per statuette at a safe distance from the river/nallah flowing adjacent to the lease boundary.
- (ii) While extracting panels in the lower seam by UG method, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.
- (iii) At the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft.
- (iv) Sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.
- Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.
- (vi) No depillaring operation shall be carried out below the roads and village/ area with habitation found within the lease until they are relocated.
- (vii) 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 should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.
 - (viii) Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity should 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 should also provided adequate retention period to allow proper settling of silt material.

- (ix) Crushers at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc.
- (x) Drills should be wet operated only.
- (xi) Blasting should be practiced with use of delay detonators.
- (xii) A progressive afforestation plan shall be prepared and implemented over the mine lease area and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township outside the lease areas, etc, by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (xiii) Regular monitoring of groundwater level and quality should be carried out by establishing a network of exiting wells and construction of new peizometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forests and tot eh Central Pollution Control Board quarterly within one month of monitoring.
- (xiv) The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (xv) 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.
- (xvi) For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.
- (xvii) A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

(xviii) Consent to Operate shall be obtained before starting mining operations after fulfilment of the conditions imposed in NOC.

B. General Conditions

- No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.
- (iii) Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO2 and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.
- (iv) Data on ambient air quality (SPM, RPM, SO2 and NOx) should 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.
 - Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.
- (vi) Adequate measures should 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 should be provided with ear plugs/muffs.
- (vii) Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.
- (viii) Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.
- (ix) Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.

(x) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.

- (xi) A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- (xii) The funds earmarked for environmental protection measures should e kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bhopal.
- (xiii) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- (xiv) A copy of the will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xv) State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xvi) The Project authorities should 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.
- The Ministry or any other competent authority may stipulate any further condition for environmental protection.
- 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.
- The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control

of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.

> (Dr.T.Chandini) Director

Copy to:

Secretary, Ministry of Coal, New Delhi.

 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.

 Chairman, Maharsashtra 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.

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.

District Collector, Yavatmal Government of Maharashtra.

El Division, Ministry of Environment & Forests, New Delhi.

Guard File 11. Record File 10. Monitoring File 10.

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437

Fax:

24044532/4024068/4023516 Website: http://mpcb.gov.in Email: idair@mpcb.gov.in



Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (R35) Date: 12/10/2023

No:- Format1.0/APAE Section/UAN No.MPCB-CONSENT-0000163019/CR/2310000941

To,

M/s Western Coalfields Limited, Rajur Underground Coal Mine WCL Wani North Area Rajur Sub Area, At post Rajur, Tq. Wani, Dist. Yavatmal.



Sub: Renewal of Consent to Operate under Red/LSI category.

Ref:

- 1. Existing consent granted vide No. Format 1.0/APAE section/ UAN No. 0000133037/CR/2209002069,dtd. 30/09/2022, valid upto 30/04/2023.
- 2. Application for renewal of consent vide UAN No. 163019
- 3. Show cause notice issued vide letter No. MPCB/JD(APC)/SCN/TB-0005, dtd. 30/08/2023.
- 4. Compliance of show cause submitted by PP vide letter dtd.05/09/2023

Your application No.MPCB-CONSENT-0000163019 Dated 21.02.2023

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 and Rule 18(7) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- 1. The consent to renewal is granted for a period up to 30/04/2025
- 2. The capital investment of the project is Rs.46.87 Crs. (As per C.A Certificate submitted by industry)
- 3. Consent is valid for the manufacture of:

Sr No	Product		иом					
Prod	Products							
1	1 COAL mining on mining lease area of 1695.60 Hector 0.21 MTP							

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	13956	As per Schedule-I	(including mine discharge) Dust suppression and on land for irrigation
2.	Domestic effluent	200	As per Schedule-I	Soaked in soak pit

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	0	NA	0	As per Schedule -II

6. Non-Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	NA	0	NA	-	-

 Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for Collection, Segregation, Storage, Transportation, Treatment and Disposal of hazardous waste:

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
	NA		-		

- 8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities
- 10. The applicant shall comply with the conditions of the Environmental Clearance granted by MoEF, Gol vide No. J-11015/436/2006-IA.II(M) dtd. 17/05/2007.
- 11. PP shall install minimum 3 CAAQMS arrangement immediately and submit compliance to the Board office within 15 days and for the compliance of same bank guarantee or Rs.5 lakh shall be submitted as per schedule-III of the consent.
- 12. PP shall install STP within 03 months period to treat entire quantity of domestic effluent generated from all source. Effluent shall be segregated and treated in Septic tank and soak pit till installation and commissioning of the STP. For compliance of the same bank guarantee of Rs. 5 lakh shall be submitted as per schedule-III of the consent.
- 13. PP shall convert existing water sprinkling arrangement into chemical fogging arrangement (MgCl2) within 03 months period.
- 14. PP shall provide tar road in remaining area to achieve ambient air quality, a
- 15. PP shall carry out over burden dump management as per CPCB guidelines.
- 16. PP shall carry out plantation as per EC condition before ensuing monsoon.
- 17. PP shall provide adequte treatment plant for mine water discharge and submit sedimentation tank design details.
- 18. PP shall comply conditions of Noc granted by Central Ground Water Authority and same shall be renewed in advance before expiry of its validity period.
- 19. Industry shall extend validity period of existing Bank Guarantee as per Schedule-III of consent towards O&M of pollution control systems and towards compliance of the Consent conditions in favor of Regional Officer, M.P.C.Board, Chandrapur.

20. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)







Signed by: Dr. V.M.Motghare
Joint Director (Air Pollution Control)
For and on behalf of
Maharashtra Pollution Control Board
jdair@mpch.govin
2023-10-12 18:13/12 IST

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	285000.00	MPCB-DR-17539	27/02/2023	RTGS

Rs. 33,000/- balance with Board is adjusted for makeup of total consent and Mining charges fees of Rs.3,18,000/- for 2 terms.

Copy to:

- 1. Regional Officer, MPCB, Chandrapur and Sub-Regional Officer, MPCB, Chandrapur
- They are directed to ensure the compliance of the consent conditions.
- 2. Chief Accounts Officer, MPCB, Sion, Mumbai



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1. A] As per your application, you have provided one number of sedimentation tank of dimension 30m x 10m x 1.5m for mine water treatment & treated water is partly used for sprinkling.
 - B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	рН	5.5 to 9.0
(2)	Oil & Grease	10
(3)	BOD (3 days 27°C)	30
(4)	COD	250
(5)	Total Suspended solids	100
(6)	Total Dissolved solids	2100

- C] The Industry shall ensure connectivity of separate energy meter for pollution control system.
- D] The treated effluent shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, effluent shall find its way for gardening / outside factory premises.
- 2. A] Industry shall provide STP of adequate capacity to treat the entire quantity of domestic effluent generated from all sources within 3 months.
 - B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards (mg/l)	
1	BOD (3 days 27°C)	Not to exceed	30
2	COD	Not to exceed	100
3	SS	Not to exceed	50

- C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way for gardening / outside factory premises.
- 3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
- 4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	15309.00
2.	Domestic purpose	1053.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic		0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.



SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/pro posed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
0	NA		0.00	-	-	NA	-

- 2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- 5. Control Equipments
 - Coal handling plant provided with dust collector & automatic water sprinkler shall be operated
 - b. Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
 - c. Minerals shall be properly covered during transportation.
 - d. The applicant shall carry out tree plantation along road side, around dumps or compulsory afforestation as per proposal approved by Forest Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width & height is developed between mining area/road and surrounding environment.
 - e. Black topped metal roads provided shall be well maintained to prevent dust formation.
 - f. Overloading of dumpers shall be avoided to prevent spillages.
 - g. Correct type & quantity of explosive shall be used to avoid excess dust formation & vibration in the surrounding area.
 - h. The slope of the over burden shall have slope not more than 28° to the horizontal. The overburden shall be properly covered by vegetation for stabilization.
 - i. Minerals transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.
- Standards for Ambient Air Pollutants:

The Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM), Sulphur dioxide (SO_2) and Oxides of Nitrogen (NO_x) concentration in downwind direction considering predominant wind direction, at a distance of 500 metres from the following dust generating sources shall not exceed the standards specified in the table given below:

Dust Generating Sources:

Loading or unloading, Haul Road, coal transportation road, Coal handling plant (CHP), Railway Sliding, Blasting, Drilling, Overburden dumps, or any other dust generating external sources like coke ovens (hard as well as soft), briquette industry, nearby road etc.

Pollutant	Time weighted average	Concentration in Ambient Air
Suspended Particulates Matter	Annual Average	360 μg/m³
(SPM)	24 hours	500 μg/m³
Respirable Particulate Matter	Annual Average	180 μg/m³
(size less than 10 μm) (RPM)	24 hours	250 μg/m³
Sulphur Dioxide (SO ₂)	Annual Average	80 μg/m³
Sulpriul Dioxide (30 ₂)	24 hours	120 μg/m³
Oxides of Nitrogen as NO _x	Annual Average	80 μg/m³
Oxides of Microgen as NO _x	24 hours	120 μg/m³

- i. In case of any residential or commercial or industrial place falls within 500 metres of any dust generating sources, the National Ambient Air Quality Standards notified vide MOEFCC GOI notification dtd 16.11.2009 as ammended shall be made applicable.
- ii. The applicant shall provide minimum three ambient air quality monitoring stations within mining area which should be monitored for SPM, RSPM, SO₂, NOx, HC, CO etc. The Annual Arithmetic Mean of minimum 104 measurements in a year taken twice a week 24 hourly at uniform interval shall conform to the National Ambient Air Quality Standards prescribed under Air (Prevention and Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986. The records of results of monitoring done shall be made available for inspection to the officers of the Board.
- 7. The applicant shall take adequate measures for control of noise levels from its own sources as follows:

Sr. No	Location	Permissible Norms [in dB (A)]	Desired minimum thickness of green belt (m)
1.	Along Road side	65 (Commercial Area)	20
2.	In colonies	55 (Residential Area)	20
3.	Near Opencast Mines	75 (Industrial Area)	10
4.	Near CHPs	75	30
5.	Near Shaft	75	20
6.	Near Mine exhaust fan	75	> 50

8. Other conditions:

i Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess standards laid down, such information shall be forthwith reported to Board, concerned Police station, office of Directorate of Health services, Dept. of explosives, Inspectorate of Factories & Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.

SCHEDULE-III

Details of Bank Guarantees:

Sr. No	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs.15.0 Lakh	15 days	Operation and Maintenance of pollution control system so as to maintain consented standards precribed as per Air(Prevention & Control of pollution) Act, 1974 Water (Prevention & Control of Pollution) Act, 1981 & HW (MH & TM) Rules 2008 and also adhering to compliance of specific / general condition of Environment Clearance.	Regular Activity	30/8/2025
2	C to R	Rs.5.0 Lakh	15 days	Providing STP	3 months	30/08/2025
3	C to R	Rs.5.0 Lakh	15 days	Providing 3 nos. of CAAQMS	3 months	30/08/2025

^{**}Existing BG obtained for above purpose if any, may be extended for period of validity as above.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	BG	Reason of BG Forfeiture
	NA					

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned	
NA NA					

SCHEDULE-IV

General Conditions:

- The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2. If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment, the production process connected to it shall be stopped.
- 6. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 7. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 8. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW(M&TM) Rules 2016, which can be recycled/processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 9. The industry should comply with the Hazardous & Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 10. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 12. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 13. The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 14. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 15. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 16. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 17. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 18. The industry should not cause any nuisance in surrounding area.
- 19. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 20. The applicant shall maintain good housekeeping.
- 21. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end
- 22. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 23. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 24. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises
- 25. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

This certificate is digitally & electronically signed.



EXPENDITURE STATEMENT (ENVIRONMENT HEAD)

(Figs. in Lakhs)

	Financial Year								
Account Head	2017-	2018-	2019-	2020-	2021-	2022-	2023	2024	
Air Pollution Control	5.26	2.00	2.58					•	
Water Pollution Control	2.02		2.32						
Afforestatio n	0.81								
Statutory Fees (Consent Fees, Water Cess)	4.77					2.85	243.2	453	
Total	12.86	2.00	4.90	NIL	NIL	2.85	243. 28	453	

SOE (Civil)/NO(Env)
Ghonsa Sub Area

Sub Area Manager Ghonsa Sub Area

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

MONITORING PROFORMA: PART-I

Name of the Project	Rajur Underground Coal Mine		
Location and Address	Rajur Colliery, P.O.Rajur Tah. Wani, Dist. Yavatmal Pin 445 304		
Address for correspondence	Office of the Sub Area Manager, Ghonsa Sub Area, PO-Rasa, Tah- Wani, Dist- Yavatmal, State- Maharashtra.		
MoEF&CC Environmental Clearance letter No. & Date	EC Letter No.: J/11015/436/2006-IA.II(M) dated 17 th May, 2007 (0.21 MTPA)		
Period of Status Report	October 2024 to March'2025		
Date of commencement of Project	1939		

Status of Land Acquisition: The details are given as below:

Type of Land	Required as per EMP (Ha)	Actual acquired (ha) as on 31/03/2025		
Forest	12.73	12.73		
Agriculture	1651.96	1200.00		
Govt. Waste Land	30.91	30.91		
TOTAL	1695.60	1243.64		

Status of Legal Compliances:

a. Consent under Air	Consent to Operate has been granted by MPCB vide		
(Prevention and control of	Consent Order No. RED/L.S.I (R35) No:-		
Pollution) Act.	Format1.0/UANNo.MPCBCONSENT-0000163019/CR/2		
b. Consent under Water			
(Prevention and Control of	Valid up to 30.04.2025		
Pollution) Act.	CTO Renewal applied vide UAN No. MPCBCONSENT-		
b. Consent under Water	0000235268		
(Prevention and control of	dt: 03.02.2025		
Pollution) Cess Act			
Environment (Protection) Act	Environment Clearance accorded vide MoEF&CC, New		

	Delhi vide EC Letter No. J-11015/165/2009-IA.II(M) dated 8th June, 2017. Environment Audit statement for the year 2023-24 has been submitted online on MPCB portal.
Forest (Conservation) Act	At present there is no planning for further development of mine under forest land.

PART-II STATUS OF ENVIRONMENT

Air Pollution Control:-

a) No. of ambient air monitoring stations &	04 Nos. Ambient Air quality (Fortnightly
frequency of monitoring	Monitoring)
b) Name of the location	Ambient Air Quality Monitoring Stations 1) Near Bhandewada Incline (WNRUA-1) 2) Hutment/Substation (WNRUA-2) 3) Pit Office –(WNRUA-3) 4) SAM Office –(WNRUA-4)
c) Ambient air quality status for the parameters prescribed by state pollution control board.	

Water Pollution Control:-

a). No. of stations and frequency of	One, Fortnigh	tly			
monitoring					
b). Description of locations	1)Mine Water	discharg	e: W _N RUW-	1	
c). Average concentrations of major					
pollutants prescribed by State	Location	pН	COD	TSS	O&G
Pollution Control Board (fig. in mg/lit except pH)	Reports of I period from enclosed.				
d). Quantity of effluent discharge to	17123 KL/da	y (Mine p	oumped out v	vater after	Treatment in
Local Water source from each Source	sedimentation	pond)			
in Cu.m./day					

Noise Pollution Control:-

a) No. of noise monitoring stations & frequency	: 2 No.(Fortnightly)		
of monitoring			
b) Description of locations	1.Near Manager Office: W _N RUN1		
	2.Colony (Rajur): W _N RUN—2		
c) Noise level status prescribed by state			
pollution control board.	Location Day Night		

Reports of Environmental Monitoring Reports for the period from October'2024 to March'2025 are enclosed.
Trial CII 2023 are chelosed.

PART-III

STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP

Land Use Status:-

S.N.	Particulars	As per EMP	Current Period (October'2024 to March'2025)	Progressive upto 31.03.2025
1)	Area excavated (Ha.)			
2)	Top soil removed (MM³)			
3)	OB removed (MM ³)			
4)	OB back filled (MM³)	This is an underground mine, hence not applicable.		
5)	OB dumped (MM ³)			
6)	Area recovered for Reclamation (Physical area)			
7)	Area reclaimed biologically (Tree plantation on back-filled area)		N.A.	

Production:

Present Capacity/ Production: Previous years production figures are:

Year	Coal Production
	(Tons)
2020-21	56,008.00
2021-22	51555.00
2022-23	53266.00
2023-24	55555.00
2024-25	44670.00

Afforestation (figures in 000's):

S.N.	Locations	Current Period (October'2024 to March'2025)	Progressive upto 31.03.2025	Area Covered in Ha
01.	OB Dumps (Embankments)	This is an underground mine, hence not applicable.		
02.	Safety Zones	do		
03.	Backfilled Area		do	
04.	Other Area (Plantation)		18,574 Nos.	

Locations are marked on the working mine plan. Mine Plan is enclosed, in which plants are shown.

Area under plantation (progressive)	7 Ha
No. of plants per Hectare.	2500/Ha

Species planted up to date	Ashoka, Gulmohar, Karanj, Bar Subabul,
	Cassia, Neem, Amla, Khair, Teak,
	Shivaneta etc.

Rehabilitation and Resettlement:

S.No.	Particulars	SC ST Others
1	No. of land outsees	Not Applicable.
2	No. of land outsees rehabilitated	All the land oustees and provided employment or monitory compensation as per company norms.
3	No. of PAPs/PAFs to be resettled	Not Applicable.
4	No. of PAPs/PAFs resettled	Not Applicable.
5	Area of new site (Ha)	Not Applicable.
6	Status of development	
7	Civic amenities provided at new resettlement site	Not Applicable.

Organizational set up at Project level (Environment Cell):-

Name and designation of the persons:

Shri. Syed Nazimuddin, Sub Area Manager, Ghonsa Sub Area.

Shri. Rahul Gawai, Mine Manager. Rajur UG Mine

Shri. Shridhar Dhakite, SOE(Civil)/ Nodal Officer(Env.), Ghonsa Sub Area

SOE (Civil)/NO(Env)
Ghonsa Sub Area

Mine Manager Rajur UG

Sub Area Manager Ghonsa Sub Area

STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

Name of the Project: Rajur Underground Mine (for production capacity 0.21 MTPA) EC Letter No.:MoEF& CC vide EC Letter No.: J/11015/436/2006-IA.II(M) dated 17th May, 2007 (0.21 MTPA)

(For the period of October'2024 to March'2025)

A. Specific Conditions

SI. No.	Specific Conditions	Compliance Status
i.		Mining is being carried at a safe distance from the river / nallah flowing adjacent to the lease boundary.
ii.		All water bodies in the subsidence area shall be drained while extracting panel in the lower seam.
iii.	At the time of de-pillaring protective bunds and garland drain shall be provided so that no water from the surface enters subsidence area and the shaft.	
iv.	Sufficient coal pillar shall be left un- extracted around the air shaft (within the subsidency influence area.) to protect from subsidence if any.	
ν.	Solid barriers shall be left below the roads falling within the block to avoid any damage to the roads.	
vi.	No de-pillaring, operation shall be carried out below the road and village / area with habitation found within the lease until they are re-located.	
vii.	movement of the surface over and around the working area & impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings, should be continue till movement ceases completely. In case of observation of any high rate of subsidence movement appropriate effective corrective measures should be taken to avoid loss of life & materials. Cracks should be effectively plugged with ballast and clayey soil / suitable material.	In case of observation of any high rate of subsidence, appropriate effective corrective measures will be taken
viii.	Garland drains (Size, gradient & length)	Garland drains of required size and gradient &

	around the safety area such as mine shaft & low lying areas & sump capacity should be designed keeping 50% safety margin over an above the peak sudden rain fall and maximum discharge in the area adjoining the mine sides. Sump capacity should also provide adequate retention period to allow proper settling of silt material.	
ix.		
X.	Drills should be wet operated only	Not Applicable
xi.	Blasting should be practiced with use of delay detonators.	Blasting is done with delay detonators
xii.	prepared & implemented over the mine lease area & shall include areas under	
xiii.	and quality should be carried out by establishing a network of existing well and construction of new peizometer. The	
xiv.	of ground water requirement of nearby	Agreed, Water requirement of nearby villages will be supplemented by giving water to theses villages, in case the village wells go dry due to de-watering of mine
XV.	Beside carrying out regular periodic health check up of their workers, 10% of the workers identified from work force	Agreed, Periodical medical examination/health checkup of workers are regularly done in WCL hospital.

NA
NA
The final mine closure plan will be submitted to the ministry of environment of forest five year in advance of final mine closure for approval.
Consent to Operate has been granted by MPCB vide Consent Order No. RED/L.S.I (R35) No:-Format1.0/UANNo.MPCBCONSENT-0000163 019/CR/2310000941 Valid up to 30.04.2025 CTO Renewal applied vide UAN No. MPCB-CONSENT-0000235268 dt: 03.02.2025

SI.	Conditions	Compliance Status
No.		
i.	No. Change in Mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	
ii.	No. Change in the calendar plan including excavation quantum of coal and waste/ OB dumps should be made.	Agreed
iii.		1) Near Bhandewada Incline (W _N RUA-1) 2) Hutment/Substation (W _N RUA-2) 3) Pit Office –(W _N RUA-3) 4) SAM Office –(W _N RUA-4) Where in Ambient Air Quality is being monitored by CMPDIL, Nagpur · on fortnightly

iv.	Data on ambient air quality should be regularly submitted to this Ministry including its Regional Office at Bhopal and the State Pollution Control Board once in six months.	every fort night and the observed values of
v .	Fugitive emissions should be controlled regularly monitored and data recorded properly. Adequate measures for control of fugitive emissions should be taken during drilling and blasting operations loading and transport of coal etc.	mining operations is carried out below ground. Moreover there is no overburden being generated. As such there is no other source of
vi.	Adequate measures should be taken for control of noise levels below 85 dB in the work environment. The workers engaged in blasting and drilling operations, operation of HEMM etc. should be provided with car plugs/muffs.	CMPDIL, Nagpur on fortnight basis. Reports of Environmental Monitoring for October'2024
vii.	Industrial waste water (workshop & waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dt. 19 th May, 1993 and 31 st December, 1993. The treated waste should be should be utilized for plantation purpose.	washing/ maintenance. Work shop is very small for only small repair job. There is no waste water from workshop. Mine pumped out water is being treated in a sedimentation tank before
viii.	Vehicular emission should be kept under control and regularly monitored. Vehicles used for transporting the minerals should be covered with tarpaulins and optimally loaded.	time and vehicles used for transporting coal are
ix.	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the state Pollution Control Board.	at CMPDIL, Nagpur which monitors the Air, Water and Noise in the mining area.
X.	Personnel working in dusty areas should protective respiratory devices and they should also be provided with adequate training and	Protective health & safety gears were being provided to workmen exposed to dust during operation. The workers were also given regular

	Occupational health's surveillances programme of the workers should be undertaken periodically to observe any contractins due to exposure to dust and to take corrective measures if needed	
		(Environment) with team of qualified
	The funds separate earmarked for environ mental protection measures should be kept in separate account and should not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	protection measures are maintained in separate account and used for the environmental
	The regional office of this ministry located at Bhopal shall monitor compliance of stipulated conditions. The project authorities shall extend full co-operation to the offices of the regional office by furnishing the requisite date/information/ monitoring reports.	
xiv.	A copy of the clearance given by MOEF wil be morn to concerned Panchayat /local NGO if any from who any suggestion/ representation has been received while	Surpanch Rajur Grampanchayat.
	State pollution control board should display a copy of a clearance letter at the regional office, district industry center and collector's office, Tahsildar's office for 30 days	
	The project authorities should advertise at least in two local news paper 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 clearance letter is available with SPCB and may also be seen at the website of MOEF at http://envfor.nic.in.	
xvii	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	나는 그런 사람들이 되었다면 보고 있었다면 하는데 목표를 통해야 한다면 되었다. 그런 물로를 받는데 되었다면 되었다면 되었다면 하다는데 하를 살고 말했다면 하다.
xviii	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.	
-ix	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.	

SOE (Civil)/NO(Env)
Chonsa Sub Area

Mine Manager Rajur UGM

Sub Area Manager Ghonsa Sub Area



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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

RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



OCTOBER 2024

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

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/OCT-24/28 DATE OF ISSUE		25.11.2024		
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR				
TEST RECHIRED	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:			16-10-24 TO 15-11-24	

NEAR BANDEWADA INCLINE WNRUA1								
DATE/dd:mm:va	A OE SAMBLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS	
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)	
FROM	TO	5	5	2	6	10	(SKY/ WIIIU)	
07.10.2024	08.10.2024	325	267	52	18	15	CLEAR/MODERATE BREEZE	
20.10.2024	20.10.2024 21.10.2024		221	41	14	10	CLEAR/MODERATE BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

SAM OFFICE WNRUA2								
DATE/ddummuu) OF CAMPLING	PARAMETERS (24 hourly values in μg/m ³)					ENVIRONMENT CONDITIONS	
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)	
FROM	TO	5	5	2	6	10	(Sky/ Willu)	
07.10.2024	08.10.2024	304	218	44	13	10	CLEAR/MODERATE BREEZE	
20.10.2024	20.10.2024 21.10.2024		190	38	11	BDL	CLEAR/MODERATE BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

	PIT OFFICE WNRUA3							
DATE/ddimmin	DATE (delegan and OF CANADI INC		PARAMETERS)	ENVIRONMENT CONDITIONS			
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)	
FROM	TO	5	5	2	6	10	(Sky/Willa)	
08.10.2024	09.10.2024	296	205	49	16	12	CLEAR/LIGHT BREEZE	
21.10.2024	21.10.2024 22.10.2024		231	52	18	13	CLEAR/LIGHT BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

	HUTMENT WNRUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETER	ENVIRONMENT CONDITIONS					
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)		
FROM	TO	5	2	6	10			
14.10.2024	15.10.2024	85	27	10	BDL	CLEAR/MODERATE BREEZE		
27.10.2024	27.10.2024 28.10.2024		25	8	BDL	CLEAR/MODERATE BREEZE		
NAAQS	NAAQS, 2009		60	80	80			



Analysed by

CMPDI RI-IV, NAGPUR 2 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



FUGITIVE DUST MONITORING

TEST REQUIRED S	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance				
SAMPLE DESCRIPTION Air sample		Air sample(Fugitive)			
SAMPLING METHOD : LSOP 4		PERIOD OF PE	RFORMANCE OF LAB ACTIVITIES:	16-10-24 TO 15-11-24	

WEIGH BRIDGE WNUF1						
D		PARAMETERS (ENVIRONMENT CONDITIONS			
DATE(da:mm:yy	DATE(dd:mm:yy) OF SAMPLING		SPM PM ₁₀			
FROM	то	5	5	(Sky/Wind)		
20.10.2024	21.10.2024	340	222	CLEAR / MODERATE BREEZE		

laboratione

Analysed by

CMPDI RI-IV, NAGPUR 3 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR Test Report	
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SAMPLE DESCRIPTION	Water sample				
Tost Boguirod	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G:				
Test Required	IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)				
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-10-24 TO 15-11-24	

MINE WATER DISCHARGE: WNRUW1							
DATE OF SAMPLE		ANALYSI	S RESULTS				
COLLECTION	рН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)			
DETECTION LIMIT	2	10	4	2			
15.10.2024	8.17	26	36	BDL			
27.10.2024	7.98	28	40	BDL			
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10			



Analysed by

CMPDI RI-IV, NAGPUR 4 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE				
Test Required	CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, OCT-2015				
SAMPLING METHOD	LSOP 6				

	FAN HOUSE:	WNRUN1	•
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
OCT'24	11.10.2024	68.8	66.4
OCT'24	26.10.2024	69.1	67.4
	TION (REGULATION AND NTROL) RULES	75	70

COLONY RAJUR: WNRUN2				
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
OCT'24	11.10.2024	44.2	43.5	
OCT'24	26.10.2024	43.2	41.2	
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45	



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CMPDI RI-IV, NAGPUR 5 of 5



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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



NOVEMBER 2024

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

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

AN ISO 9001:2015 COMPANY

Test Report



TEST REPORT NO.		RIN/TR/NOV-24/28		DATE OF ISSU	E	24.12.2024
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:				16-11-24 TO 15-12-24

	NEAR BANDEWADA INCLINE WNRUA1								
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS		
DATE(dd.iiiii.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)			
FROM	TO	5	5	2	6	10	(Sky/Wind)		
08.11.2024	09.11.2024	251	163	37	13	10	CLEAR/MODERATE BREEZE		
22.11.2024	22.11.2024 23.11.2024		182	46	15	13	CLEAR/MODERATE BREEZE		
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120			

	SAM OFFICE WNRUA2								
DATE/dd:mm:\a/	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS			
DATE(dd:mm:yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)		
FROM	TO	5	5	2	6	10	(Sky/Wind)		
08.11.2024	09.11.2024	277	193	45	15	12	CLEAR/MODERATE BREEZE		
22.11.2024	23.11.2024	296	214	49	16	14	CLEAR/MODERATE BREEZE		
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120			

	PIT OFFICE WNRUA3								
DATE/dd	.) OF CAMPLING		PARAMETERS (24 hourly values in µg/m³)				5.11 //BOATA 45.11 COATBITIONS		
DATE(dd:mm:y	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/Wind)		
09.11.2024	10.11.2024	294	201	49	16	14	CLEAR/LIGHT BREEZE		
23.11.2024	24.11.2024	271	188	44	14	11	CLEAR/LIGHT BREEZE		
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120			

HUTMENT WNRUA4								
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING PM ₁₀ PARAMETERS (24 PM ₁₀		RS (24 hourly va	alues in μg/m³)	ENVIRONMENT CONDITIONS		
			PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)		
FROM	TO	5	2	6	10			
09.11.2024	10.11.2024	87	24	10	BDL	CLEAR/MODERATE BREEZE		
17.11.2024	18.11.2024	81	21	9	BDL	CLEAR/MODERATE BREEZE		
NAAQS	5, 2009	100	60	80	80			



CMPDI RI-IV, NAGPUR 2 of 4

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	(2)
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SAMPLE DESCRIPTION	Water sam	ple				
Test Required	pH: IS 302	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G:				
rest Required	IS 3025-Pa	rt 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA	(2019)			
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-11-24 TO 15-12-24		

MINE WATER DISCHARGE: WNRUW1							
DATE OF SAMPLE	ANALYSIS RESULTS						
COLLECTION	pН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)			
DETECTION LIMIT	2	10	4	2			
12.11.2024	7.95	24	32	BDL			
23.11.2024	7.99	28	40	BDL			
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10			



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CMPDI RI-IV, NAGPUR 3 of 4

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, NOV-2015
SAMPLING METHOD	LSOP 6

	FAN HOUSE:	WNRUN1	
	DATE OF SAMPLE	MPLE NOISE LEVEL IN dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
NOV'24	10.11.2024	68.1	65.5
NOV'24	26.11.2024	68.4	66.1
	ON (REGULATION AND TROL) RULES	75	70

	COLONY RAJUR:	WNRUN2			
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)			
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
NOV'24	10.11.2024	43.2	41.0		
NOV'24	26.11.2024	43.4	41.5		
	ON (REGULATION AND TROL) RULES	55	45		



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CMPDI RI-IV, NAGPUR 4 of 4



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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



DECEMBER 2024

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

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Test Report



TEST REPORT NO.	RIN/TR/DEC-24/28			DATE OF ISSU	E	28-01-2025	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
ITEST REQUIRED		182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance t 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				SAMPLIN	IG PLAN :	LQR 47	
SAMPLING METHOD: LSOP 4 PERIOD OF PERFORMANCE OF LAB ACT			OF LAB ACTIV	/ITIES:		16-12-24 TO 15-01-25	

	NEAR BANDEWADA INCLINE WNRUA1										
DATE/dd:mm:sa	V OE CAMBLING		PARAMETERS)	ENVIRONMENT CONDITIONS						
DATE(dd.iiiii.yy	DATE(dd:mm:yy) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				SO ₂	ENVIRONMENT CONDITIONS					
FROM	TO	5	5	2	6	10	(Sky/Wind)				
07-12-2024	08-12-2024	261	178	41	13	10	CLEAR/MODERATE BREEZE				
21-12-2024	22-12-2024	299	201	52	19	16	CLEAR/MODERATE BREEZE				
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120					

	SAM OFFICE WNRUA2										
DATE/ddummen		PARAMETERS	FAILURONNAFAIT CONDITIONS								
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS					
FROM	TO	5	5	2	6	10	(Sky/Wind)				
07-12-2024	08-12-2024	289	208	46	15	13	CLEAR/MODERATE BREEZE				
21-12-2024	22-12-2024	324	321	55	20	17	CLEAR/MODERATE BREEZE				
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120					

	PIT OFFICE WNRUA3										
DATE(dd:mm:yy		PARAMETERS	(24 hourly va	lues in μg/m³))	ENVIRONMENT CONDITIONS					
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)					
FROM	TO	5	5	2	6	10	(Sky/Willa)				
08-12-2024	09-12-2024	312	207	53	17	14	CLEAR/LIGHT BREEZE				
22-12-2024	23-12-2024	288	176	49	15	11	CLEAR/LIGHT BREEZE				
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120					

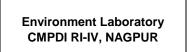
	HUTMENT WNRUA4											
DATE(dd:mm:yy) OF SAMPLING		PARAMETE	RS (24 hourly va)	ENVIRONMENT CONDITIONS							
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)						
FROM	TO	5	2	6	10							
02-12-2024	03-12-2024	95	34	13	10	CLEAR/MODERATE BREEZE						
16-12-2024 17-12-2024		81	27	11	BDL	CLEAR/MODERATE BREEZE						
NAAQS, 2009		100	60	80	80							



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CMPDI RI-IV, NAGPUR 2 of 5

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Test Report



SAMPLE DESCRIPTION	Water sam	Water sample								
Hest Required	-	5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 5-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 199:		PHA (23rd Edition) 5220 C :2017,O						
SAMPLING METHOD	LSOP 5	LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 16-12-24 TO 15-01-25								

MINE WATER DISCHARGE: WNRUW1										
DATE OF SAMPLE		ANALYSI	S RESULTS							
COLLECTION	pН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)						
DETECTION LIMIT	2	10	4	2						
13-12-2024	8.10	30	48	BDL						
26-12-2024	8.24	22	32	BDL						
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10						

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CMPDI RI-IV, NAGPUR 4 of 5

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015
SAMPLING METHOD	LSOP 6

	FAN HOUSE:	WNRUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'24	07-12-2024	68.4	65.1
DEC'24	26-12-2024	68.5	66.4
	ON (REGULATION AND TROL) RULES	75	70

	COLONY RAJUR:	WNRUN2	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
DEC'24	07-12-2024	43.5	41.1
DEC'24	26-12-2024	43.2	41.1
	ON (REGULATION AND TROL) RULES	55	45



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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH AREA

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JOB NO. 4094423068



JANUARY 2025

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

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Test Report



TEST REPORT NO.	EST REPORT NO. RIN/TR/JAN-25/28			DATE OF ISSU	25-02-2025		
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
TEST RECHIRED		Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance ume-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			LQR 47		
SAMPLING METHOD:	LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:				16-01-25 TO 15-02-25	

	NEAR BANDEWADA INCLINE WNRUA1										
DATE(dd:mm:yy) OF SAMPLING			PARAMETERS	ENVIRONMENT CONDITIONS							
DATE(dd.IIIII.yy) OF SAMPLING		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)				
FROM	TO	5	5	2	6	10	(Sky/Wind)				
06-01-2025	07-01-2025	251	159	49	12	BDL	CLEAR/MODERATE BREEZE				
20-01-2025	21-01-2025	276	183	52	17	14	CLEAR/MODERATE BREEZE				
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120					

SAM OFFICE WNRUA2										
DATE(dd:mm:yy		PARAMETERS)	ENIVERSAL AFAIT CONDITIONS						
DATE(dd.IIIII.yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	(Sky) Wind)			
06-01-2025	07-01-2025	302	210	57	18	14	CLEAR/MODERATE BREEZE			
20-01-2025	20-01-2025 21-01-2025		181	48	13	10	CLEAR/MODERATE BREEZE			
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120				

PIT OFFICE WNRUA3								
DATE(did as as as A OF CANADUALC			PARAMETERS		5111 // DOLLA 4511T COLUBITIONS			
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/Willa)	
07-01-2025	08-01-2025	309	223	58	18	15	CLOUDY/MODERATE BREEZE	
21-01-2025	22-01-2025	279	193	47	14	10	CLOUDY/MODERATE BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

HUTMENT WNRUA4								
DATE(dd:mm:yy) OF SAMPLING		PARAMETEI	ENVIRONMENT CONDITIONS					
			PM ₁₀		SO ₂	(Sky/Wind)		
FROM	TO	5	2	6	10			
05-01-2025	06-01-2025	76	24	10	BDL	CLEAR/MODERATE BREEZE		
19-01-2025	20-01-2025	82	30	12	10	CLEAR/MODERATE BREEZE		
NAAQS, 2009		100	60	80	80			



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CMPDI RI-IV, NAGPUR 2 of 5

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Environment Laboratory
CMPDI RI-IV, NAGPUR

Test Report



SAMPLE DESCRIPTION	Water sample						
Hest Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)						
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-01-25 TO 15-02-25			

MINE WATER DISCHARGE: WNRUW1									
DATE OF SAMPLE		ANALYSI	S RESULTS						
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G								
DETECTION LIMIT	2	10	4	2					
07-01-2025	8.51	28	44	BDL					
28-01-2025	8.10	34	48	BDL					
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10					



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CMPDI RI-IV, NAGPUR 4 of 5

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	OISE SAMPLE					
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015					
SAMPLING METHOD	SOP 6					

	FAN HOUSE:	WNRUN1	•
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JAN'25	11-01-2025	66.9	64.8
JAN'25	28-01-2025	68.5	66.1
	ON (REGULATION AND TROL) RULES	75	70

COLONY RAJUR: WNRUN2							
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)					
MONTH	COLLECTION	DAY TIME	NIGHT TIME				
	DETECTION LIMIT	20	20				
JAN'25	11-01-2025	43.1	41.0				
JAN'25	28-01-2025	43.6	41.4				
	ION (REGULATION AND TROL) RULES	55	45				



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Test Report



TEST REPORT NO.		RIN/TR/FEB-25/28 DATE OF ISSUE 25-				25-03-2025
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	ĺ	AIR SAMPLE		SAMPLING PLAN :		LQR 47
SAMPLING METHOD:	LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:				16-02-25 TO 15-03-25

NEAR BANDEWADA INCLINE WNRUA1								
DATE/ LL			PARAMETERS)	END (IDONIA AFAIT CONIDITIONS			
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				SO ₂	ENVIRONMENT CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
08-02-2025	09-02-2025	261	178	41	13	10	CLEAR/MODERATE BREEZE	
22-02-2025	23-02-2025	287	193	54	17	14	CLEAR/MODERATE BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

SAM OFFICE WNRUA2								
DATE(dd:mm:yy) OF SAMPLING			PARAMETERS	1	ENIVER ON MENT CONDITIONS			
DATE(dd:mm:yy	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5	5	2	6	10	(Sky/Willa)	
08-02-2025	09-02-2025	289	199	46	15	13	CLEAR/MODERATE BREEZE	
22-02-2025	23-02-2025	303	204	52	19	15	CLEAR/MODERATE BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

PIT OFFICE WNRUA3								
DATE(III			PARAMETERS	(24 hourly va	lues in μg/m³))	5.11.115.0.11.15.17.00.15.17.0.10	
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)	
09-02-2025	10-02-2025	312	207	53	17	14	CLOUDY/MODERATE BREEZE	
23-02-2025	24-02-2025	289	193	44	14	10	CLEAR/MODERATE BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

HUTMENT WNRUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETE	ERS (24 hourly va	ENVIRONMENT CONDITIONS			
. ,,,		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)	
FROM	TO	5	2	6	10		
07-02-2025	08-02-2025	95	34	13	10	CLEAR/MODERATE BREEZE	
21-02-2025	22-02-2025	79	23	10	BDL	CLEAR/MODERATE BREEZE	
NAAQS, 2009		100	60	80	80		



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CMPDI RI-IV, NAGPUR 2 of 5

CMPDI RI-IV, NAGPUR 3 of 5





SAMPLE DESCRIPTION	Water sample					
Test Deguired	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O					
Test Required	&G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)					
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-02-25 TO 15-03-25			

MINE WATER DISCHARGE: WNRUW1								
DATE OF SAMPLE		ANALYSI	S RESULTS					
COLLECTION	pН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)				
DETECTION LIMIT	2	10	4	2				
13-02-2025	8.35	30	40	BDL				
27-02-2025	7.98	24	36	BDL				
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10				

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CMPDI RI-IV, NAGPUR 4 of 5

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PRDECOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015
SAMPLING METHOD	LSOP 6

	FAN HOUSE:	WNRUN1			
	DATE OF SAMPLE		dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME		
	DETECTION LIMIT	20	20		
FEB'25	12-02-2025	62.7	61.6		
FEB'25	25-02-2025	68.4	66.1		
	ON (REGULATION AND TROL) RULES	75	70		

	COLONY RAJUR: WNRUN2						
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)					
MONTH	COLLECTION	DAY TIME	NIGHT TIME				
	DETECTION LIMIT	20	20				
FEB'25	12-02-2025	44.1	43.8				
FEB'25	25-02-2025	42.6	40.4				
	ON (REGULATION AND TROL) RULES	55	45				



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CMPDI RI-IV, NAGPUR 5 of 5



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ENVIRONMENTAL MONITORING REPORT

RAJUR UG

WANI NORTH AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



MARCH 2025

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

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

AN ISO 9001:2015 COMPANY

Test Report



TEST REPORT NO.			DATE OF ISSU	ΙE	15-04-2025	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR				
ITEST RECHIRED	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:				16-03-25 TO 15-04-25

NEAR BANDEWADA INCLINE WNRUA1							
DATE/dd.mama.u.a		PARAMETERS	1	END ADDAMAGNIT CONDITIONS			
DATE(dd:mm:yy) OF SAIVIPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS		
FROM	TO	5	5	2	6	10	(Sky/Wind)
08-03-2025	09-03-2025	241	152	37	12	BDL	CLEAR/MODERATE BREEZE
22-03-2025	23-03-2025	260	177	46	15	12	CLEAR/LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120	

SAM OFFICE WNRUA2							
DATE/dd.mama.u.u		PARAMETERS	1	ENIVERONIA AFAIT CONIDITIONS			
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/Willu)
08-03-2025	09-03-2025	263	179	33	14	10	CLEAR/MODERATE BREEZE
22-03-2025	23-03-2025	247	152	48	15	11	CLEAR/LIGHT BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120	

	PIT OFFICE WNRUA3							
DATE/ddumamawa	A OF CAMPLING	PARAMETERS (24 hourly values in μg/m ³)					ENIVERSAL AFAIT CONDITIONS	
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING SPM PM ₁₀		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	(Sky/Willa)	
04-03-2025	05-03-2025	285	199	46	16	13	CLEAR/MODERATE BREEZE	
27-03-2025	28-03-2025	259	167	40	12	10	CLEAR/LIGHT BREEZE	
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH DECember 2000		600	300	-	120	120		

HUTMENT WNRUA4							
DATE(dd:mm:yy) OF SAMPLING		PARAMETE	ENVIRONMENT CONDITIONS				
27112(0011111111)	Dividualiminity of Silvin Lines		PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)	
FROM	TO	5	2	6	10		
13-03-2025	14-03-2025	78	26	11	BDL	CLEAR/MODERATE BREEZE	
21-03-2025	22-03-2025	70	22	8	BDL	CLEAR/LIGHT BREEZE	
NAAQS, 2009		100	60	80	80		



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CMPDI RI-IV, NAGPUR 2 of 5

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

TECT DECLUDED	SPM: IS 5	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						
SAMPLE DESCRIPTION Air sample		Air sample	(Fugitive)			
SAMPLING METHOD : LSOP 4		PERIOD OF PE	RFORMANCE OF LAB ACTIVITIES:		16-03-25 TO 15-04-25	

WEIGH BRIDGE WNUF1						
DATE(\ o= casanunc	PARAMETERS (24 hourly values in μg/m³)		FAILURGALIA FAIT CONDITIONS		
DATE(dd:mm:yy) OF SAMPLING		SPM PM ₁₀		ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	то	5	5	(Sky) Willa)		
09-03-2025	10-03-2025	394	290	CLEAR/MODERATE BREEZE		

bulling

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CMPDI RI-IV, NAGPUR 3 of 5



Test Report



SAMPLE DESCRIPTION	Water sam	Water sample					
Hest Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)						
SAMPLING METHOD	LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 16-03-25 TO 15-04-25						

MINE WATER DISCHARGE: WNRUW1							
DATE OF SAMPLE	ANALYSIS RESULTS						
COLLECTION	pН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)			
DETECTION LIMIT	2	10	4	2			
09-03-2025	8.17	28	44	BDL			
29-03-2025	8.21	24	40	BDL			
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10			

botalhore

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CMPDI RI-IV, NAGPUR 4 of 5

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAMPLE
Test Required	CPCB PROTOCOL FOR AMBIENT NOISE MEASUREMENT, DEC-2015
SAMPLING METHOD	LSOP 6

	FAN HOUSE:	WNRUN1	
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAR'25	06-03-2025	67.4	65.1
MAR'25	25-03-2025	68.8	66.3
	ON (REGULATION AND TROL) RULES	75	70

	COLONY RAJUR: WNRUN2						
	DATE OF SAMPLE	NOISE LEVEL IN	dB(A)				
MONTH	COLLECTION	DAY TIME	NIGHT TIME				
	DETECTION LIMIT	20	20				
MAR'25	06-03-2025	43.4	41.2				
MAR'25	25-03-2025	42.5	40.1				
	ON (REGULATION AND TROL) RULES	55	45				



Amol Kamble Reviewed by



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

WANI NORTH AREA

WESTERN COALFIELDS LTD.



HALF YEARLY (OCT 24 - MAR 25)

Environment Laboratory

NABL Accredited vide Cert. No. TC-7102

CMPDI

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

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INDEX

	Sl. No.	PARTICULARS	PAGE NO.
Γ	1	HEAVY METAL ANALYSIS REPORT	1 TO 15

Test Report Ambient Air Quality Monitoring Data For **Heavy Metals**



,					
TEST REPORT NO.	RIN/TR/DEC /HM89			DATE OF ISSUE	28-01-2025
NAME OF CUSTOMER	GM(ENV.),W	CL(HQ), NAGPU	IR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFE	RENCE NO.	WCL/HQ/ENV,	/14-I/443-455 DATED 03.	.04.2024	-
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & C	Cd) in air samples (ASTM D	4185)	
NAME OF AREA	WANI NORTH	I		SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	RAJUR UG			SAMPLING PLAN : LQR 47	1
No. of Pages	1		•		-

Sl No.	Name of location	Location Code	Date of sampling
1	NEAR BHANDEWADA INCLINE	WNRUA-1	07-10-2024
2	SAM OFFICE	WNRUA-2	07-10-2024
3	PIT OFFICE /COLONY	WNRUA-3	08-10-2024
4	HUTMENT	WNRUA-4	14-10-2024

Sl. No.	Parameter	Method of	Detection	Observed Value		National Ambient Air Quality		
Ji. No. Faramet	T di di lice.	analysis	limit	WNRUA-1	WNRUA-2	WNRUA-3	WNRUA-4	Standard NAAQS, 2009
1	Arsenic, μg/m ³	ASTM D 4185	0.0007 μg/m ³	BDL	BDL	BDL	BDL	0.006 μg/m ^{3 (Annual} average)
2	Lead, μg/m3	IS 5182 PART 22	7.0 μg/m ³	BDL	BDL	BDL	BDL	1.0 μg/m ³ (24 Hourly average)
3	Nickle, μg/m³	ASTM D 4185	0.007 μg/m ³	BDL	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	BDL	**
5	Cadmium, μg/m³	ASTM D 4185	0.0015 μg/m ³	BDL	BDL	BDL	BDL	**
6	Mercury, μg/m3	ASTM D 4185	0.0007 μg/m ³	BDL	BDL	BDL	BDL	**

BDL: BELOW DETECTION LIMIT

SCIENTIFIC ASSISTANT

M. RABBANI AUTHORIZED SIGNATORY

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Test Report Ambient Air Quality Monitoring Data For Heavy Metals



TEST REPORT NO.	RIN/TR/DEC /HM97			DATE OF ISSUE	28-01-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR			SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFE	RENCE NO.	WCL/HQ/ENV/	/14-I/443-455 DATED 03.	04.2024	
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & C	Cd) in air samples (ASTM D	4185)	
NAME OF AREA	WANI NORTH	l		SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	RAJUR UG			SAMPLING PLAN : LQR 47	1
No. of Pages	1		•		_

SI No.	Name of location	Location Code	Date of sampling
1	WEIGH BRIDGE	WNUF1	20-10-2024

				Observed Value	National Ambient
SI. No.	Parameter	Method of analysis	Detection limit	WNUF1	Air Quality Standard NAAQS, 2009
1	Arsenic, μg/m³	ASTM D 4185	0.0007 μg/m ³	BDL	0.006 μg/m ^{3 (Annual} average)
2	Lead, μg/m3	IS 5182 PART 22	7.0 μg/m ³	BDL	1.0 μg/m ³ (24 Hourly average)
3	Nickle, μg/m³	ASTM D 4185	0.007 μg/m ³	0.0075	0.02 μg/m3 (Annual average)
4	Total Chromium, μg/m³	ASTM D 4185	0.0045 μg/m ³	BDL	**
5	Cadmium, μg/m³	ASTM D 4185	0.0015 μg/m ³	BDL	**
6	Mercury, μg/m3	ASTM D 4185	0.0007 μg/m ³	BDL	**

BDL: BELOW DETECTION LIMIT

SCIENTIFIC ASSISTANT

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REPORT ON

MONITORING OF GROUND WATER LEVEL

OF
RAJUR UG MINE,
WANI NORTH AREA

WESTERN COALFIELDS LTD.



PERIOD- DEC 2022 (POST-MONSOON), JAN-FEB -2023 (WINTER), MAY-2023 (PRE-MONSOON) AUG-23 (MONSOON) NOV 2023 (POST-MONSOON), JAN 2024 (WINTER), MAY 2024 (PRE MONSOON), AUG 2024 (MONSOON), NOV (POST-MONSOON) 2024 & JAN 2025 (WINTER)



M/s Anacon Laboratories Pvt. Ltd., Nagpur

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

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

Mob: +91-9372960077 **Email:** *ngp@anacon.in*

Website: <u>www.anaconlaboratories.com</u> Report No. ANgr /PD/20A/2023/199

2023-24 & 2024-25

Certificate

Groundwater level monitoring has been conducted with due diligence, and a comprehensive report on the monitoring of groundwater levels in all observation wells has been prepared as per the scope of work outlined in work order no. वेकोलि/मुख्यालय/पर्यावरण/14-L/77, dated 08.12.2022 & second extension of work vide reference no. वेकोलि/मुख्यालय/पर्यावरण /14-L/48-60 Dated-01.01.2025 for the Jan 2025 (winter) Period.

The report includes the monitoring of groundwater levels and water quality analysis of observation wells pertaining to the RAJUR UG MINE, Wani North area of Yeotmal District, M.S.

The groundwater level monitoring was meticulously carried out by Anacon Laboratories Pvt. Ltd., and the analysis of the samples was performed by Skylab Analytical Laboratory, Bhiwandi, Kalyan a NABL Accredited Laboratory. (NABL Certificate no. TC-5150)

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

Atharva Nayab (Geologist) **Gyanchand Bohra**NABET Accredited EIA Expert for Hydrogeology & Geology

Nagpur Jan-2025 (Dr. D. G. Garway)
Head of Organization
Anacon Laboratories Pvt. Ltd., Nagpur

		CONTENTS	
TABLE/FIGURE	NAME OF SUB MINE PROJECT	GROUND WATER MONITORING DETAILS OF WELL	Page No.
I-FIGURE	RAJUR UG MINE,	GROUND WATER MONITORING STATION (OBSERVATION WELLS IN AND AROUND OF RAJUR UG MINE,	7
I-TABLE	RAJUR UG MINE,	PERIOD- DEC 2022 (POST-MONSOON), JAN-FEB -2023 (WINTER), MAY-2023 (PRE-MONSOON) AUG-23 (MONSOON) NOV 2023 (POST-MONSOON), JAN 2024 (WINTER), MAY 2024(PRE MONSOON), AUG 2024 (MONSOON), NOV (POST-MONSOON) 2024 & JAN 2025 (WINTER)	8
FIGURE-II	RAJUR UG MINE,	HYDROGRAPHS OF THE WATER LEVEL (OBSERVATION WELLS IN AND AROUND RAJUR UG MINE)	10



INTRODUCTION

Western Coalfields Limited (WCL) is one of the eight Subsidiary Compiler (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.

gamay

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 76 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/77 on date: 08.12.2022 & second extension of work vide reference no. वेकोलि/मुख्यालय/पर्यावरण /14-L/48-60 Dated- 01.01.2025 for the Jan 2025 (winter) Period.

This Ground Water Level Monitoring report is prepared RAJUR UG MINE,, of Wani North area of WCL for 10 seasons i.e PERIOD- DEC 2022 (POST-MONSOON), JAN-FEB -2023 (WINTER), MAY-2023 (PRE-MONSOON) AUG-23 (MONSOON) NOV 2023 (POST-MONSOON), JAN 2024 (WINTER), MAY 2024 (PRE MONSOON), AUG 2024 (MONSOON), NOV (POST-MONSOON) 2024 & JAN 2025 (WINTER). 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, Limestones 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 Limestones 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.



RAJUR UG MINE, WANI NORTH AREA WESTERN COALFIELDS LTD.

PERIOD- DEC 2022 (POST-MONSOON), JAN-FEB -2023 (WINTER), MAY-2023 (PRE-MONSOON) AUG-23 (MONSOON) NOV 2023 (POST-MONSOON), JAN 2024 (WINTER), MAY 2024 (PRE MONSOON), AUG 2024 (MONSOON), NOV (POST-MONSOON) 2024 & JAN 2025 (WINTER)



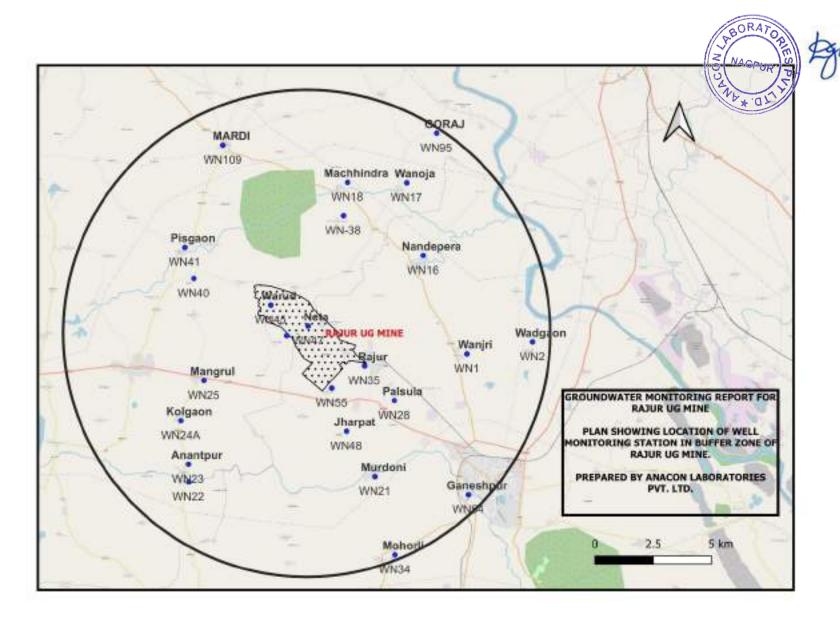


FIGURE-VI: GROUND WATER MONITORING STATION (OBSERVATION WELLS IN AND AROUND OF OC RAJUR UG MINE)

Table-VI-A: Groundwater level monitoring data of dugwells in buffer zone of Rajur UG, Wani North Area WCL

Sr.	Well	Name of	Well location	Latitude	Longitude	R.L.	Well	Well	Height of	f Depth to Water Level (mugl)								Utili		
No	No.	village				in m	dia	depth (m	measurin								ty/			
							(m)	bmp)	g point (m agl)											Own er
									(III agi)	Dec-	JAN-	May-	Aug	Nov-	Jan-	May-	Aug-	Nov-	Jan-	EI
										22	FEB-23	23	23	23	24	24	24	24	24	
1	WN23	Wehegao	Back side of Vittal	20°3'51.596715	78°49'44.018	197	4.57	6.62	0.6	1.9	3.6	6.0	2.80	3.40	3.70	5.90	3.00	3.15	3.80	D/I
		n	Mandir	4742725"	1968167315"															
2	WN34	Mohorli	Near Hanuman temple	20°1'37.752823	78°54'49.479	199	2.68	6.69	0.42	2	4.7	5.8	3.00	3.60	4.80	5.60	2.75	3.80	4.50	D/I
			and 60m E of Wani Rd.	9480725"	4349217079"														ļ!	
3	WN57a	Anantpur	About 70 m N of	20°3'51.596715	78°49'44.018	195	3.17	5.37	0.42	1.5	2.65	4.0	1.80	3.75	4.00	4.10	1.85	3.70	4.50	D/I
			village, adjacent to	4742725"	1968167315"															
4	WN2	Wadgaon	About 400 m S of	20°6'52.328744	78°58'12.970	224	4.75	7.01	0.85	1.4	4.1	5.5	1.70	1.90	5.00	4.80	1.75	1.60	2.95	D/I
			village, adjacent to	4895587"	2792106241"															
			nalla																ŀ	
5	WN54	Ganeshp	TW near the road	20°3'6.5919199	78°56'38.177	214	1.58	7.04	GL	2	2.6	4.4	1.80	2.20	2.80	5.00	1.90	2.10	2.70	D/I
		ur	junction of Wegaon &	0747701"	7867760342"															
			Ghonsa																ļ!	
6	WN1	Wanjri	C of village in southern		78°56'35.970	210	2.74	7.16	0.88	2.2	3.55	6.2	3.10	2.80	3.50	6.30	3.10	2.28	3.60	D/I
			sector, about 60 m E of	4314579"	9229812744"															
<u> </u>			main road	200012 20 10 20	=======================================								2 - 2	2 22			2 - 2	2.5-	2 - 2	- /·
7	WN16	Nandepe	Near Hanuman Temple and GP office	20°9'0.2843023 8283903"	78°55'31.316 8384091342"	220	4.23	8.05	0.7	3.1	4.05	7.2	2.70	3.00	4.05	7.50	2.50	2.65	3.70	D/I
8	WN17	Wanoja	60m E of road entering	20°10'47.71045	78°55'6.8346	225	4.6	9.3	0.4	4.2	6.5	7.9	1.90	2.20	6.00	8.00	2.00	2.10	4.80	D/I
0	VVINI	vvarioja	in villageand N of		4405743179"	223	4.0	9.5	0.4	4.2	0.5	7.9	1.90	2.20	6.00	8.00	2.00	2.10	4.60	וועט
			Nallah	82430007	4403743173															
9	WN18	Machhin	In front of GP office.	20°10'48.41436	78°53'39.404	214	2.71	10.18	0.76	2.1	3.7	8.1	2.60	3.20	3.80	7.10	2.10	3.30	3.90	D/I
		dra		16868323"	9451870286"															
10	WN21	Murdoni	At southern end of	20°3'33.379427	78°54'20.147	223	3.96	11.65	0.54	3.8	6.35	7.3	3.00	3.70	4.00	7.40	3.25	3.50	4.10	D/I
			village near Dahegaon	3210586"	7970797247"															
			road near Hanuman																	
			temple							_	_				_		_	_		
11	WN22	Wehegao	South of village on	20°3'25.436541	78°49'44.493	212	3.38	8.39	0.36	2.1	3.75	8.0	3.05	4.20	5.05	7.85	2.75	4.10	4.90	D/I
12	\A/NI2.4.5	N	Wani road	4407118"	1280117749"	100	6.00	2.24	0.51	1.25	2.45	2.0	1.00	2.10	2.00	2.10	1.05	2.00	2.40	D/I
12	WN24A	Kolgaon	Near OHT tank	20°4'56"	78°49'33"	198	6.09	3.21	0.51	1.25	2.45	3.0	1.80	2.10	2.60	3.10	1.65	2.00	2.40	ו/ט
13	WN25	Mangrul	On S of village and E	20°5'55.521795	78°50'7.0358	192	7.16	7.19	0.18	2.4	2.1	7.0	1.50	2.60	3.00	5.90	1.70	2.65	3.35	D/I

Sr. No	Well No.	Name of village	Well location	Latitude	Longitude	R.L. in m	Well dia (m)		Height of measurin g point	1									Utili ty / Own	
									(m agl)	Dec-	JAN- FEB-23	May-	Aug 23	Nov- 23	Jan- 24	May- 24	Aug-	Nov-	Jan- 24	er
			OF Road (well of YJ Dakhar)	5531901"	00462006"							-								
14	WN28	Palsula	15m N of Wani Yavatmal Rd near Soyabin Gowdown	20°5'25.844391 5272409"	78°54'48.567 3870674054"	195	5	13.5	0.3	3.1	7.45	6.3	2.90	3.80	6.00	6.00	3.00	3.50	5.70	D/I
15	WN35	Rajur	Near Sailani Baba Durgah and on 100m E of Wani Rajur Rd.	20°6'16.906231 4214401"	78°54'4.3808 6709162682"	224	4.87	9.12	0.6	3.25	4.85	4.8	3.50	3.90	4.50	5.00	3.00	3.70	4.30	D/I
16	WN-38	DON.DO NGARGA ON.	At the entrance of village	20°9'58.987534 9656637"	78°53'33.234 2079887793"	213	3.96	9.57	0.54	2.05	2.5	7.2	3.10	4.00	4.30	7.10	3.20	3.90	4.00	D/I
17	WN40	Pathri	At the entrance of village on Maregaon Chinchala road		78°49'52.104 0761401742"	195	4.48	8.66	1.06	3.15	4.36	5.4	2.70	3.60	4.60	5.05	2.95	3.40	4.50	D/I
18	WN41	Pisgaon	By the side of Maregaon-Mardi Rd	20°9'12.216430 9104178"	78°49'38.791 0716104819"	196	4.45	8.17	1.31	2.5	2	6.2	2.10	3.00	3.20	6.00	1.85	2.80	3.10	D/I
19	WN45	Warud	NEAR Hanuman Temple	20°7'46.848394 7443588"	78°51'45.867 6822046551"	198	4.72	7.28	0.76	2.6	4.7	6.7	2.60	3.80	4.40	6.90	2.50	3.50	4.20	D/I
20	WN46	Gawrala	On N of village near GP Office	20°7'1.8339869 8180071"	78°52'9.5714 4742213689"	202	2.59	8.81	0.51	2.9	4.05	5.3	1.90	2.50	4.00	5.50	1.80	2.60	3.70	D/I
21	WN47	Neta	In the centre of village	20°7'15.879312 8378633"	78°52'41.219 1819836652"	221	1.52	10.3	0.73	1.9	4.2	7.3	2.50	4.20	4.30	6.90	2.60	4.00	4.50	D/I
22	WN48	Jharpat	N side of road to village and about1km S of Reliance Pump	20°4'40.449683 5126025"	78°53'37.851 0403275994"	222	3.53	8.4	GL	2.3	4.3	7.9	2.30	3.40	4.45	8.30	2.55	3.30	4.10	D/I
23	WN55	Nimbala		20°5'44.210825 1503939"	78°53'16.144 5487261927"	204	3.74	9.29	0.18	3.6	6	8.2	3.10	3.90	5.30	9.00	2.90	3.70	4.90	D/I
24	WN95	GORAJ	200m W of road to village in field	20°12'1"	78°55'51"	210	4.5	7.8	0.2	2.1	4.9	5.5	3.00	3.60	4.60	5.70	2.65	3.45	4.50	D/I
25	WN109	MARDI	OUTSIDE THE VILLAGE IN THE FIELD OF AGRICULTURE LAND	Lawren	78°50'35.18"	195	5.2	12.4	0.3	4.4	6.3	9.0	4.00	4.30	5.70	8.40	3.60	4.00	5.40	D/I

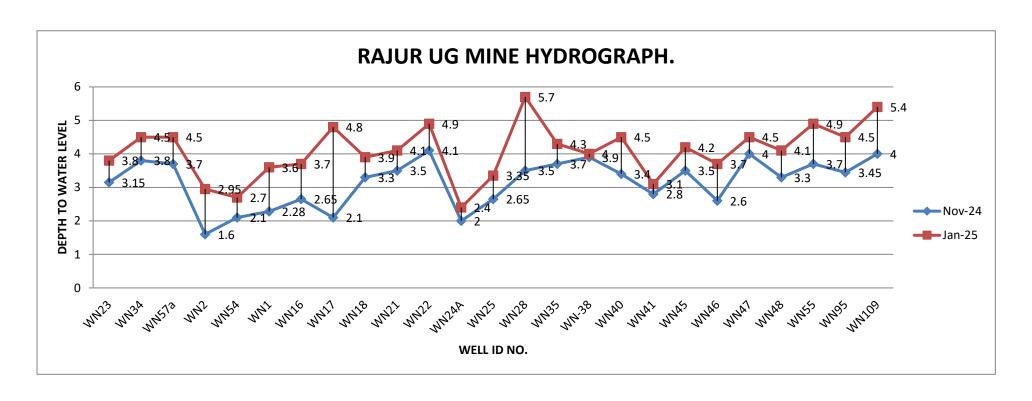


FIGURE-II: HYDROGRAPHS OF THE WATER LEVEL (OBSERVATION WELLS IN AND AROUND RAJUR UG MINE)







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TC 5150

Recognized by Ministry of Environment, Forest & Climate Change (McEFCC), Govt. of India, New Delhi

ENVIRONMENT

· FOOD

TEXTILE

ULR:TC5150240000000027F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.5), 44000.

REPORT NO :SAL/MSP19/FMD/05/GW(24-25-027)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-027)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE
ANALYSIS START DATE

:03/05/2024

ANALYSIS COMPLETE DATE

-07/05/2024

GROUND WATER ANALYSIS

LOCATION : Wanjri - (Wani North Area) Well No: WN1

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	220.64	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	170	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	64	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.27	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	20.41	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	4.00	45	No Relaxation	IS 3025 (Part 34)
9	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	- 4	6.18	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	20.61	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	702	500	2000	(\$ 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	248	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.07	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.6	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	BDL(DL- 0.05)	5	15	15 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

FOR SKYLAB ANALYTICAL LABORATORY

Authorized

Signatory of

Sr: Analyst

END OF REPORT

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ANALYTICAL LABORATORY

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Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt, of India, New Delhi

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* TEXTILE

ULR:TC5150240000000024F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO :S

:SAL/MSP19/FMD/05/GW(24-25-024)

REPORT DATE : 06/05/2024

CUSTOMER REF : Verbal

REF DATE : 1

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-024)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:01/05/2024

SAMPLE RECEIPT DATE

:02/05/2024

ANALYSIS START DATE

:02/05/2024

GROUND WATER ANALYSIS

LOCATION : Wadgaon - (Wani North Area) Well No: WN2

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	238.99	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	148	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	84.6	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	BDL(DL-0.1)	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	11.66	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	BDL(DL-2)	45	No Relaxation	15 3025 (Part 34)
9	Odour	120	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	-	8.43	6.5 - 8.5	No Relaxation	IS-3025 (Part 11)
11	Sulphate, SO4	mg/L	10.63	200	400	15 3025 (Part 24)
12	Total dissolved solids	mg/L	323	500	2000	15 3025 (Part 16)
13	Turbidity	NTU	BDL(DL-0.1)	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	130	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	BDL(DL-0.01)	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	15 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.01	1.0	No Relaxation	15 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	8DL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	BDL(DL-0.05)	- 5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , Calcium are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

FOR SKYLAB ANALYTICAL LABORATORY

Authorized Signatory

Sr. Analyst

END OF REPORT

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ULR:TC51502400000000028F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-028)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-028)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024

ANALYSIS COMPLETE DATE

:03/05/2024 :07/05/2024 GROUND WATER ANALYSIS

LOCATION: Nandepera - (Wani North Area) Well No: WN16

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit #	Permissible Limit #	Reference Method
1	Alkalinity	mg/L	232.66	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	140.15	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	82	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	(\$ 3025 (Part 26)
6	Fluoride	mg/L	0.22	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	17.01	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	2.07	45	No Relaxation	IS 3025 (Part 34)
9	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH		7.91	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, 504	mg/L	18.14	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	816	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	BDL(DL-0.1)	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	274	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.07	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	15 3025 (Part 2)
20	Metal-Iron	mg/L	0.6	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	(\$ 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	8DL(DL-0.05)	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity., Calcium, TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified W Sr Applyst FOR SKYLAB ANALY SKAL BABORATORY

Authorized Signatory

END OF REPORT

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Recognized by Ministry of Environment, Forest & Climate Change (McEFCC), Govt. of India, New Deihi

ENVIRONMENT

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ULR:TC5150240000000029F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-029)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

: NA REF DATE

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-029)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024 :07/05/2024

ANALYSIS COMPLETE DATE

:03/05/2024

GROUND WATER ANALYSIS

LOCATION: Wanoja - (Wani North Area) Well No: WN17

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY : Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit "	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	248.22	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	8DL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	164	250	1000	15 3025 (Part 32)
4	Calcium	mg/L	56.8	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	15 3025 (Part 26)
6	Fluoride	mg/L	BDL(DL- 0.1)	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	13.12	30	100	IS 3025 (Part 46)
8.	Nitrate	mg/L	3.15	45	No Relaxation	IS 3025 (Part 34)
9	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	-	8.27	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	21.46	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	764	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	BDL(DL-0.1)	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	280	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.05	0.5	2.4	15 3025 (Part 2)
18	Metal-Copper	mg/L	BOL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	15 3025 (Part 2)
20	Metal-Iron	mg/L	0.17	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	15 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	BDL(DL- 0.05)	5	15	15 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity., TDS, Hardness (total) are Exceeds. acceptable limit, however, the result is within permissible limit.

Verified by

Sr. Analys

For SKYLAB ANALYTICAL LABORATORY

END OF REPORT

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ENVIRONMENT

FOOD

* TEXTILE

ULR:TC5150240000000030F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-030)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO.

: 05/GW(24-25-030)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1 :02/05/2024

SAMPLING DATE

:03/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024

ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

LOCATION : Machhindra - (Wani North Area) Well No: WN18

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY t 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit [#]	Reference Method
1	Alkalinity	mg/L	264.64	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
-3	Chloride	mg/L	162	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	64	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	BDL[DL- 0.1)	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	13.60	30	100	IS 3025 (Part 46)
.8	Nitrate	mg/L	BDL(DL-2)	45	No Relaxation	IS 3025 (Part 34)
9	Odour		Agreeable	Agreeable	Agreeable	15 3025 (Part 5)
10	pH	+	7.28	5.5 - 8.5	No Relaxation	15 3025 (Part 11)
11	Sulphate, 5O4	mg/L	19.37	200	400	(5 3025 (Part 24)
12	Total dissolved solids	mg/L	813	500	2000	15 3025 (Part 16)
13	Turbidity	NTU	BDL(DL- 0.1)	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	289	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.04	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	15 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	2.06	1.0	No Relaxation	15 3025 (Part 2)
21	Metal-Lead	mg/L	BOL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	15 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	15 3025 (Part 2)
26	Zinc	mg/L	0.22	5	15	15 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample As per IS 10500: 2012 Alkalinity , TDS, Hardness (total), Iron are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

FOR SKYLAB ANALYTICAL DEBORATORY

Sr. Angrifst

Signator

END OF REPORT

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ENVIRONMENT

• FOOD

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ULR:TC5150240000000031F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.5), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-031)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE : N

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-031)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE
ANALYSIS START DATE

:03/05/2024

ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

LOCATION : Murdoni - (Wani North Area) Well No: WN21

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	rng/L	238.66	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	15 3025 (Part 4)
3	Chloride	mg/L	180	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	62	75	200	15 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	BDL(DL- 0.1)	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	17.01	30	100	IS 3025 (Part 46)
В	Nitrate	mg/L	2.45	45	No Relaxation	IS 3025 (Part 34)
9	Odour	- 2	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	4	5.64	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	23.46	200	400	15 3025 (Part 24)
12	Total dissolved solids	mg/L	778	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.3	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	332	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.06	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	15 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.52	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	15 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	0.13	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

Sr. Analyst

FOR SKYLAB ANALYTIGAL LABORATORY

Authorized Signatory

END OF REPORT

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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-032)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-032)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE

:03/05/2024

ANALYSIS START DATE ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

LOCATION: Wehegaon - (Wani North Area) Well No: WN22

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY : Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

:03/05/2024

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	256.02	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	15 3025 (Part 4)
3	Chloride	mg/L	170	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	60	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	80L(DL-0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	80L(DL-0.1)	1.0	1.5	15 3025 (Part 60)
7	Metal-Magnesium	mg/L	18.95	30	100	IS 3025 (Part 46)
В	Nitrate	mg/L	3.92	45	No Relaxation	15 3025 (Part 34)
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	+	7.96	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	27.73	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	758	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	228	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	15 3025 (Part 2)
17	Boron as B	mg/L	0.08	0.5	2.4	15 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	15 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.12	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	80L (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	15 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	BDL(DL-0.05)	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by Sr. Angryst For SKYLAB ANA

END OF REPORT

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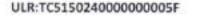
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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

:06/05/2024

(M.S), 44000.

REPORT NO :SAL/MSP19/FMD/05/GW(24-25-005)

REPORT DATE : 06/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-005) SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE :01/05/2024

SAMPLE RECEIPT DATE :02/05/2024 :02/05/2024 ANALYSIS START DATE

ANALYSIS COMPLETE DATE

GROUND WATER ANALYSIS

LOCATION: Wehegaon - (Wani North Area) Well No.: WN23

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY

: 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	256.09	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	158.06	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	115.9	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BOL(DL-0.1)	>0.2	1	IS 3025 (Part 26)
-6	Fluoride	mg/L	0.38	1.0	1.5	15 3025 (Part 60)
7	Metal-Magnesium	mg/L	48.59	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	BDL(DL-2)	45	No Relaxation	IS 3025 (Part 34)
9	Odour	7	Agreeable	Agreeable	Agreeable	(5 3025 (Part 5)
10	pH	+	8.18	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	17.00	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	924	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	498	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.05	0.5	2.4	15 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-iron	mg/L	0.42	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	0.06	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	BDL(DL- 0.05)	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity, Calcium, Magnesium, TDS, Hardness(total) are Exceeds acceptable limit, however, the result is within permissible limit

Verified by

For SKYLAB ANAL BORGTORY

Sr. Anath

Authorized Signatory

END OF REPORT

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Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

ENVIRONMENT

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ULR:TC5150240000000033F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-033)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-033)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE

:03/05/2024

ANALYSIS START DATE

:03/05/2024

LOCATION : Kolgaon - (Wani North Area) Well No: WN24A

SAMPLE SPECIFICATION: Ground Water

GROUND WATER ANALYSIS

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

ANALYSIS COMPLETE DATE

:07/05/2024

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	230.06	200	600	IS 3025 (Part 23)
.2	Colour	Hazen Unit	BDL(DL-1)	5	15	15 3025 (Part 4)
3	Chloride	mg/L	188	250	1000	(S 3025 (Part 32)
4	Calcium	mg/L	52.8	75	200	15 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	8DL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.17	1.0	1,5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	23.81	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	3.14	45	No Relaxation	IS 3025 (Part 34)
9	Odour	-	Agreeable	Agreeable	Agreeable	is 3025 (Part 5)
10	pH		7.69	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	21.65	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	726	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	230	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.04	0.5	2.4	15 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.05	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	0.06	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

For SKYLAB ANALYTICAL LABORATORY

UNITED IN

Sr. Artalyst

END OF REPORT

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202, CFC-3, Asmeeta Texpa, Addi Kalyan-Bhiwandi Industrial Area, MIDC, Village Kon, Tal. Bhiwandi, Dist, Thane, Maharashtra, INDIA. Pincode-421311.

Mob.: 9867577309-312 / 8422929165. Email: mails@skylabenviro.com, Website: www.skylabenviro.com

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ULR:TC5150240000000034F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-034)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE

: NA

GROUND WATER ANALYSIS

LOCATION : Mangrul - (Wani North Area) Well No: WN25

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

SAMPLE TYPE:

SAMPLE REGISTRATION NO.

: 05/GW(24-25-034)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

:02/05/2024

SAMPLING DATE

:03/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024

ANALYSIS COMPLETE DATE

:07/05/2024

Acceptable Permissible Sr. No. Test Parameter Unit Result Reference Method Limit * Limit # Alkalinity 200 600 IS 3025 (Part 23) 1 mg/L 202.06 Colour IS 3025 (Part 4) b Hazen Unit BDL(DL-1) 5 15 3 Chloride 170 250 1000 IS 3025 (Part 32) mg/L 4 Calcium 75 200 IS 3025 (Part 40) mg/L 52.8 Residual free chlorine (RFC) BDL(DL-0.1) ς mg/L 50.2 1 15 3025 (Part 26) б Fluoride 1.0 1.5 IS 3025 (Part 60) mg/L 0.17 7 Metal-Magnesium mg/L 30 100 IS 3025 (Part 46) 23.81 8 Nitrate 3.14 45 No Relaxation IS 3025 (Part 34) mg/L Agreeable 9 Odour Agreeable Agreeable 15 3025 (Part 5) 10 pH 7.69 6.5 - 8.5 No Relaxation 15 3025 (Part 11) 11 Sulphate, SO4 mg/L 21.65 200 400 15 3025 (Part 24) 12 Total dissolved solids 737 500 2000 IS 3025 (Part 16) mg/L NTU 0.1 5 15 3025 (Part 10) 13 Turbidity 1 600 Hardness (total) 230 200 IS 3025 (Part 21) 14 mg/L Metal-Arsenic 0.01 No Relaxation IS 3025 (Part 2) 15 mg/L BDL (DL-0.01) BDL(DL-0.02) 0.03 IS 3025 (Part 2) 16 Metal-Aluminium mg/L 0.2 17 Boron as B 0.04 0.5 2.4 IS 3025 (Part 2) mg/L Metal-Copper BDL(DL-0.05) 0.05 1.5 IS 3025 (Part 2) 18 mg/L Metal-Cadmium BDL/DL- 0.0031 0.003 No Relaxation IS 3025 (Part 2) 19 mg/L 0.08 1.0 No Relaxation IS 3025 (Part 2) Metal-Iron 20 mg/L Metal-Lead BDL (DL-0.01) 0.01 No Relaxation IS 3025 (Part 2) mg/L 21 0.1 0.3 IS 3025 (Part 2) BDL(DL-0.05) Metal-Manganese mg/L 22 0.02 No Relaxation IS 3025 (Part 2) BDL[DL-0.02] Metal-Nickel mg/L 23 IS 3025 (Part 2) 0.01 No Relaxation BDL (DL-0.01) Metal-Selenium mg/L 24 IS 3025 (Part 2) No Relaxation BDL(DL-0.05) 0.05 25 Chromium mg/L IS 3025 (Part 2) BDL(DL-0.05) Zinc mg/L 26

Opinion/Observation: Analyzed parameters in above tested sample As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified.

For SKYLAB ANALYTICAL LANGRATORY

Authorized Signatory

Sr. Analyst

END OF REPORT

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202. CFC-3, Asmeeta Texpa, Addl.Kalyan-Bhiwandi Industrial Area, MIDC, Village Kon, Tal. Bhiwandi, Dist., Thane, Maharashtra, INDIA. Pincode-421311.

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ULR:TC5150240000000035F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-035)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-035)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE :02/05/2024

SAMPLE RECEIPT DATE :03/05/2024 ANALYSIS START DATE :03/05/2024

ANALYSIS COMPLETE DATE :07/05/2024

GROUND WATER ANALYSIS

LOCATION : Palsula - (Wani North Area) Well No: WN28

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	189.09	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	. 5	15	IS 3025 (Part 4)
3	Chloride	mg/L	66.51	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	59.2	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.54	1,0	1.5	IS 3025 (Part 60)
7:	Metal-Magnesium	mg/L	31.10	30	100	IS 3025 (Part 46)
8	Nitrate .	mg/L	3.86	45	No Relaxation	IS 3025 (Part 34)
9	Odour	199	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pН	12	7.21	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	29.06	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	627	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14.	Hardness (total)	mg/L	276	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/l.	BDL(DL- 0.02)	0.03	0.2	15 3025 (Part 2)
17	Boron as B	mg/L	0.07	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	15 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.09	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	15 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	15 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	15 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	BDL(DL-0.05)	5	15	15 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Magnesium , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

For SKYLAB ANALYTIC

- WELLINGTEN

Sr. Analyst

Authorized Signato

END OF REPORT

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 A repermissible limit in absence of an alternate source for drinking water.
 Total is equivalent to 'apm' & 801. Below detection limit.
 DL DL Indicates detection limit of instrument /method and shall be considered as 'absent.

202, CFC-3, Asmeeta Texpa, Addl. Kalyan-Bhiwandi Industrial Area, MiDC, Village Kon, Tal. Bhiwandi, Dist, Thane, Maharashtra, INDIA. Pincode-421311.





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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-006)

REPORT DATE : 06/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-006)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE SAMPLE RECEIPT DATE

:01/05/2024 :02/05/2024

ANALYSIS START DATE :02/05/2024 GROUND WATER ANALYSIS

LOCATION : Mohorli - (Wani North Area) Well No.: WN34

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. Na.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	216.02	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	15 3025 (Part 4)
3	Chloride	mg/L	138.02	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	148.06	75	200	15 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.51	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	26.73	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	2.13	45	No Relaxation	IS 3025 (Part 34)
9	Odour	- M. C.	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	W	7.83	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	18.33	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	849	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	414	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	15 3025 (Part 2)
17	Boron as B	mg/L	0.05	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	rng/L	BDL(DL- 0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.44	1.0	No Relaxation	15 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	0.05	0.1	0.3	IS 3025 (Part 2)
	A CONTRACTOR OF THE PROPERTY O	77.77			The second section of the second second	Committee and the second state of the second

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity ,Calcium ,TDS, Hardness(total) are Exceeds acceptable limit, however, the result is within permissible limit.

0.02

0.01

0.05

BDL(Dt-0.02)

BDL (DL-0.01)

BOL(DL-0.05)

Verified by

Sr. Analy

Metal-Nickel

Metal-Selenium

Chromium

Zinc

23

24

25

For SKYLAB ANALYHUAL LABORATORY

No Relaxation

No Relaxation

No Relaxation

END OF REPORT

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IS 3025 (Part 2)

IS 3025 (Part 2)

15 3025 (Part 2)

IS 3025 (Part 2)

mg/L

mg/L

mg/L

mg/L

202, CFC-3, Asmeeta Texpa, Addl Kalyan-Bhiwandi Industrial Area. MIDC, Village Kon, Tal. Bhiwandi, Dist., Thane, Maharashtra, INDIA. Pincode-421311.

Mob.: 9867577309-312 / 8422929165. Email: mails@skylabenviro.com, Website: www.skylabenviro.com

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ANALYTICAL LABORATORY

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Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

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ULR:TC5150240000000036F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO :SAL/MSP19/FMD/05/GW(24-25-036)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-036)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1.

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024

:03/05/2024

mg/L

mg/L

mg/L

mg/L

GROUND WATER ANALYSIS

LOCATION : Rajur - (Wani North Area) Well No: WN35

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

ANALYSIS COMPLETE DATE :07/05/2024 Acceptable Permissible Result Reference Method Sr. No. Test Parameter Unit Limit * Limit # IS 3025 (Part 23) 1 Alkalinity mg/L 181.25 200 600 Hazen Unit 8DL(DL-1) 5 15 IS 3025 (Part 4) Colour Chloride 246.80 250 1000 IS 3025 (Part 32) me/L 4 Calcium 75 200 15 3025 (Part 40) mg/L 58.6 Residual free chlorine (RFC) 0.47 >0.2 IS 3025 (Part 26) 5 mg/L 6 Fluoride mg/L 1.5 IS 3025 (Part 60) 1.22 IS 3025 (Part 46) 7 Metal-Magnesium mg/L 30 100 28.03 Nitrate 4.97 45 No Relaxation IS 3025 (Part 34) 8 mg/L Agreeable 9 Agreeable (\$ 3025 (Part 5) Ödour Agreeable 7,54 6.5 - 8.5 IS 3025 (Part 11) 10 pH No Relaxation Sulphate, SO4 34.86 400 200 15 3025 (Part 24) 11 img/l Total dissolved solids 2000 500 634 IS 3025 (Part 16) 17 mg/l 13 Turbidity NTU 1 1 5 (5 3025 (Part 10) 14 Hardness (total) mg/L 260 200 600 15 3025 (Part 21) 15 Metal-Arsenic mg/L 0.01 No Relaxation IS 3025 (Part 2) BDL (DL-0.01) Metal-Aluminium BDL(DL-0.02) 0.03 IS 3025 (Part 2) 16 0.2 mg/L 17 Boron as B 0.09 0.5 2.4 IS 3025 (Part 2) mg/l 18 Metal-Copper mg/L BDL(DL-0.05) 0.05 1.5 IS 3025 (Part 2) IS 3025 (Part 2) 19 Metal-Cadmium BDL(DL-0.003) 0.003 No Relaxation mg/L 20 Metal-Iron mg/L 0.09 1.0 No Relaxation IS 3025 (Part 2) 21 Metal-Lead mg/L BDL (DL-0.01) 0.01 No Relaxation (5 3025 (Part 2) 22 Metal-Manganese mg/L BDL(DL-0.05) 0.1 0.3 (S 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Residual free chlorine (RFC), TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

BDL(DL-0.02)

BDL (DL-0.01)

BDL(DL-0.05)

0.02

0.01

0.05

5

Verified by

Sr. Ariawst

Metal-Nickel

Metal-Selenium

Chromium

23

24

25

For SKYLAB ANALYTICAL LABORATORY

IS 3025 (Part 2)

(5 3025 (Part 2)

IS 3025 (Part 2)

15 3025 (Part 2)

No Relaxation

No Relaxation

No Relaxation

Authorized Signatory

END OF REPORT

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Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Covt. of India, New Delhi

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* FOOD

* TEXTILE

ULR:TC5150240000000037F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-037)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-037)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE

:03/05/2024

ANALYSIS START DATE ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

LOCATION: Don.Dongargaon - (Wani North Area) Well No: WN38

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY :1 Ltrs

:03/05/2024

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	250.56	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	15 3025 (Part 4)
3	Chloride	mg/L	87.84	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	53.6	75	200	15 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.24	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	20.41	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	3.56	45	No Relaxation	IS 3025 (Part 34)
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH		8.16	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, 504	mg/L	23.46	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	704	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	218	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.08	0.5	2.4	15 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.13	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	15 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	15 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	0.07	5	15	15 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds. acceptable limit, however, the result is within permissible limit.

Verified by

Sr. Analyst

Authorized signatory

END OF REPORT

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202, CFC-3, Asmeeta Texpa, Addl Kalyan-Bhiwandi Industrial Area, MIDC, Village Kon, Tal. Bhiwandi, Dist., Thane, Maharashtra, INDIA, Pincode-421311.

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ENVIRONMENT

FOOD

TEXTILE

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

TEST REPORT

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-038)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DAYE

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO.

: 05/GW(24-25-038)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024 :03/05/2024

ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

LOCATION: Pathri - (Wani North Area) Well No: WM40

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY : Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit*	Permissible Limit #	Reference Method
1 Alkalinity 2 Colour 3 Chloride 4 Calcium		mg/L	162.5	250	- 600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	171.11	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	39.2	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	1\$ 3025 (Part 26)
6	Fluoride	mg/L	0.13	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	18.95	-30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	2.26	45	No Relaxation	IS 3025 (Part 34)
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	-	8.37	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, 504	mg/L	16.71	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	702	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	176	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.05	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.88	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	60t (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	0.08	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012. TDS are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

For SYYLAB ANALY TORY

Sr. Analyst

Authorized 3

END OF REPORT

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ENVIRONMENT

* FOOD

. TEXTILE

ULR:TC5150240000000039F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-039)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-039)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024 :03/05/2024

GROUND WATER ANALYSIS

LOCATION :

Pisgaon - (Wani North Area) Well No: WN41

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY

: 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	220.02	200	600	15 3025 (Part 23)	
2	Colour	Hazen Unit	25	5	15	15 3025 (Part 4)	
3	Chloride	mg/L	142.22	250	1000	IS 3025 (Part 32)	
4	Calcium	mg/L	57.6	75	200	IS 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)	
-6	Fluoride	mg/L	0.43	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	21.87	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	2.68	45	No Relaxation	15 3025 (Part 34)	
9	Odour	+ (Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
10	pН		7.92	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)	
11	Sulphate, SO4	mg/L	24.60	200	400	IS 3025 (Part 24)	
12	Total dissolved solids	mg/L	611	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	234	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as B	mg/L	0.06	0.5	2.4	IS 3025 (Part 2)	
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	IS 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL- 0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.38	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	15 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	15 3025 (Part 2)	
24	Metal-Selenium	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	8DL(DL-0.05)	5	15	IS 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds. acceptable limit, however, the result is within permissible limit.

Verified by Sr. Analyst

For SKYLAB ANAL CALLABORATORY

Authorized Signatory

END OF REPORT

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ENVIRONMENT

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ULR:TC51502400000000040F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-040)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-040)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE :02/05/2024

SAMPLE RECEIPT DATE :03/05/2024

ANALYSIS START DATE :03/05/2024 :07/05/2024 ANALYSIS COMPLETE DATE

GROUND WATER ANALYSIS

LOCATION: Warud - (Wani North Area) Well No: WN45

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit [#]	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	93.75	200	600	IS 3025 (Part 23)	
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)	
3	Chloride	mg/L	92.02	250	1000	15 3025 (Part 32)	
4	Calcium	mg/L	47.2	75	200	IS 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)	
6	Fluoride	mg/L	0.19	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	20,41	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	3.98	45	No Relaxation	IS 3025 (Part 34)	
9	Odour	2	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
10	pH	(4)	7.81	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)	
11	Sulphate, SO4	mg/L	20.61	200	400	IS 3025 (Part 24)	
12	Total dissolved solids	mg/L	489	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	192	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	mg/L	8DL (DL-0.01)	0.01	No Relaxation	15 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as B	mg/L	0.06	0.5	2.4	15 3025 (Part 2)	
18	Metal-Copper	mg/L	8DL(DL-0.05)	0.05	1.5	15 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.38	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	8DL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	BDL(DL-0.05)	5	15	IS 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012, are within limit, acceptable limit, apermissible limit.

Verified by

Sr. Analyst

FOR SKYLAB ANALYTICAL LABORATORY

Authorized Signator

END OF REPORT

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SALAC24230916003

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REPORT NO

REF DATE

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:SAL/MSP19/FMD/05/GW(24-25-041)

ULR:TC5150240000000041F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

SAMPLING DATE

SAMPLE TYPE:

GROUND WATER ANALYSIS

: NA

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

Gawrala - (Wani North Area) Well No: WN46

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY : Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

SAMPLE RECEIPT DATE

SAMPLE REGISTRATION NO.

:02/05/2024 :03/05/2024

ANALYSIS START DATE

:03/05/2024

: 05/GW(24-25-041)

ANALYSIS COMPLETE DATE

:07/05/2024

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	112.5	200	600	is 3025 (Part 23)	
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)	
3	Chloride	mg/L	129.67	250	1000	IS 3025 (Part 32)	
4	Calcium	mg/L	64.8	75	200	IS 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)	
6	Fluoride	mg/L	0.61	1.0	1.5	(S 3025 (Part 60)	
7	Metal-Magnesium	mg/L	29.64	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	3.07	45	No Relaxation	IS 3025 (Part 34)	
9	Odour	2	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
10	pH	2	7.31	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)	
11	Sulphate, 504	mg/L	27.92	200	400	15 3025 (Part 24)	
12	Total dissolved solids	mg/L	613	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	284	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	rng/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as B	mg/L	0.07	0.5	2.4	15 3025 (Part 2)	
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	(5 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL- 0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.23	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	8DL (DL-0.01)	0.01	No Relaxation	15 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	15 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL{DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BOL (DL-0.01)	0.01	No Relaxation	15 3025 (Part 2)	
25	Chromium	mg/L	BDL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	BDL(DL-0.05)	5	15	IS 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

Sr. Analyst

For SKYLAB ANALYTICAL LABORATORY

Authorized Signatory

END OF REPORT

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ENVIRONMENT

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ULR:TC5150240000000042F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-042)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-042)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE

:03/05/2024

ANALYSIS START DATE ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

Neta - (Wani North Area) Well No: WN47 LOCATION:

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr.Kartik Shrivas-Anacon Laboratory

: 1 Ltrs

:03/05/2024 SAMPLE QUANTITY

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit #	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	131.25	200	600	15 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	100.39	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	53.6	75	200	IS 3025 (Part 40)
5.	Residual free chlorine (RFC)	mg/t,	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.52	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	27.70	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	3.03	45	No Relaxation	IS 302S (Part 34)
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH	92	7.78	6.5 - 8.5	No Relaxation	15 3025 (Part 11)
11	Sulphate, 504	mg/L	25.26	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	593	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	248	200	600	15 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL [DL-0.01]	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	15 3025 (Part 2)
17	Boron as B	mg/L	0.06	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	8DL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.42	1.0	No Relaxation	15 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BOL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	0.21	5.	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

For SKYLAB ANALYT

Sr. Analyst

Authorized Signatury

END OF REPORT

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SALAC24230916006





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ULR:TC5150240000000043F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-043)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-043)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024

ANALYSIS COMPLETE DATE

:03/05/2024 :07/05/2024 GROUND WATER ANALYSIS

LOCATION: Jharpat - (Wani North Area) Well No: WN48

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr.Kartik Shrivas-Anacon Laboratory

: 1 Ltrs

SAMPLE QUANTITY

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method
1	Alkalinity	mg/L	150	200	600	IS 3025 (Part 23)
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)
3	Chloride	mg/L	117.12	250	1000	IS 3025 (Part 32)
4	Calcium	mg/L	59.2	75	200	IS 3025 (Part 40)
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)
6	Fluoride	mg/L	0.57	1.0	1.5	IS 3025 (Part 60)
7	Metal-Magnesium	mg/L	28,67	30	100	IS 3025 (Part 46)
8	Nitrate	mg/L	3.59	45	No Relaxation	IS 3025 (Part 34)
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
10	pH		7.47	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)
11	Sulphate, SO4	mg/L	26.78	200	400	IS 3025 (Part 24)
12	Total dissolved solids	mg/L	607	500	2000	IS 3025 (Part 16)
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)
14	Hardness (total)	mg/L	266	200	600	IS 3025 (Part 21)
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)
17	Boron as B	mg/L	0.07	0.5	2.4	IS 3025 (Part 2)
18	Metal-Copper	mg/L	BDL(DL- 0.05)	0.05	1.5	IS 3025 (Part 2)
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)
20	Metal-Iron	mg/L	0.31	1.0	No Relaxation	IS 3025 (Part 2)
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	IS 3025 (Part 2)
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)
26	Zinc	mg/L	0.19	5	15	IS 3025 (Part 2)

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 TD5, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

FOR SKYLAB ANALYTICAL LABORATORY

Sr. Aparyst

Authorized Signatory

END OF REPORT

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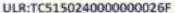
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TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-026)

REPORT DATE : 06/05/2024

CUSTOMER REF : Verbal

REF DATE

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO.

: 05/GW(24-25-026)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:01/05/2024 :02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:02/05/2024

ANALYSIS COMPLETE DATE

:06/05/2024

GROUND WATER ANALYSIS

LOCATION : Ganeshpur - (Wani North Area) Well No: WN54

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

: 1 Ltrs

SAMPLE QUANTITY

Sr. Na.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	220.64	200	600	IS 3025 (Part 23)	
1 Alkalinity 2 Colour 3 Chloride 4 Calcium		Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)	
3	Chloride	mg/L	140.2	250	1000	15 3025 (Part 32)	
4	Calcium	mg/L	42.4	75	200	IS 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)	
6	Fluoride	mg/L	0.13	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	20.41	30	100	I\$ 3025 (Part 46)	
8	Nitrate	mg/L	3.28	45	No Relaxation	(5 3025 (Part 34)	
9	Odour	+	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
10	pH	S4	8.31	6.5 - 8.5	No Relaxation	15 3025 (Part 11)	
11	Sulphate, 504	mg/L	18.23	200	400	15 3025 (Part 24)	
12	Total dissolved solids	mg/L	740	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	320	200	600	15 3025 (Part 21)	
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as B	mg/L	0.04	0.5	2.4	IS 3025 (Part 2)	
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL- 0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.11	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	BOL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	0.05	5	15	15 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity , TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

FOR SKYLAB ANALYTICAL LABORATORY

Sr. Analys

Authorized Signatory

END OF REPORT

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ULR:TC51502400000000044F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Areal

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-044)

REPORT DATE : 07/05/2024

CUSTOMER REF: Verbal

REF DATE

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-044)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE

:03/05/2024 :03/05/2024

ANALYSIS START DATE ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

Nimbala - (Wani North Area) Well No: WN55

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1 Alƙalinity 2 Colour 3 Chloride 4 Calcium		mg/L	181.25	200	600	IS 3025 (Part 23)	
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)	
3	Chloride	mg/L	175.69	250	1000	IS 3025 (Part 32)	
4	Calcium	mg/L	74.4	75	200	15 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	BDL(DL- 0.1)	>0.2	1	IS 3025 (Part 26)	
6	Fluoride	mg/L	0.94	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	41.31	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	5.22	45	No Relaxation	IS 3025 (Part 34)	
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
10	pH		8.11	6.5 - 8.5	No Relaxation	15 3025 (Part 11)	
11	Sulphate, SO4	mg/L	28.49	200	400	IS 3025 (Part 24)	
12	Total dissolved solids	mg/L	783	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	356	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as B	mg/L	0.06	0.5	2.4	IS 3025 (Part 2)	
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	(5 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.14	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	0.06	5	15	IS 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Magnesium ,TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by Sr. Analyst

For SKYLAB ANALYTICAE LABORATORY

Authoriz

END OF REPORT

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ULR:TC51502400000000008F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO :SAL/N

:SAL/MSP19/FMD/05/GW(24-25-008)

REPORT DATE : 06/05/2024

CUSTOMER REF : Verbal

REF DATE : NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-008)

SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE :01/05/2024

SAMPLE RECEIPT DATE :02/05/2024
ANALYSIS START DATE :02/05/2024
ANALYSIS COMPLETE DATE :06/05/2024

GROUND WATER ANALYSIS

LOCATION : Anantpur - (Wani North Area) Well No.: WN57A

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

05/2024 SAMPLE QUANTITY

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	242.35	200	600	IS 3025 (Part 23)	
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)	
3	Chloride	mg/L	180.06	250	1000	15 3025 (Part 32)	
4	Calcium	mg/L	164	75	200	IS 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	BDL(DL-0.1)	>0.2	1	IS 3025 (Part 26)	
6	Fluoride	mg/L	0.67	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	12.02	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	4.39	45	No Relaxation	IS 3025 (Part 34)	
9	Odour		Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
10	pH	4.	8.03	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)	
11	Sulphate, SO4	mg/L	19.18	200	400	IS 3025 (Part 24)	
12	Total dissolved solids	mg/L	924	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	432	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as 8	mg/L	0.07	0.5	2.4	IS 3025 (Part 2)	
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.37	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL(DL- 0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	BDL(DL- 0.05)	5	15	IS 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012 Alkalinity ,Calcium , TDS, Hardness(total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

FOR SKYLAB ANALYTICAL LARGRATORY

Sr. Anadyst

Authorized Signatory

END OF REPORT

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Mob.: 9867577309-312 / 8422929165. Email: mails@skylabenviro.com, Website: www.skylabenviro.com

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ULR:TC51502400000000045F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

REPORT NO

:SAL/MSP19/FMD/05/GW(24-25-045)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-045)

SAMPLING PLAN& METHOD NO.: IS 3025 Part 1 SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE ANALYSIS START DATE

:03/05/2024 :03/05/2024

ANALYSIS COMPLETE DATE

:07/05/2024

GROUND WATER ANALYSIS

Goraj - (Wani North Area) Well No: WN95 LOCATION :

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	193.75	200	600	IS 3025 (Part 23)	
2	Colour	Hazen Unit	BDL(DL-1)	5	15	IS 3025 (Part 4)	
3	Chloride	mg/L	35.13	250	1000	IS 3025 (Part 32)	
4	Calcium	mg/L	36.8	75	200	15 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	8DL(DL-0.1)	>0.2	1	15 3025 (Part 26)	
6	Fluoride	mg/L	BDL(DL-0.1)	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	15.06	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	3.06	45	No Relaxation	IS 3025 (Part 34)	
9	Odour	- 1	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) IS 3025 (Part 11)	
10	pH	12	8.55	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)	
11	Sulphate, SO4	mg/L	17.66	200	400	15 3025 (Part 24)	
12	Total dissolved solids	mg/L	373	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	BDL(DL- 0.1)	1	5	15 3025 (Part 10)	
14	Hardness (total)	mg/L	154	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	mg/L	BOL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL- 0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as 8	mg/L	0.04	0.5	2.4	IS 3025 (Part 2)	
18	Metal-Copper	mg/L	BDL(DL-0.05)	0.05	1.5	IS 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	IS 3025 (Part 2)	
20	Metal-Iron	mg/L	0.15	1.0	No Relaxation	IS 3025 (Part 2)	
21	Metal-Lead	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL- 0.05)	0.1	0.3	IS 3025 (Part 2)	
23	Metal-Nickel	mg/L	BDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	BDL(DL- 0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	BDL(DL- 0.05)	5	15	15 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample. As per IS 10500: 2012, are within limit, acceptable limit & permissible limit,

Verified by St. Applyst

For SKYLAB ANALY

Authorized Signatory

END OF REPORT

MEN 1. This report reflects findings only for the above sample tested/monitored and only for time and place of monitoring/testing. 2. This report is confidential, cannot be reproduced in part or full without permission of SEYLAB Analytical Laboratory 3. Any attempt of forgery or misleading use of this report of any person of person etc. will struct suitable legal action against them by Skylab Analytical Laboratory. 4. #Permissible limit in absence of an alternate source for drinking water. 5. 1007 is equivalent to opm'. 6 BDL- Below detection limit, 7 Dt- Dt. Indicates detection limit of instrument /method and shall be considered as 'absent.

202, CFC-3, Asmeeta Texpa, Addl.Kalyan-Bhiwandi Industrial Area, MIDC, Village Kon, Tal. Bhiwandi, Dist, Thane, Maharashtra, INDIA. Pincode-421311.

Mob.: 9867577309-312 / 8422929165. Email: mails@skytabenviro.com, Website: www.skytabenviro.com SKYLAB is always subject to improvement. For better customer satisfaction, we welcome your feedback on : feedback@skylabenviro.com

SALAC24230916008





Accredited by NABL as per ISO/IEC 17025:2017 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Recognized by Ministry of Environment, Forest & Climate Change (MoEFCC), Govt. of India, New Delhi

ENVIRONMENT

FOOD

- TEXTILE

ULR:TC5150240000000055F

TEST REPORT

NAME & ADDRESS OF CUSTOMER:

M/s Western Coalfields Limited (WCL)(Wani North

Area)

Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ

(M.S), 44000.

:SAL/MSP19/FMD/05/GW(24-25-055)

REPORT DATE : 07/05/2024

CUSTOMER REF : Verbal

REF DATE

: NA

SAMPLE TYPE:

SAMPLE REGISTRATION NO. : 05/GW(24-25-055) SAMPLING PLAN& METHOD NO.: 15 3025 Part 1

SAMPLING DATE

:02/05/2024

SAMPLE RECEIPT DATE **ANALYSIS START DATE**

ANALYSIS COMPLETE DATE

:03/05/2024 :03/05/2024

GROUND WATER ANALYSIS

LOCATION : Mardi -(Wani North Area) Well No: WN109

SAMPLE SPECIFICATION: Ground Water

SAMPLE COLLECTED BY: Mr. Kartik Shrivas-Anacon Laboratory

SAMPLE QUANTITY : 1 Ltrs

:07/05/2024

Sr. No.	Test Parameter	Unit	Result	Acceptable Limit *	Permissible Limit *	Reference Method	
1	Alkalinity	mg/L	87.5	200	600	IS 3025 (Part 23)	
2	Colour	Hazen Unit	BDL(DL-1)	5	15	15 3025 (Part 4)	
3	Chloride	mg/L	129.67	250	1000	IS 3025 (Part 32)	
4	Calcium	mg/L	44.8	75	200	IS 3025 (Part 40)	
5	Residual free chlorine (RFC)	mg/L	8DL(DL-0.1)	>0.2	1	15 3025 (Part 26)	
6	Fluoride	mg/L	0.48	1.0	1.5	IS 3025 (Part 60)	
7	Metal-Magnesium	mg/L	25.75	30	100	IS 3025 (Part 46)	
8	Nitrate	mg/L	3.45	45	No Relaxation	IS 3025 (Part 34)	
9	Odour	7.2	Agreeable	Agreeable	Agreeable	15 3025 (Part 5)	
10	pH	-	7.59	6.5 - 8.5	No Relaxation	IS 3025 (Part 11)	
11	Sulphate, SO4	mg/L	24.98	200	400	IS 3025 (Part 24)	
12	Total dissolved solids	mg/L	571	500	2000	IS 3025 (Part 16)	
13	Turbidity	NTU	0.1	1	5	IS 3025 (Part 10)	
14	Hardness (total)	mg/L	218	200	600	IS 3025 (Part 21)	
15	Metal-Arsenic	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
16	Metal-Aluminium	mg/L	BDL(DL-0.02)	0.03	0.2	IS 3025 (Part 2)	
17	Boron as B	mg/L	0.07	0.5	2.4	15 3025 (Part 2)	
18	Metal-Copper	mg/L	80L(DL-0.05)	0.05	1.5	15 3025 (Part 2)	
19	Metal-Cadmium	mg/L	BDL(DL-0.003)	0.003	No Relaxation	(5 3025 (Part 2)	
20	Metal-Iron	mg/L	0.24	1.0	No Relaxation	15 3025 (Part 2)	
21	Metal-Lead	mg/L	8DL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
22	Metal-Manganese	mg/L	BDL(DL-0.05)	0.1	0.3	IS 3025 (Part 2)	
23	Metal-Nickel	mg/L	SDL(DL-0.02)	0.02	No Relaxation	IS 3025 (Part 2)	
24	Metal-Selenium	mg/L	BDL (DL-0.01)	0.01	No Relaxation	IS 3025 (Part 2)	
25	Chromium	mg/L	8DL(DL-0.05)	0.05	No Relaxation	IS 3025 (Part 2)	
26	Zinc	mg/L	8DL(DL-0.05)	5	15	IS 3025 (Part 2)	

Opinion/Observation: Analyzed parameters in above tested sample As per IS 10500: 2012, TDS, Hardness (total) are Exceeds acceptable limit, however, the result is within permissible limit.

Verified by

For SKYLAB ANALY

Sr. Analyst

Authorized Signatory

END OF REPORT

 This report reflects findings only for the above sample tested/monitored and only for time and place of monitoring/testing.
 This report reflects findings only for the above sample tested/monitored and only for time and place of monitoring/testing. produced in part or full without permission of SKYLA5 Analytical Laboratory, 3. Any attempt of forgery or misleading use of this report by any strainforgament on etc. will ttract suitable legal action against them by Skylab Analytical Laboratory. 4, #Permissible limit in absence of an alternate source for drinking water a may if is equivalent to opm' 6 SOL- Below detection limit, 7 OL- DL indicates detection limit of instrument /method and shall be considered as 'absent,

202, CFC-3, Asmeeta Texpa, Addl.Kalyan-Bhiwandi Industrial Area, MIDC, Village Kon, Tal. Bhiwandi, Dist. Thane, Maharashtra, INDIA. Pincode-421311.

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Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number

MPCB-ENVIRONMENT STATEMENT-0000073484

Submitted Date

28-09-2024

PART A

Company Information

Company Name

M/s Western Coalfields Limited, Rajur Underground Coal Mine

Address

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

Plot no

168

Capital Investment (In lakhs)

4817.6

Pincode 445304

Telephone Number

9112330975

9112330975

Region

SRO-Chandrapur

Last Environmental statement

submitted online

ves

Consent Valid Upto

2025-04-30

Industry Category Primary (STC Code) & Secondary (STC Code)

Application UAN number

_

Taluka

Wani

Scale L.S.I.

Person Name

Syed Nazimuddin

Fax Number

07239241357

Industry Category

Red

Consent Number

Format1.0/APAE Section/UAN No.0000163019/CR/2310000941

Establishment Year

1973

Village

Rajur

City WANI

Designation

Sub Area Manager, Ghonsa Sub Area

Email

rajursubareawcl@gmail.com

Industry Type

R35 Mining and ore beneficiation

Consent Issue Date

2023-10-12

Date of last environment statement

submitted

Sep 22 2023 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMcoal0.210.055MT/A

By-product Information

By Product Name Consent Quantity Actual Quantity UOM
- 0 Ton/Y

Part-B (Water & Raw Material Consumption)

Water Consump	nption in m3/day	Consont Ou	antity in m3/d	av	Actual Quantit	v in m3/da	,		
Process	ion for	0.00	ancity in m5/u	ау	0.00	y III IIIS/uay	,		
Cooling		15309.00			100.00				
Domestic		1053.00			353.00				
All others		0.00			0.00				
Total		16362.00			453.00				
2) Effluent Gene	ration in CMD / MLD								
Particulars			Consent Qua	antity	Actual Quant	ity	UOM		
Daily Trade Effluer	nt (Mine Discharge)		13956		13956		CMD		
	Process Water Consum	ption (cubic meter of							
Name of Product	er unit of product)		Durin	g the Previo	us Durina th	e current	UON		
Name of Froduct	.s (Floudetion)			ial Year	Financial		001		
Coal (Cubic Meter	per day/Tonnes)		3.104		2.976		CMD		
3) Raw Material	Consumption (Consum	ption of raw material							
per unit of produ	ıct)								
lame of Raw Materials			During the Pa financial Yea		During the curl Financial year	rent (UOM		
Explosives (Kg/Tor	nnes)		0.4505		0.414	Kg/Annu			
4) Fuel Consump	otion								
Fuel Name		Consen	nt quantity	Actual Quantity		UOM			
High Speed diesel	(Litre)	0		0		KL/A			
Part-C									
Pollution discha	rged to environment/ur	nit of output (Paramet	ter as specifie	d in the cons	sent issued)				
[A] Water				_					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pol discharged(Mg/Lit) E PH,Temp,Colour Concentration		from pres	s with reasons	Standard	Reaso		
-	0	0		-		-	-		
[B] Air (Stack) Pollutants Detai	Pollutants discharged (kL/day)	Concentration of Podischarged(Mg/NM		from pres standards	with reasons		_		
	Quantity	Concentration		%variatio	n	Standard	Reaso		
	0	0		_					

HAZARDOUS WASTES
1) From Process

Hazardous Waste Type Total During Previous Financial year

Total During Current Financial year

UOM Ton/Y

0	ste Type	0	rieviousi	inancial year	0	ng Current Financia	ii yeui	UOM Ton/Y
Part-E								
SOLID WASTES	-							
L) From Process Non Hazardous Waste Type Total Duri			uring Previous Financial year			Total During Current Financial year 0		
2) From Polluti			During Pr	evious Financia	l vear Total	During Current Fin	ancial year	UOM
Non Hazardous Waste Type -		0	Total During Previous Financial year 0			nr Total During Current Financial year 0		
3) Quantity Red	cycled or Re-	utilized within	the					
Waste Type				otal During Pre ear	vious Financial	Total During Curre	ent Financial	UOM
0			0			0		Ton/
Please specify				ntration and qu		rdous as well as sol	id wastes and	<u>.</u>
Please specify	sal practice ac	dopted for bot	th these ca		ites.	rdous as well as sol Concentration of Ha		_
1) Hazardous V Type of Hazard 0 2) Solid Waste	sal practice ad Vaste Ious Waste G	dopted for bot	Qty of	tegories of was Hazardous Was	ste UOM Ton/Y	Concentration of H	azardous Wa	
Please specify indicate dispose 1) Hazardous V Type of Hazard	sal practice ad Vaste Ious Waste G	dopted for bot	Qty of	ategories of was	ste UOM		azardous Wa	
Please specify indicate disposed indicate disposed in the specific	sal practice ad Vaste Ious Waste G	dopted for bot	Qty of Qty o	tegories of was Hazardous Was	ste UOM Ton/Y UOM	Concentration of H	azardous Wa	_
Please specify indicate disposed indicate disposed in the specify indicate disposed in the specific indicate disposed in the specific indicate disposed in the specific indicate disposed in the specific indicate indicate indicate in the specific indicate in the specific indicate indicate indicate indicate in the specific indic	Vaste Vaste Vaste General	enerated	Qty of 0 Qty of 0	Hazardous Was	ste UOM Ton/Y UOM Ton/Y	Concentration of H	azardous Was Solid Waste	ste
Please specify indicate disposed indicate dispos	Vaste Vaste Vaste General	enerated ted trol measures in Reduct Fuel &	Qty of 0 Qty of 0 taken on of taken on of Solvent mption	Hazardous Was	ste UOM Ton/Y UOM Ton/Y	Concentration of Ho - Concentration of S	azardous Was Solid Waste	ste of in
Please specify indicate disposed indicate dispos	Vaste Vaste Vaste Vaste General	enerated ted trol measures in Reduct Fuel & on Consur	Qty of 0 Qty of 0 taken on of taken on of Solvent mption	tegories of was Hazardous Was of Solid Waste conservation of Reduction in Raw Material	tes. Ste UOM Ton/Y UOM Ton/Y natural resource Reduction in Power Consumption	Concentration of Har- Concentration of S - es and consequent Capital Investment(in	azardous Was Solid Waste ly on the cost Reduction Maintenan	ste of in

Environmental Protection

Measures

Capital Investment

(Lacks) 0

2) From Pollution Control Facilities

[A] Investment made during the period of Environmental

Detail of measures for Environmental Protection

Statement

[B] Investment Proposed for next Year

Miscellaneous Environment Protection activities

Detail of measures for Environmental Protection Environmental Protection Measures

Capital Investment (Lacks)

10

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Name & Designation

Syed Nazimuddin, Sub Area Manager, Ghonsa Sub Area

IIAN No:

MPCB-ENVIRONMENT_STATEMENT-0000073484

Submitted On:

28-09-2024