WESTERN COALFIELDS LIMITED

OFFICE OF THE SUB AREA MANAGER
BALLARPUR SUB AREA, BALLARPUR AREA

Ref No. WCL/BA/AGM/ENV/ 105 Date 25/11 /2025

To
Addl. Principal Chief Conservator of Forests,
Ministry of Environment, Forest & Climate Change
Integrated Regional Office, Ground Floor,
East Wing, "New Secretariat Building", Civil Lines,
Nagpur, Maharashtra- 440001

Sub: - Submission of Six-monthly EC Compliance Report in respect of **BALLARPUR COLLIERY 3&4 PITS**, Ballarpur Area, WCL for the period from 1st April 2025 to 30th September 2025.

Respected Sir,

Please find enclosed herewith the Six-Monthly EC Compliance Report in respect of **BALLARPUR COLLIERY 3&4 PITS**, Ballarpur Area for the period from 1st April 2025 to 30th September 2025.

EC NO: J-11015/31/2009-IA. II(M) Dated: - 22.07.2009

Thanking you.

Encl. Environment Compliance Report

Yours Faithfully,

Sub Area Manager
Ballarpur Sub Area

Copy To,

1. **Regional Officer, MPCB Chandrapur.**
2. **AGM, Ballarpur Area , WCL**
3. **The General Manager (Env) WCL, Nagpur**
4. **GM (Environment), CMPDIL RI – IV, Nagpur**
5. **Area Nodal Officer (Env), Wani Area.**
6. **Office Copy**

No.J-11015/31/2009-IA.II(M)
Government of India
Ministry of Environment & Forests

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

Dated: 22nd July 2009

To
M/s Western Coalfields Ltd.,
Coal Estate, Civil Lines,
NAGPUR – 440001.

Sub: Ballarpur Underground Coal Mine Expansion Project (expansion from 0.60 MTPA to 0.76 MTPA of M/s Western Coalfields Ltd. (WCL), located near village and Tehsil Ballarpur, District Chandrapur, Maharashtra - environmental clearance – reg.

Sir,

This has reference to letter No. 43011/125/2008-CPAM dated 12.01.2009 of Ministry of Coal forwarding your application seeking environmental clearance under Section 7 (ii) of the EIA Notification 2006 and subsequent letter dated 15.07.2009 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. It is noted that the application is for seeking environmental clearance under section 7 (ii) for expansion in production in the existing Ballarpur Underground Coal Mine Project from 0.60 million tonnes per annum (MTPA) to 0.76 MTPA with no change in lease area of 1619.66 ha. The project was granted EC on 21.03.2007 for 0.60 MTPA production capacity over the existing ML area of 1619.66 ha. The project consists of three operating underground mines – Ballarpur 3 & 4 Pit, Mana Incline and Nandgaon, of which the production capacity of two of the mines Mana Incline and Nandgaon is to be increased from 0.15 MTPA to 0.20 MTPA and 0.19 MTPA to 0.30 MTPA respectively. Of the total lease area of 1619.66 ha, of which 1223.02 ha is agricultural land, 123.71 ha is forestland and 272.93 ha is wasteland. Forestry clearance has been applied for. The project does not involve R&R. There area no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 15 km buffer zone. The project does not involve modification of the natural drainage. Mining will be underground by Bord & Pillar method involving hydraulic sand stowing. The expansion project does not involve change in land requirement, mining technology, displacement, manpower, and no fresh source of water. Mineral transportation of 2333 TPD of coal is by trolley from mine face to surface to CHP located near the Incline mouth and thereafter by road (973 TPD) and by rail (1360 TPD) from railway siding located at a distance of 2 km. Ultimate working depth of the mine is 265 m below ground level (bgl). Detailed subsidence prediction Study has been carried out. Mining has intersected water table, which is in the range of 3.2-14.10 m bgl during pre-monsoon and 1.0-4.50m during post-monsoon. Peak water requirement is 9529 m3/d, which is to be met from mine water discharge. Balance life of the mine at the proposed rated capacity is 17 years. Public Hearing was held on 26.10.2005 for 0.60 MTPA capacity project. The project has been approved by M/s WCL on 05.11.2008. The capital investment for the expansion project is 15.1835 crores.

2. The Ministry of Environment & Forests hereby accords environmental clearance for the above-mentioned Ballarpur Underground Coalmine Expansion Project of M/s WCL for expansion in production of coal from 0.60 MTPA to 0.76 MTPA rated capacity by increasing production in two of the mines - Mana Incline and Nandgaon from 0.15 MTPA to 0.20 MTPA and 0.19 MTPA to 0.30 MTPA respectively within the existing total lease area of 1619.66 ha under Section 7 (ii) of the Environmental Impact Assessment Notification, 2006 and subsequent amendments and Circulars thereto and subject to conditions specified below:

A. Specific Conditions

(i) No mining shall be undertaken in forestland until forestry clearance has been obtained.

(ii) Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.

(iii) High root density tree species shall be selected and planted over areas likely to be affected by subsidence.

(iv) Coal extraction shall also be optimised in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No coal depillaring shall be undertaken below areas of habitation.

(v) Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.

(vi) Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over an above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.

(vii) Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Mobile sprinklers shall be provided in major haul roads and with high levels of SPM/RSPM.

(viii) Major approach roads shall be black topped and properly maintained. A 3-tier plantation shall be developed along all major roads, near CHP, coal bunker, infrastructure. A mist spray water sprinkling system shall be installed at the CHP and at transfer points

(ix) Drills shall be wet operated only to avoid fugitive dust emissions.

(x) 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 area, etc, by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.

(xi) Regular monitoring of groundwater level and quality shall be carried out by establishing a network of exiting wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and tot eh Central Pollution Control Board quarterly within one month of monitoring.

(xii) The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring of water table indicates

2

a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.

(xiii) Mine discharge water particularly TDS shall be treated to conform to prescribed levels before discharge into the natural environment.

(xiv) 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.

(xv) 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.

(xvi) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests within 6 months of grant of environmental clearance.

(xvii) The project proponent shall undertake a socio-economic survey for identifying and taking up need based specific socio-economic activities/ programmes/ schemes, which are required in the area. Monitoring of the impacts of activities under CSR shall be carried out periodically. Educational centres shall be established in the area to create awareness and for organising workshops, etc.

B. General Conditions

(i) No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.

(ii) No change in the calendar plan including quantum of mineral coal and waste shall be made.

(iii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RSPM, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in SPM and RSPM etc. shall be carried out at least one in six months.

(iv) Data on ambient air quality (SPM, RSPM, SO2 and NOx and heavy metals such as Hg, As, Ni, Cr, etc) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EP Rules, 1986 shall be furnished as part of the compliance report.

(v) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.

(vi) Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under

GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.

(vii) Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.

(viii) Appropriate measures shall be taken to avoid hazards of fire and explosions due to methane gas.

(ix) Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.

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

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

(xi) A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.

(xii) The funds earmarked for environmental protection measures shall e kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.

(xiii) The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in.

(xiv) A copy of the environmental clearance letter shall be marked to concerned Panchayat/ Zila Parishad/Municipal Corporation or Urban Local Body/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.

(xv) A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.

(xvi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water,

noise and soil) shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.

(xvii) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.

(xviii) The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent tot the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail.

3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

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

5. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

(Dr.T.Chandini)
Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg., Madam Cama Road, MUMBAI – 400032.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arear Colony, Bhopal – 462016.
4. Chairman, 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.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. Shri M.K. Shukla, CGM, Coal India Limited, SCOPE Minar, Core-I, 4t Floor, Vikas Marg, Laxminagar, New Delhi.
8. District Collector, Chandrapur, Government of Maharashtra.
9. Monitoring File 10. Guard File 11. Record File.

EXPANSION OF BALLARPUR COLLIERY 3&4 PITS COAL MINE.

MOEF Clearance Letter No.J- 11015 /31 / 2009 – I.A.II (M) Dated. 22-07-2009.

Ballarpur Colliery 3&4 Pits Coal Mines Project (0.60 MTPA).

Sr. No.	Specific Conditions	Compliance
i)	No mining shall be undertaken in forest land until forestry clearance has been obtained.	Complied. No mining shall be undertaken in forest land until forestry clearance has been obtained.
ii)	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.	Till date we have not received any intimation regarding subsidence of surface. However, surface over and around the working area are regularly inspected and due care is taken in this regard.
iii)	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Complied. Till date 1000 nos plantation has been done.
iv)	Coal extraction shall also be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No coal depillaring shall be undertaken below areas of habitation.	Being complied.
v)	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of land owners.	Till date we have not received any intimation regarding subsidence of surface. However, surface over and around the working area are regularly inspected and due care is taken in this regard.
vi)	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas shall be constructed 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 provide adequate retention period to allow proper settling of silt material.	Permanent drain is provided around mine shaft for proper discharge of rain water and the same is cleaned before commencement of rainy season every year.

vii)	Water sprinkling system should be provided to check fugitive emissions from CHP, crushing operations, conveyor system, haulage roads, transfer points, etc.	Water is being sprinkled through 1 no (20 KL) mobile water tanker on coal transportation road. 08 nos. Sprinklers have been installed at Railway siding. 2 nos. FOG cannon have been commissioned 5 m height wind barrier is uder construction all along the railway siding.
viii)	Major approach roads shall be black topped and properly maintained. A 3 tier plantation shall be developed along all ma jor roads, near CHP, near coal bunker, infrastructure. A mist spray water sprinkling system shall be installed at CHP and at transfer points.	2.00 Km of internal roads are black topped. It is being complied. 08 nos. Sprinklers have been installed at Railway siding. 2 nos. FOG cannon have been commissioned 5 m height wind barrier is uder construction all along the railway siding.
ix)	Drills should be wet operated only.	Yes, drilling operation is being done in wet condition.
x)	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 area 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.	About 1000 (One thousand) nos. of saplings are planted near CHP of RO incline on the available vacant land.
xi)	Regular monitoring of groundwater level quality should be carried out by establishing a network of Existing Wells and construction of new piezometers. 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 to the Central Pollution Control Board quarterly within one month of monitoring.	Regular monitoring of ground water level is being carried out by M/s Anacon in the Area. Copy of report attached.
xii)	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource.	Rain water harvesting measures undertaken at manager office of Ballarpur Colliery. During summer water will be supplied to nearby

<table>
<tr><td></td><td>The project authorities should meet water requirement of nearby villages(s) in case the village wells go dry due to dewatering of mine.</td><td>villages on demand through mobile tanker.</td></tr>
<tr><td>xiii)</td><td>Mine discharge water particularly TDS shall be treated to conform to prescribed levels before discharge into natural environment.</td><td>Monitoring being done on fortnightly basis by CMPDIL. Copy of report attached for period from April 2025 to September 2025.</td></tr>
<tr><td>xiv)</td><td>Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.</td><td>Periodical medical examination is being carried out once in every five years at Area Hospital.</td></tr>
<tr><td>xv)</td><td>For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery(on a scale of 1: 5000) of core zone and buffer zone, from start of project until end shall be prepared once in 3 years and report should be submitted to MoEFCC and its concerned Regional authority.</td><td>It is an underground mine and land use pattern above groound does not change.</td></tr>
<tr><td>xvi)</td><td>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.</td><td>Not applicable at present. The final mine closure plan will be submitted to MOEF , five years in advance of actual closure.</td></tr>
<tr><td>xvii)</td><td>The project proponent shall undertake socio-economic survey for identifying and taking up need based activities required in the area.</td><td>CSR work is being done in villages nerby mine. CSR expenditure details are as follows:
<table>
<tr><th>Sr no</th><th>Year</th><th>Expenditure (Lakhs)</th></tr>
<tr><td>1</td><td>2019-20</td><td>237.35</td></tr>
<tr><td>2</td><td>2020-21</td><td>47.05</td></tr>
<tr><td>3</td><td>2021-22</td><td>2.17</td></tr>
<tr><td>4</td><td>2022-23</td><td>25.52</td></tr>
<tr><td>5</td><td>2023-24</td><td>59.05</td></tr>
<tr><td>6</td><td>2024-25</td><td>379.0</td></tr>
</table></td></tr>
</table>

B. GENERAL CONDITIONS

i	No change in mining technology & scope of working should be made without prior approval of the Ministry of Environment & Forest.	Complied.
ii	No change in calendar plan including excavation quantum of minerals coal & waste should be made.	Complied.
iii	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone of SPM,RPM,SO2and 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.	Four ambient air quality monitoring stations are - (i)Manager Office – Ballarpur UG (ii)Premises of SAM office (iii)Substation – Ballarpur OC (iv) Filter Plant/ Colony And it is in consultation with MPCB, Chandrapur. It is being monitored by CMPDIL regularly. Copy of report attached for period from April 2025 to September 2025
iv	Data on ambient air quality (SPM, RSPM, SO2 and NOx) should be regularly submitted to the Ministry including its Regional office at Bhopal and to the State Pollution Control Board. 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.	Being submitted to MOEF, Nagpur & MPCB office. Copy of report attached for period from April 2025 to September 2025 Water is being sprinkled at coal transportation road to suppress dust and water jets and sprinklers are used at CHP and coal transfer points.
v	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 earplugs/muffs.	Adequate measures are taken for control of Noise pollution. Workers engaged in blasting and drilling operations, operation of HEMM, etc are provided with ear plugs/muffs
vi	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 the May 1993 and 31 December or as amended from time to time before discharge .Oil and grease trap should	Used oil collected is being re-used for lubricating tub wheels.

	be installed before discharge of workshop effluents.	
vii	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral and stowing sand should be covered with tarpaulins and optionally loaded.	Coal transportation vehicles are covered with tarpaulins and are optimally loaded. Vehicular emissions are kept under control PUC certificate for all light & passenger vehicles are taken.
viii	Appropriate measures shall be taken to avoid hazards of fire and explosions due to methane gas.	Complied.
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.	Monitoring of environmental quality parameters is done by CMPDIL, Nagpur. There is a full-fledged NABL accredited Env. Laboratory of CMPDIL. The Monitoring is done through this laboratory at fortnightly interval. Mine has procured a portable testing kit for field monitoring of pH , TDS etc.
x	Personal 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 programmed of the workers should be undertaken periodically to observe any contractions due to exposure to dust & to take corrective measures if needed.	Protective respiratory devices are provided to workmen exposed to dust area. Workers are also regularly given training on safety and health aspects at VTC (this is the statutory requirement under mines safety act). Periodical medical examination of every worker is being done every five years in our area hospital to detect any disease so that the appropriate action can be taken up at project level.
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.	**At HQ, WCL**- The cell is headed by GM (Env) reporting to Director (Technical). The team comprises of multi-disciplinary trained executive. **At Area level** – Area General Manager heads the Environment Department assisted by GM (oprn), ANO(Envt) & 1 nos. Assistant Managers of Environment discipline. **At Unit Level**- Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level.

xii	The funds earmarked for environmental protection measures should 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.	The funds earmarked for environment protection measures are kept in seperate account and it is not used for any other purpose. Expenditure statement is shown in every six monthly compliance report sent to MoEF&CC.
xiii	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. the project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Agreed.
xiv	A copy of the environment clearance letter shall be marked to concerned panchayat / local NGO, if any from whom any suggestion /representation has been received while processing the proposal.	Copy of clearance letter sent to Panchayat& Chief Officer, Nagar parisad.
xv	State Pollution Control Board. Should display a copy of the clearance letter at the Regional Office, District Industry Center and collector's Office / Tahsildar's Office for 30 days.	Noted.
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 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	Complied. Attached.
	Failure to comply with any of the	Agreed

4	conditions above may result in withdrawal of this clearance and attract the provisions of the Environment (protection ACT1986),.	
5	The above condition will be enforced inter-alia 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.	Agreed

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24044532/4024068/4023516
Website: http://mpcb.gov.in
Email: jdair@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)
No:- Format1.0/APAE Section/UAN No.MPCB-CONSENT-0000142605/CR/2301001996

Date: 24/01/2023

To,
M/s. Western Coal Fields Ltd.,
Ballarpur Underground Colliery 3 & 4 pits,
Ballarpur Sub Area, New Ballarpur Town,
Tq. Ballarpur, Dist. Chandrapur.

Your Service is Our Duty

Sub: Renewal of consent to operate under RED/LSI Category

Ref: Earlier consent to operate granted vide No. APAE Section/UAN No.116742/CR/2201000543 dtd. 13/01/2022 valid upto 30/06/2022

Your application No.MPCB-CONSENT-0000142605 Dated 30.06.2022

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 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 30/06/2025**
2. **The capital investment of the project is Rs.43.0494 Crs. (As per C.A Certificate submitted by industry (Existing Consented CI Rs. 36.27 Cr - decreased in CI by Rs. 6.67 Cr= Rs. 43.04 Cr.))**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Coal mining on mining lease area of 1619.66 Hector	0.26	MTPA

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	2900	As per Schedule-I	(Including Mine Discharge) Maximum for dust suppression and remaining for irrigation
2.	Domestic effluent	900	As per Schedule-I	On land for gardening

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	1	Boiler	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Over Burden	0	--NA--	Back filling of mine	Back filling of mine

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for 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, GoI vide No. J-11015/31/2009-I.A.II(M) dated 22.07.2009.
11. PP shall install minimum 3 CAAQMS arrangement within 03 Months.
12. PP shall install STP within 03 months period.
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 within03 months.
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 treatment plant for mine water discharge and submit sedimentation tank design details.
18. PP shall comply conditions of NOC granted by CGWA.
19. Industry shall extend all existing BGs towards O&M of pollution control systems and towards compliance of the Consent conditions.
20. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	537000.00	MPCB-DR-12831	08/07/2022	RTGS
2	25000.00	MPCB-DR-14047	30/08/2022	NEFT

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 sedimentation tank of capacity is 2900 CMD for mine discharge treatment.

   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)	pH	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 used for spraying mine pit to the maximum extent & excess shall be used on land for gardening/irrigation

2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 900 CMD of sewage.

   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	42.00
2.	Domestic purpose	1500.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	2900.00
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/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
1	boiler	Multi Cyclone	21.00	coal 250 Kg/Hr	0.5	TPM	150 Mg/Nm^3
						SO2	60 Kg/Day

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.
3. 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
   a. 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.
6. 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 (SPM)	Annual Average	360 µg/m^3
	24 hours	500 µg/m^3
Respirable Particulate Matter (size less than 10 µm) (RPM)	Annual Average	180 µg/m^3
	24 hours	250 µg/m^3
Sulphur Dioxide (SO_2)	Annual Average	80 µg/m^3
	24 hours	120 µg/m^3
Oxides of Nitrogen as NO_x	Annual Average	80 µg/m^3
	24 hours	120 µg/m^3

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, SO_2, 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		Rs.5.0 Lakh	15 days	Provision of Sewage Treatment Plant (STP) for sewage effluent generated	3 Months	31/10/2023
2		Rs.5.0 Lakh	15 days	Provision of CAAQMS	3 Months	31/10/2023
3		Rs.5.0 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	31/10/2025

****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	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

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

SCHEDULE-IV

General Conditions:

1. 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.

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Ballarpur Ug Expn.		
Project Address:	Near Ballarpur Town, Ballarpur Area, Wardha Valley Coalfield, Wcl		
Town:	Ballarpur	Block:	Ballarpur
District:	Chandrapur	State:	Maharashtra
Pin Code:			
Communication Address:	Near Ballarpur Town, Ballarpur Area, Wardha Valley Coalfield, Wcl, Ballarpur, Chandrapur, Maharashtra - 442701		
Address of CGWB Regional Office :	Central Ground Water Board Central Region, N.s. Building, Civil Lines, Nagpur, Maharashtra - 440001		

1.	**NOC No.:**	CGWA/NOC/MIN/REN/1/2025/10910	2.	**Date of Issuence**	24/02/2025
3.	Application No.:	21-4/850/MH/MIN/2017	4.	Category: (GWRE 2024)	Safe
5.	Project Status:	Existing With Additional Ground Water Requirment	6.	NOC Type:	Renewal
7.	**Valid from:**	03/08/2023	8.	**Valid up to:**	02/08/2025

9. Ground Water Abstraction Permitted:

Fresh Water		Saline Water		Dewatering		Total	
m³/day	m³/year	m³/day	m³/year	m³/day	m³/year	m³/day	m³/year
0.00	0.00			5933.00	2165545.00	5933.00	2165545.00

10. Details of ground water abstraction /Dewatering structures

	Total Existing No						**Total Proposed No**					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Dewatering Structure*	0	0	0	0	0	2	0	0	0	0	0	2

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

11.	Ground Water Abstraction/Restoration Charges paid (Rs.):	12993270.00
12.	Environment Compensation (if applicable) paid (Rs.):	0.00

13.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers	Monitoring Mechanism		
			Manual	DWLR**	DWLR With Telemetry
	**DWLR - Digital Water Level Recorder	2	0	1	1

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

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(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

CENTRAL GROUND WATER AUTHORITY

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.

4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.

6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.

7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.

8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.

9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.

28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

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CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India)
https://cgwa-noc.gov.in

Application No,:	21-4/850/MH/MIN/2017		Date of Issuence:24/02/2025
Name of Firm:	BALLARPUR UG EXPN.		
AppType Category:	*Coal*		
Application Type:	*Mining*		
PAN/GSTIN No. of Firm/Individual:		/	

SN	Description	Amount (Rs.)
1.	Application Processing Fee	**5000.00**
2.	Ground Water Abstraction charges	**12993270.00**
3.	Ground Water Restoration charges	**0**
4.	Environmental Compensation Charges (ECRGW) *(Date From to) Days-*	
5.	Penalty for non-Compliance of NOC conditions *Condition to be mentioned*	**400000.00**
6.	Adjustment Charges	
7.	Rebate	
8.	Charges for correction/modification in the existing issued No Objection Certificate	

S.No.	Description	Rate
(i)	Change in User ID	Rs. 1000
(ii)	Change in firm Name	Rs. 5000
(iii)	Extension of No Objection Certificate	Rs. 5000
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000
(vi)	Any other items/correction etc.	Rs. 500

Rs. Rupees One Crore Thirty Three Lakh Ninty Eight Thousand Two Hundred Seventy Only	**13398270.00**

This is an system generated invoice, hence, does not require ink signed.

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
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Website: cgwa-noc.gov.in

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SAVE WATER - SAVE LIFE

Term and conditions:

i. All disputes are subject to Delhi Jurisdiction.
ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

CENTRAL GROUND WATER AUTHORITY

STRICTLY RESTRICTED
FOR COMPANY USE ONLY
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

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068

MAY 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

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

TEST REPORT NO.	RIN/TR/MAY-25/42		DATE OF ISSUE	25.06.2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)			
SAMPLE DESCRIPTION	AIR SAMPLE		SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-05-25 TO 15-06-25

MANAGER OFFICE- BALLARPUR UG		BBUA1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
07.05.2025	08.05.2025	298	187	60	20	13	Sunny / Light Breeze
21.05.2025	22.05.2025	296	180	59	19	12	Sunny / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

SUBSTATION		BBOA2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
07.05.2025	08.05.2025	255	168	52	16	10	Sunny / Light Breeze
21.05.2025	22.05.2025	257	169	49	18	14	Sunny / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

PREMISES OF SUB AREA OFFICE		BBOA3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
07.05.2025	08.05.2025	230	145	46	14	BDL	Sunny / Light Breeze
21.05.2025	22.05.2025	245	159	52	16	10	Sunny / Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

FILTER PLANT COLONY		BBUA4				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM_{10}	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	2	6	10	
02.05.2025	03.05.2025	75	33	8	BDL	Sunny / Light Breeze
03.05.2025	04.05.2025	80	42	10	BDL	Sunny / Light Breeze
09.05.2025	10.05.2025	62	28	11	BDL	Sunny / Light Breeze
10.05.2025	11.05.2025	79	41	14	BDL	Sunny / Light Breeze
16.05.2025	17.05.2025	89	42	12	BDL	Sunny / Light Breeze
17.05.2025	18.05.2025	94	48	10	BDL	Sunny / Light Breeze
23.05.2025	24.05.2025	79	36	12	BDL	Sunny / Light Breeze
24.05.2025	25.05.2025	82	40	14	BDL	Sunny / Light Breeze
28.05.2025	29.05.2025	69	30	11	BDL	Sunny / Light Breeze
29.05.2025	30.05.2025	76	38	9	BDL	Sunny / Light Breeze
NAAQS, 2009		**100**	**60**	**80**	**80**	

Analysed by

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

SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-05-25 TO 15-06-25

MINE WATER DISCHARGE:	BBUW1			
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07.05.2025	7.27	26	40	BDL
21.05.2025	7.81	26	48	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

Analysed by

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

NOISE LEVEL MONITORING DATA

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

FAN HOUSE:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'25	11.05.2025	72.9	69.8
MAY'25	28.05.2025	73.6	68.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**75**	**70**

COLONY:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'25	11.05.2025	46.7	42.6
MAY'25	28.05.2025	47.8	43.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**55**	**45**

Yogesh Pidurkar
Reviewed by

Amol Kamble
Authoriesed by

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ENVIRONMENTAL MONITORING REPORT

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APRIL 2025

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

TEST REPORT NO.	RIN/TR/APRIL-25/42		DATE OF ISSUE	25-05-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)			
SAMPLE DESCRIPTION	AIR SAMPLE		SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-04-25 TO 15-05-25

MANAGER OFFICE- BALLARPUR UG		BBUA1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
07-04-2025	08-04-2025	322	214	65	19	10	Clear sky / light breeze
21-04-2025	22-04-2025	288	198	60	22	12	Clear sky / light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

SUBSTATION		BBOA2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
07-04-2025	08-04-2025	269	166	49	16	11	Clear sky / light breeze
21-04-2025	22-04-2025	250	154	52	18	11	Clear sky / light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

PREMISES OF SUB AREA OFFICE		BBOA3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
07-04-2025	08-04-2025	255	159	42	15	10	Clear sky / light breeze
21-04-2025	22-04-2025	198	122	43	15	BDL	Clear sky / light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

FILTER PLANT COLONY		BBUA4				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM_{10}	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	2	6	10	
02-04-2025	03-04-2025	86	32	7	BDL	Clear sky / light breeze
03-04-2025	04-04-2025	74	28	8	BDL	Clear sky / light breeze
09-04-2025	10-04-2025	90	39	7	BDL	Clear sky / light breeze
10-04-2025	11-04-2025	94	43	11	BDL	Clear sky / light breeze
16-04-2025	17-04-2025	80	36	8	BDL	Clear sky / light breeze
17-04-2025	18-04-2025	82	30	9	BDL	Clear sky / light breeze
23-04-2025	24-04-2025	91	40	6	BDL	Clear sky / light breeze
24-04-2025	25-04-2025	86	33	6	BDL	Clear sky / light breeze
NAAQS, 2009		**100**	**60**	**80**	**80**	

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

SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -Part 11, TSS: IS 3025-Part 17, COD: APHA (24th Edition) 5220 C ,O&G: IS 3025-Part 39 & BOD: IS 3025 (Part 44)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-04-25 TO 15-05-25

MINE WATER DISCHARGE:	BBUW1			
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
07-04-2025	7.73	18	32	BDL
21-04-2025	7.62	22	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

Analysed by

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

NOISE LEVEL MONITORING DATA

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

FAN HOUSE:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
APRIL'25	11-04-2025	71.6	69.9
APRIL'25	25-04-2025	73.8	69.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**75**	**70**

COLONY:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
APRIL'25	11-04-2025	43.6	41.4
APRIL'25	25-04-2025	47.6	43.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**55**	**45**

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

TEST REPORT NO.	RIN/TR/JULY-25/42		DATE OF ISSUE	25-08-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)			
SAMPLE DESCRIPTION	AIR SAMPLE		SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-07-25 TO 15-08-25

MANAGER OFFICE- BALLARPUR UG		BBUA1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
06-07-2025	07-07-2025	271	188	40	14	11	CLOUDY/CALM
20-07-2025	21-07-2025	244	156	35	12	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

SUBSTATION		BBOA2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
06-07-2025	07-07-2025	287	193	49	15	12	CLOUDY/CALM
20-07-2025	21-07-2025	264	171	38	12	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

PREMISES OF SUB AREA OFFICE		BBOA3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
06-07-2025	07-07-2025	259	162	35	13	10	CLOUDY/CALM
20-07-2025	21-07-2025	211	120	31	11	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

FILTER PLANT COLONY		BBUA4				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM_{10}	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	2	6	10	
01-07-2025	02-07-2025	77	23	8	BDL	CLOUDY/CALM
02-07-2025	03-07-2025	86	28	9	BDL	CLOUDY/CALM
08-07-2025	09-07-2025	57	20	7	BDL	RAINY/CALM
09-07-2025	10-07-2025	68	22	7	BDL	RAINY/CALM
13-07-2025	14-07-2025	72	26	8	BDL	CLOUDY/CALM
14-07-2025	15-07-2025	80	27	9	BDL	CLOUDY/CALM
22-07-2025	23-07-2025	61	20	8	BDL	RAINY/CALM
23-07-2025	24-07-2025	59	18	7	BDL	RAINY/CALM
27-07-2025	28-07-2025	70	24	8	BDL	CLOUDY/CALM
28-07-2025	29-07-2025	79	26	9	BDL	CLOUDY/CALM
NAAQS, 2009		**100**	**60**	**80**	**80**	

Analysed by

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

SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-07-25 TO 15-08-25

MINE WATER DISCHARGE:	BBUW1			
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-07-2025	8.21	24	40	BDL
28-07-2025	7.79	28	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

Analysed by

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

NOISE LEVEL MONITORING DATA

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

FAN HOUSE:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'25	12-07-2025	73.7	69.8
JULY'25	28-07-2025	72.7	68.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**75**	**70**

COLONY:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'25	12-07-2025	47.4	42.5
JULY'25	28-07-2025	45.4	42.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**55**	**45**

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

TEST REPORT NO.	RIN/TR/SEPT-25/42		DATE OF ISSUE	25-10-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)			
SAMPLE DESCRIPTION	AIR SAMPLE		SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-09-25 TO 15-10-25

MANAGER OFFICE- BALLARPUR UG		BBUA1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
05-09-2025	06-09-2025	287	199	49	16	13	CLOUDY/CALM
19-09-2025	20-09-2025	231	145	37	12	10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

SUBSTATION		BBOA2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
05-09-2025	06-09-2025	275	182	47	16	12	CLOUDY/CALM
19-09-2025	20-09-2025	255	178	30	13	10	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

PREMISES OF SUB AREA OFFICE		BBOA3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
05-09-2025	06-09-2025	239	153	35	13	10	CLOUDY/CALM
19-09-2025	20-09-2025	192	101	27	11	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

FILTER PLANT COLONY		BBUA4				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM_{10}	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	2	6	10	
01-09-2025	02-09-2025	67	19	7	BDL	RAINY/CALM
02-09-2025	03-09-2025	74	23	8	BDL	RAINY/CALM
08-09-2025	09-09-2025	60	17	7	BDL	RAINY/CALM
09-09-2025	10-09-2025	81	28	9	BDL	CLOUDY/CALM
13-09-2025	14-09-2025	66	18	7	BDL	RAINY/CALM
16-09-2025	17-09-2025	78	22	7	BDL	CLOUDY/CALM
21-09-2025	22-09-2025	70	20	6	BDL	CLOUDY/CALM
22-09-2025	23-09-2025	79	27	8	BDL	CLOUDY/CALM
27-09-2025	28-09-2025	67	22	6	BDL	RAINY/CALM
28-09-2025	29-09-2025	59	17	6	BDL	RAINY/CALM
NAAQS, 2009		**100**	**60**	**80**	**80**	

Analysed by

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

SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-09-25 TO 15-10-25

MINE WATER DISCHARGE:	BBUW1			
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
06-09-2025	8.39	26	40	BDL
19-09-2025	8.73	20	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

Analysed by

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

NOISE LEVEL MONITORING DATA

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

FAN HOUSE:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'25	12-09-2025	74.5	71.7
SEPT'25	26-09-2025	73.7	71.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**75**	**70**

COLONY:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'25	12-09-2025	45.6	42.5
SEPT'25	26-09-2025	45.4	42.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**55**	**45**

Yogesh Pidurkar
Reviewed by

Amol Kamble
Authoriesed by

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ENVIRONMENTAL MONITORING REPORT

BALLARPUR UG

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068

AUGUST 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

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

TEST REPORT NO.	RIN/TR/AUG-25/42		DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR			
TEST REQUIRED	SPM: IS 5182 (Part-4), PM-10: IS-5182 (Part 23), PM2.5: IS 5182 (Part 24), NO2: IS 5182 (Part-06), SO2:IS 5182 (Part-2)			
SAMPLE DESCRIPTION	AIR SAMPLE		SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:			16-08-25 TO 15-09-25

MANAGER OFFICE- BALLARPUR UG		BBUA1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
03-08-2025	04-08-2025	288	201	36	13	10	CLOUDY/CALM
17-08-2025	18-08-2025	261	178	30	11	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

SUBSTATION		BBOA2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
03-08-2025	04-08-2025	271	188	42	14	11	CLOUDY/CALM
17-08-2025	18-08-2025	232	153	34	11	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

PREMISES OF SUB AREA OFFICE		BBOA3					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	**PM_{10}**	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	5	2	6	10	
03-08-2025	04-08-2025	266	187	33	12	10	CLOUDY/CALM
17-08-2025	18-08-2025	227	134	29	11	BDL	CLOUDY/CALM
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25TH September 2000		**600**	**300**	**-**	**120**	**120**	

FILTER PLANT COLONY		BBUA4				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m^3)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM_{10}	**$PM_{2.5}$**	**No_2**	**So_2**	
FROM	TO	5	2	6	10	
04-08-2025	05-08-2025	82	26	9	BDL	CLOUDY/CALM
05-08-2025	06-08-2025	79	22	8	BDL	CLOUDY/CALM
10-08-2025	11-08-2025	65	19	7	BDL	CLOUDY/CALM
11-08-2025	12-08-2025	77	21	8	BDL	CLOUDY/CALM
18-08-2025	19-08-2025	55	17	6	BDL	RAINY/CALM
19-08-2025	20-08-2025	68	20	7	BDL	CLOUDY/CALM
25-08-2025	26-08-2025	76	25	9	BDL	CLOUDY/CALM
26-08-2025	27-08-2025	70	21	8	BDL	CLOUDY/CALM
NAAQS, 2009		**100**	**60**	**80**	**80**	

Analysed by

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

SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)	
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 16-08-25 TO 15-09-25

MINE WATER DISCHARGE:	BBUW1			
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
04-08-2025	7.86	22	36	BDL
18-08-2025	7.82	24	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

Analysed by

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

NOISE LEVEL MONITORING DATA

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

FAN HOUSE:		BBUN1	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'25	12-08-2025	73.5	68.7
AUG'25	26-08-2025	74.5	68.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**75**	**70**

COLONY:		BBUN2	
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'25	12-08-2025	45.5	41.4
AUG'25	26-08-2025	45.8	42.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		**55**	**45**

Yogesh Pidurkar
Reviewed by

Amol Kamble
Authoriesed by

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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 2025

Unique Application Number	Submitted Date
MPCB-ENVIRONMENT_STATEMENT-0000087995	30-09-2025

PART A

Company Information

Company Name	Application UAN number	
Ballarpur Colliery 3 &4 pits	142605	

Address

Ballarpur Colliery 3 & 4 pit , Ballarpur Area, WCL

Plot no	Taluka	Village
168 206 207 208 209 268 278 280 282 283 116 117 94	Ballarpur	Ballarpur
Capital Investment (In lakhs)	**Scale**	**City**
4306.65	L.S.I	Chandrapur
Pincode	**Person Name**	**Designation**
442701	Shri S. Talakal	Sub Area Manager
Telephone Number	**Fax Number**	**Email**
7588743099	07173230098	envbc34@gmail.com
Region	**Industry Category**	**Industry Type**
SRO-Chandrapur	Red	R35 Mining and ore beneficiation
Last Environmental statement submitted online	**Consent Number**	**Consent Issue Date**
yes	Format1.0/APAE Section/UAN No.MPCBCONSENT-0000142605/CR/2301001996	2023-01-24
Consent Valid Upto	**Establishment Year**	**Date of last environment statement submitted**
2025-06-30	1968	Jan 1 1900 12:00:00:000AM

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

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Coal	0.60	0.083	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
-	0	0	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	2253.80	42.00
Cooling	0.00	0.00
Domestic	1071.35	1500.00
All others	0.00	0.00
Total	3325.15	1542.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily trade effluent(CGWA NOC)	2832	1290	CMD

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

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
coal (CUBIC METER/TONNE)	0.216	0.184	CMD

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
EXPLOSIVES (KG/TONNE)	0.254	0.204	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Diesel	1	1	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
WATER REPORT ATTACHED IN PART I	0	0	-	-	-

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
NO AIR STACK MONITORING	0	0	-	-	-

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	0	0	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	0	0	Ton/Y

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
OVERBURDEN	0	0	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	M3/Anum

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	M3/Anum

Part-F

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	KL/A	0

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
-	0	M3/Anum	0

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of the pollution Control measures	0	0	2000	207000	0	0

Part-H

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

[A] Investment made during the period of Environmental Statement

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

Piezometer along with DWLR	-	15
Fog cannon	-	10

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	***Environmental Protection Measures***	***Capital Investment (Lacks)***
-	-	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

-

Name & Designation

Shri. Talkal, Sub Area Manager

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000087995

Submitted On:

30-09-2025

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DRINKING WATER MONITORING REPORT

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO.4094423068

QE-SEPTEMBER 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

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	TC-7102

TEST REPORT NO.	RIN/TR/SEPT-25/DW16	DATE OF ISSUE	25-10-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	AMALAGAMATED OF GOURI PAUNI OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:	FILTER PLANT	SAMPLING DATE:	13-07-2025

SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method	1	1	5	15
2	Odour	IS 3025 Part-5	Qualitative	Unobjectionable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Neplometric Method	1	1	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method	2	7.95	6.5 to 8.5	No relaxation
5	Total Hardness (as $CaCO_3$) - mg/l	IS 3025 Part-21 EDTA Method	4	292	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl^-)- mg/l	IS 3025 Part-32 Argentometric Method	2	58	250	1000
8	Residual Chlorine -mg/l	APHA, 24th Edition 4500-G DPD Colorometric method	0.02	BDL	0.2	1
9	Fluoride (as F^-)- mg/l	APHA, 24th Edition 4500-FD SPADNS Method	0.02	0.45	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method	25	590	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40	1.6	60.8	75	200
12	Magnesium (as Mg) -mg/l	APHA (24th Ed.) 3500 B, Calculation Method	3	34.02	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method	0.02	BDL	0.1	0.3
15	Sulphate (as SO_4^{-2}) -mg/l	APHA (24th Edition) 4500E Turbidimetric Method	2	88.47	200	400

16	Nitrates (as NO3) - mg/l	APHA (24th Edition) 4500-NO3-B UV Spectrophotometric method	0.5	12.43	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.005	BDL	0.01	No relaxation
19	Selenium (Se) –mg/l	IS 3025 P 56	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 24th Edition 3114 C AAS-VGA Method	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 24th Edition 4500 B-C Carmine Method	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23	4	120	200	600
25	Nickel-mg/l	APHA, 24th Edition 3113 B AAS FLAME Method	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	IS 3025 P 55	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT

SCIENTIFIC ASSISTANT

Amol Kamble
AUTHORIZED SIGNATORY

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	TC-7102

TEST REPORT NO.	RIN/TR/SEPT-25/DW17	DATE OF ISSUE	25-10-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	SASTI OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:	FILTER PLANT	SAMPLING DATE:	13-07-2025

SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE	PERMISSIBLE LIMIT IN THE ABSENCE OF
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method	1	1	5	15
2	Odour	IS 3025 Part-5	Qualitative	Unobjectionable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Neplometric Method	1	2	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method	2	7.94	6.5 to 8.5	No relaxation
5	Total Hardness (as $CaCO_3$) - mg/l	IS 3025 Part-21 EDTA Method	4	464	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl^-)- mg/l	IS 3025 Part-32 Argentometric Method	2	48	250	1000
8	Residual Chlorine -mg/l	APHA, 24th Edition 4500-G DPD Colorometric method	0.02	BDL	0.2	1
9	Fluoride (as F^-)- mg/l	APHA, 24th Edition 4500-FD SPADNS Method	0.02	0.80	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method	25	760	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40	1.6	118.4	75	200
12	Magnesium (as Mg) -mg/l	APHA (24th Ed.) 3500 B, Calculation Method	3	41.8	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method	0.02	0.024	0.1	0.3
15	Sulphate (as SO_4^{-2}) -mg/l	APHA (24th Edition) 4500E Turbidimetric Method	2	90.68	200	400

16	Nitrates (as NO3) - mg/l	APHA (24th Edition) 4500-NO3-B UV Spectrophotometric method	0.5	15.52	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.005	BDL	0.01	No relaxation
19	Selenium (Se) –mg/l	IS 3025 P 56	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 24th Edition 3114 C AAS-VGA Method	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method	< 0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 24th Edition 4500 B-C Carmine Method	< 0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23	220	64	200	600
25	Nickel-mg/l	APHA, 24th Edition 3113 B AAS FLAME Method	BDL	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	IS 3025 P 55	BDL	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT

SCIENTIFIC ASSISTANT

Amol Kamble
AUTHORIZED SIGNATORY

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	TC-7102

TEST REPORT NO.	RIN/TR/SEPT-25/DW18	DATE OF ISSUE	25-10-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	NEW DHOPTALA OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:	MANAGER OFFICE	SAMPLING DATE:	13-07-2025

SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE	PERMISSIBLE LIMIT IN THE ABSENCE OF
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method	1	2	5	15
2	Odour	IS 3025 Part-5	Qualitative	Unobjectionable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Neplometric Method	1	2	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method	2	7.93	6.5 to 8.5	No relaxation
5	Total Hardness (as $CaCO_3$) - mg/l	IS 3025 Part-21 EDTA Method	4	536	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl^-)- mg/l	IS 3025 Part-32 Argentometric Method	2	70	250	1000
8	Residual Chlorine -mg/l	APHA, 24th Edition 4500-G DPD Colorometric method	0.02	BDL	0.2	1
9	Fluoride (as F^-)- mg/l	APHA, 24th Edition 4500-FD SPADNS Method	0.02	1.08	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method	25	890	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40	1.6	128	75	200
12	Magnesium (as Mg) -mg/l	APHA (24th Ed.) 3500 B, Calculation Method	3	52.49	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method	0.02	0.029	0.1	0.3
15	Sulphate (as SO_4^{-2}) -mg/l	APHA (24th Edition) 4500E Turbidimetric Method	2	93.46	200	400

16	Nitrates (as NO3) - mg/l	APHA (24th Edition) 4500-NO3-B UV Spectrophotometric method	0.5	17.31	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.005	BDL	0.01	No relaxation
19	Selenium (Se) –mg/l	IS 3025 P 56	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 24th Edition 3114 C AAS-VGA Method	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 24th Edition 4500 B-C Carmine Method	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23	4	92	200	600
25	Nickel-mg/l	APHA, 24th Edition 3113 B AAS FLAME Method	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	IS 3025 P 55	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	TC-7102

TEST REPORT NO.	RIN/TR/SEPT-25/DW19	DATE OF ISSUE	25-10-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	BALLARPUR UG	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:	FILTER PLANT	SAMPLING DATE:	13-07-2025

SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012 REQUIREMENT (ACCEPTABLE LIMIT)	IS 10500:2012 PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method	1	1	5	15
2	Odour	IS 3025 Part-5	Qualitative	Unobjectionable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Neplometric Method	1	1	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method	2	8.13	6.5 to 8.5	No relaxation
5	Total Hardness (as $CaCO_3$) - mg/l	IS 3025 Part-21 EDTA Method	4	236	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl^-)- mg/l	IS 3025 Part-32 Argentometric Method	2	62	250	1000
8	Residual Chlorine -mg/l	APHA, 24th Edition 4500-G DPD Colorometric method	0.02	BDL	0.2	1
9	Fluoride (as F^-)- mg/l	APHA, 24th Edition 4500-FD SPADNS Method	0.02	0.42	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method	25	550	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40	1.6	46.4	75	200
12	Magnesium (as Mg) -mg/l	APHA (24th Ed.) 3500 B, Calculation Method	3	29.16	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method	0.02	BDL	0.1	0.3
15	Sulphate (as SO_4^{-2}) -mg/l	APHA (24th Edition) 4500E Turbidimetric Method	2	68.39	200	400

16	Nitrates (as NO3) - mg/l	APHA (24th Edition) 4500-NO3-B UV Spectrophotometric method	0.5	11.77	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 24th Edition 3113 B AAS GTA Method	0.005	BDL	0.01	No relaxation
19	Selenium (Se) –mg/l	IS 3025 P 56	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 24th Edition 3114 C AAS-VGA Method	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method	0.01	0.015	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 24th Edition 4500 B-C Carmine Method	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23	4	112	200	600
25	Nickel-mg/l	APHA, 24th Edition 3113 B AAS FLAME Method	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	IS 3025 P 55	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT

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

BALLARPUR AREA

WESTERN COALFIELDS LTD.

HALF YEARLY (APR 25 - SEPT 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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1	HEAVY METAL ANALYSIS REPORT	1 TO 18

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM46	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GOURI DEEP	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	MANAGER OFFICE	BGDOA-1	08-04-2025
2	MUTRA VILLAGE	BGDOA-2	02-04-2025
3	GOYEGAON VILLAGE	BGDOA-3	02-04-2025
4	RAILWAY SIDING	BGDOA-4	08-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value				National Ambient Air Quality Standard NAAQS, 2009
				BGDOA-1	BGDOA-2	BGDOA-3	BGDOA-4	
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/m^3	ASTM D 4185	0.007 µg/m^3	BDL	BDL	BDL	BDL	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	BDL	BDL	BDL	BDL	**
5	Cadmium, µg/m^3	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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM48	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	MINE OFFICE	BP2OA-1	13-04-2025
2	SUBSTATION	BP2OA-2	13-04-2025
3	SAKHRI VILLAGE	BP2OA-3	04-04-2025
4	WORKSHOP PAUNI OC	BP2OA-4	13-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value				National Ambient Air Quality Standard NAAQS, 2009
				BP2OA-1	BP2OA-2	BP2OA-3	BP2OA-4	
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/m^3	ASTM D 4185	0.007 µg/m^3	BDL	BDL	BDL	BDL	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	BDL	BDL	BDL	BDL	**
5	Cadmium, µg/m^3	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	**

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM49	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	Amagamalation Gouri I & Pauni OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	MANAGER OFFICE -GOURI -I O/C	BGOA-1	08-04-2025
2	SAM OFFICE -GOURI SUB AREA	BGOA-2	08-04-2025
3	GOURI VILLAGE	BGOA-4	02-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value			National Ambient Air Quality Standard NAAQS, 2009
				BGOA-1	BGOA-2	BGOA-4	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	BDL	BDL	BDL	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	0.0048	BDL	BDL	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	BDL	**

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM51	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SASTI OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	GOURI COLONY /FILTER PLANT	BSOA-3	04-04-2025
2	SAM OFFICE -SASTI OC	BSOA-1	06-04-2025
3	AREA STORE	BSOA-2	06-04-2025

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM52	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SASTI UG	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	SASTI COLONY	BSUOA-3	04-04-2025
2	SASTI VILLAGE	BSUOA-4	04-04-2025

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	**Test Report** **Ambient Air Quality Monitoring Data** **For Heavy Metals**	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM53	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW DHOPTALA OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	SAM OFFICE DHOPTALA SUB AREA	BDOA-1	06-04-2025
2	MANAGER OFFICE - DHOPTALA OC	BDOA-2	06-04-2025

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	**Test Report** **Ambient Air Quality Monitoring Data** **For Heavy Metals**	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM54	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BALLARPUR UG	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	MANAGER OFFICE -BALLARPUR UG	BBUOA-1	07-04-2025
2	FILTER PLANT COLONY	BBUOA-4	02-04-2025

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	**Test Report** **Ambient Air Quality Monitoring Data** **For Heavy Metals**	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM55	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	PREMISES OF SUB AERA OFFICE	BBOA-3	07-04-2025
2	SUBSTATION -BALLARPUR OC	BBOA-2	07-04-2025

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	**Test Report** **Ambient Air Quality Monitoring Data** **For Heavy Metals**	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM57	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	Amagamalation Gouri & Pauni OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	CHP/ Coal unloading point	BGOF-1	19-04-2025
2	W. Bridge	BGOF-2	19-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value		National Ambient Air Quality Standard NAAQS, 2009
				BGOF-1	BGOF-2	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	0.0078	0.0076	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	0.0047	BDL	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	**

BDL: BELOW DETECTION LIMIT

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM58	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	SASTI OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	Main CHP	BSOF-1	25-04-2025
2	W. Bridge	BSOF-2	25-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value		National Ambient Air Quality Standard NAAQS, 2009
				BSOF-1	BSOF-2	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	0.0079	0.0072	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	BDL	BDL	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	**

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM60	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BALLARPUR OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	CHP/Coal moni. Point	BBOF-1	18-04-2025
2	W. Bridge	BBOF-2	18-04-2025
3	Rly. Siding	BBOF-3	18-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value			National Ambient Air Quality Standard NAAQS, 2009
				BBOF-1	BBOF-2	BBOF-3	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	0.0078	0.0084	0.0079	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	BDL	0.0048	BDL	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	BDL	**

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Environment Laboratory CMPDI RI-IV, NAGPUR	**Test Report** **Ambient Air Quality Monitoring Data** **For Heavy Metals**	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM61	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GOURI DEEP OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	WEIGH BRIDGE	BGDOF1	19-04-2025
2	CHP	BGDOF2	19-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value		National Ambient Air Quality Standard NAAQS, 2009
				BGDOF1	BGDOF2	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	0.0075	0.0073	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	BDL	BDL	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	**

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Environment Laboratory CMPDI RI-IV, NAGPUR	**Test Report** **Ambient Air Quality Monitoring Data** **For Heavy Metals**	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM59	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	PAUNI II OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	CHP/ Coal unloading point	BP2OF-1	20-04-2025
2	W. Bridge	BP2OF-2	20-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value		National Ambient Air Quality Standard NAAQS, 2009
				BP2OF-1	BP2OF-2	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	0.0081	0.0083	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	0.0048	0.0046	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	**

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	TC-7102

TEST REPORT NO.	RIN/TR/JUNE /HM59a	DATE OF ISSUE	25-09-2025
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	AIR SAMPLE
CUSTOMER LETTER REFERENCE NO.	WCL/HQ/ENV/14-I/206-220 DATED: 25.03.2022		
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		
NAME OF AREA	BALLARPUR	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	NEW DHOPTALA OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	WEIGH BRIDGE	BNDOF-1	18-04-2025
2	CHP /COAL MINE POINT	BNDOF-2	25-04-2025

Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value		National Ambient Air Quality Standard NAAQS, 2009
				BNDOF-1	BNDOF-2	
1	Arsenic, µg/m^3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	0.006 µg/m^3 (Annual average)
2	Lead, µg/m3	IS 5182 PART 22	7.0 µg/m^3	BDL	BDL	1.0 µg/m^3 (24 Hourly average)
3	Nickle, µg/m^3	ASTM D 4185	0.007 µg/m^3	0.0082	0.0077	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m^3	ASTM D 4185	0.0045 µg/m^3	BDL	BDL	**
5	Cadmium, µg/m^3	ASTM D 4185	0.0015 µg/m^3	BDL	BDL	**
6	Mercury, µg/m3	ASTM D 4185	0.0007 µg/m^3	BDL	BDL	**

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REPORT ON

MONITORING OF GROUND WATER LEVEL

OF

BALLARPUR UG EXPN.MINE

BALLARPUR AREA

(M.S)

WESTERN COALFIELDS LTD.

PERIOD- MAY 2025(PRE MONSOON)

M/s Anacon Laboratories Pvt. Ltd., Nagpur

MoEF&CC (GOI) Recognized Laboratory
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
Lab. & Consultancy: FP-34, 35, Food Park,
MIDC, Butibori, Nagpur – 441122
Mob: +91-9372960077
Email: ***ngp@anacon.in***
Website: ***www.anaconlaboratories.com***

Report No. ANqr /PD/20A/2023/199

2025-26

Certificate

Groundwater level monitoring has been conducted with due diligence, and a comprehensive report on the monitoring of groundwater levels in all observation wells has been prepared as per the scope of work outlined in work order no. वेकोलि/मुख्यालय/पर्यावरण/14-L/1122-1148, dated 19.04.2025 for the May 2025 (Pre-monsoon) Period.

The report includes the monitoring of groundwater levels and water quality analysis of observation wells pertaining to the BALLARPUR UG EXPN. Mine in the Ballarpur Area of Chandrapur District, Maharashtra.

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

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

Krupali Raut
(Geologist)

Gyanchand Bohra
NABET Accredited EIA Expert
for Hydrogeology & Geology

Nagpur
May-2025

ANACON LABORATORIES PVT. LTD. NAGPUR

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

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ANACON LABORATORIES PVT. LTD. NAGPUR

INTRODUCTION

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

M/s Anacon Laboratories Pvt. Ltd. has been awarded the Work of "Groundwater level Monitoring (i.e. bore well / piezometer Water levels) and Water quality analysis (as per IS10500) for 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/1122-1148, dated 19.04.2025 for the May 2025 (Pre-monsoon) Period.

This Ground Water Level Monitoring report is prepared for BALLARPUR UG EXPN.MINE mines of Ballarpur Area of WCL for 1 season i.e **PERIOD- MAY 2025 (PRE-MONSOON).** This mine is located in Chandrapur District of Maharashtra.

GENERAL HYDROGEOLOGICAL CONDITION

The major water bearing formations in the district are Alluvium, Lower Gondwana Sandstones, Deccan Trap Basalt, Vindhyan Limestone and Archean metamorphic. Amongst these, the lower Gondwana Sandstones, particularly Kamthi Sandstone forms the most potential aquifer.

A. HARD ROCK FORMATIONS

ARCHEAN METAMORPHICS

Archeans, which comprise granite and granitic gneiss, occur in most of the eastern part of the district extending north-south from Nagbhid to Gondpipri. 6 These rocks are generally devoid of primary porosity, but weathering, jointing, fracturing, shearing etc., create secondary porosity, within which the ground water generally occurs in phreatic conditions. The depth of weathering ranges from 4 to 12 m bgl and dugwells are generally tapping this zone with yields of up to 30 m3 /day. Contrary to the general perception, the possibility of deep-seated fracture zone exists in the area because of tectonic disturbances manifested in the form of dykes observed in the area. Therefore, borewells in the depth range of 40-70 m bgl are also successful in this formation at suitable places with yield of 1000 to 35000 lph. High yielding dugwells are generally located in fractured granites.

VINDHYAN LIMESTONE

In Vindhyans, Limestones are water bearing formation while Sandstone due to their hard and compact nature, has poor ground water potential. The Vindhyan sediments mainly occur in north central part of the district around Tadoba and Nagbhid in parts of Chimur, Sindewahi, Bhadravati and Nagbhid talukas and in south eastern part of the district in parts of Chandur and Rajura talukas. Limestones as such are massive but wherever they are cavernous and fractured they are capable of holding water and the ground water generally occurs under phreatic condition in these formations and the discharge in general is poor (up to 15 m3 /day). The borewells drilled by State Govt. agencies in the depth range of 30 to 40 m bgl are successful only at few places where discharge of 10000 lph or above has been observed.

DECCAN TRAP BASALT

Deccan Trap Basalt is observed in small area in the north eastern and south eastern peripheral parts of the district and does not form a promising aquifer in the district. Weathered, jointed and fractured Massive and Vesicular Basalt forms the aquifer in the area. Ground water occurs in phreatic conditions within the depth of 10-15 m, however, borewells drilled have shown presence of fracture zones and thus forming deeper confined and semi-confined aquifers at places. The dugwells yield varies from 15-30 m3 /day when favourably located, whereas borewells yield 1 to 3 lps.

B. <u>SOFT ROCK FORMATIONS</u>

GONDWANA SANDSTONE

Gondwana formation comprising of Kamthi and Barakar Sandstone and Maleri and Talchir Shale occupy north-south extending elongated stretch in cental and southern parts of the district in parts of Warora, Bhadravati, Chandrapur, Ballarpur, Rajura and Gondpipri 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 phreatic as well as confined conditions in Kamthi Sandstone up to the depth of 80 to 120 m bgl with thickness varying from 34 to 102 m. Barakar Sandstone occurs below Kamthi formation and three granular zones are observed with cumulative thickness of about 72 m within a 300 m thick sandstone-shale sequence. Comparatively Kamthi Sandstone has more ground water potential with yields of up to 20 lps. The other Gondwana formations i.e., Maleri Series (upper Gondwana) and Talchirs (lower Gondwana) have very poor ground water potential and ground water occurs in phreatic condition.

ALLUVIUM

Alluvium of fluvial origin occurs in narrow patches along the banks of Wardha and Wainganga Rivers and consists of clay, silt with lenticular bodies of sand and gravel. Ground water generally occurs under phreatic conditions down to the depth of 10-15 m. The area in the north eastern part of the district near Brahmapuri along the western bank of Wainganga River and having a spread of about 100 sq. km. forms the most potential alluvial area. The Allluvium in this part is occurs down to 30-35 m and the basement is reported to be formed by Granitic Gneisses. The dugwells yield up to 50 m3 /day when favourably located, whereas shallow tubewells yield varies from 5 to 15 lps.

ANACON LABORATORIES PVT. LTD. NAGPUR

BALLARPUR UG EXPN.MINE

BALLARPUR AREA

WESTERN COALFIELDS LTD.

PERIOD- MAY 2025 (PRE-MONSOON)

ANACON LABORATORIES PVT. LTD. ★ NAGPUR

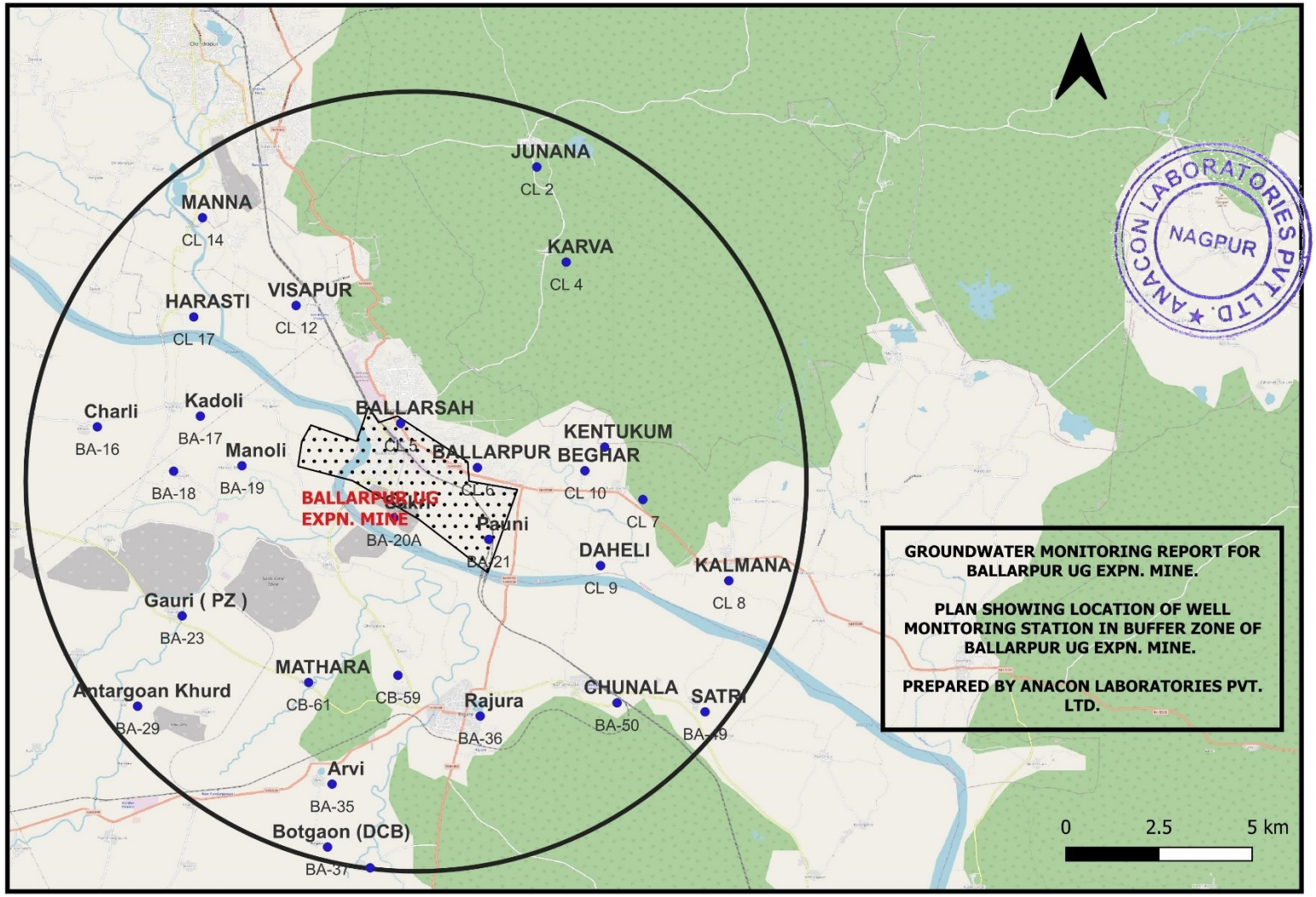

FIGURE I: GROUND WATER MONITORING STATION (OBSERVATION WELLS IN AND AROUND OF BALLARPUR UG EXPN)

Table-I: Ground water level monitoring data from dugwells/piezometers in buffer zone of Expn. of Ballarpur UG Expn., Ballarpur Area, WCL

SR. NO	Well No. BA	Name of village	Well location	Latitude	Longitude	R.L. in m	Well depth (m bmp)	Well dia (m)	Height of measuring point (m agl)	Depth to water level (m.bgl)		
										May-25	UTILITY	G/F
1	BA-16	Charli	Near Bajarang Bali Mandir, Southern edge of the village	19°51'9.5"	79°16'16.7''	234	14.83	4.28	0.77	7.3	agriculture	basalt
2	BA-17	Kadoli	East of village, outside near Mata mandir, 150 m S of Kadoli-Kolgaon Road	19°51'19.4"	79°17'51.7''	186	6.44	3.94	0.81	4.9	agriculture	laterite
3	BA-18	Baba pur	N of the village near the temple	19°50'28.6"	79°17'27.1''	187	7.33	2.88	0.89	5.2	agriculture	limestone
4	BA-19	Mano li	E of the village near to Gram Panchayat office	19°50'33.6"	79°18'30.1''	191	9.26	2.31	0.71	6.1	agriculture	basalt
5	BA-20A	Sakri	West of the village near to school	19°49'45.5"	79°20'50.3''	236	12.27	2.79	1.13	7.6	Domestic	limestone
6	BA-21	Pauni	N edge of the village, about 70 m south of Gauri -Nandgaon road.	19°49'25.6"	79°22'17.7''	219	8.39	3.42	0.96	6.9	Domestic	basalt
7	BA-23	Gauri (PZ)	About 200m east of the village, near to village road junction in agricultural field	19°48'15"	79°17'34.9''	188	9.68	3.15	0.76	5.8	Domestic	limestone
8	BA-29	Antar goan Khurd	NE side ,at the entrance of village	19°46'51.6"	79°16'53.8''	178	9.45	3.49	0.73	6.1	agriculture	laterite
9	BA-35	Arvi	Northern side of village, adjacent to school compound.	19°45'39.7"	79°19'53.2''	176	9.14	1.96	0.83	7.7	agriculture	limestone

SR. NO	Well No. BA	Name of village	Well location	Latitude	Longitude	R.L. in m	Well depth (m bmp)	Well dia (m)	Height of measuring point (m agl)	Depth to water level (m.bgl)		
										May-25	UTILITY	G/F
10	BA-36	Rajura	Near Bhgawani Mandir, 50 m south of Rajura-Awarpur road, near Nala Bridge	19°46'42.5"	79°22'9.8''	243	10.88	2.83	0.93	6.1	agriculture	laterite
11	BA-37	Botgaon (DCB)	Western side of the village, near Chaupal (imli tree)	19°44'41.6"	79°19'49''	217	9.42	2.76	0.56	8.1	Domestic	limestone
12	BA-38	Somthana	Near Panchayat office, center of the village	19°44'22.4"	79°20'28.3''	189	12.91	3.14	0.56	6.5	limestone	Domestic
13	BA-49	SATRI	Centre of village Basant Rao Bardis house	19°46'46.4"	79°25'37.2''	192	9.44	1.98	0.63	5.8	limestone	Domestic
14	BA-50	CHUNALA	At the entry point of Indira Nagar ward no.1	19°46'54.7"	79°24'16''	241	8.76	1.56	0.64	5.2	laterite	agriculture
15	CL 4	KARVA	Karva Nurseri	19°53'41.6"	79°23'29.1''	216	12.07	1.02	1.04	7.2	agriculture	laterite
16	CL 5	BALLARSAH	In church campus infront of Nagar Parishad	19°51'12.7"	79°20'56.4''	179	7.68	2.96	0.72	5.8	Domestic	basalt
17	CL 6	BALLARPUR	In the campus of Ice Sai Baba Factory Rajura Road	19°50'31.9"	79°22'7.2''	184	13.14	4.42	0.93	6.2	Domestic	basalt
18	CL 7	NAV DAHLI	Opposite Budha Vihar	19°50'2.4"	79°24'39.8''	196	8.84	2.83	0.24	5.9	agriculture	laterite
19	CL 8	KALMANA	Behind School & Grampanchyat office in the village	19°48'47.5"	79°25'59.1''	182	9.64	2.71	0.63	5	agriculture	basalt
20	CL 9	DAHELI	In the village on west side	19°49'1.4"	79°24'0.8''	177	9.55	2.49	0.87	6.4	agriculture	laterite
21	CL 10	BEGHAR	In the Junction of Vahmini	19°50'29"	79°23'46.4''	226	11.39	3.24	0.61	8.1	agriculture	laterite
22	CL 11	KENTUKUM	Infront of Temple in the village	19°50'50.8"	79°24'4.6''	216	12.43	2.23	0.66	6.7	agriculture	laterite

SR. NO	Well No. BA	Name of village	Well location	Latitude	Longitude	R.L. in m	Well depth (m bmp)	Well dia (m)	Height of measuring point (m agl)	Depth to water level (m.bgl)		
										May-25	UTILITY	G/F
23	CL 12	VISAPUR	Out of Campus of Zila School	19°53'1.5"	79°19'20''	195	18.93	3.91	0.91	7.7	Domestic	laterite
24	CL 17	HARASTI	In front of Hanuman temple	19°52'51"	79°17'45.6''	203	10.44	3.86	0.64	6.5	agriculture	basalt
25	CB-59	ADITYA NAGAR RAMPUR	CENTER OF THE VILLAGE NEAR CHOUDARY KIRANA STORE	19°47'20.11"	79°20'53.95''	220	10.6	4.8	0.4	5.90	domestic	basalt
26	CB-61	MATHARA	NORTH-WEST 3OOM FROM VILLAGE, IN THE AGRICULTURE LAND.	19°47'13.49"	79°19'31.56''	205	9.6	4.2	0.3	7.10	agriculture	basalt
27	CL 14	MANNA	Inside village by side of house Bapuji Motghare	19°54'22.62"	79°17'53.69''	230	11.17	3.51	0.45	8.00	agriculture	laterite
28	CL 2	JUNANA	Forest colony	19°55'9.4"	79°23'1.99''	185	14.4	1.26	0.7	9.50	agriculture	limestone

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982500003762F
Test Report No.: ALPL/23062025/01-13

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-13	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 22.05.2025 **Sampling Time** Not Mentioned	Charli (Well No.-BA-16)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	136.2
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	142.98
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**171.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**46.17**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	10.62
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.13
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	51.10
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**1021**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**618**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By | **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982500003762F
Test Report No.: ALPL/23062025/01-13

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-13	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 22.05.2025 **Sampling Time** Not Mentioned	Charli (Well No.-BA-16)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	BLQ(LOQ-0.02)
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.4, 7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwaj
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003763F
Test Report No.: ALPL/23062025/01-14

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-14 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 22.05.2025 **Sampling Time** Not Mentioned	Kadoli (Well No.-BA-17)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	130.52
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	149.63
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**97.6**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**39.85**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	9.90
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.63
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	46.54
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**816**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**408**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003763F
Test Report No.: ALPL/23062025/01-14

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-14	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 22.05.2025 **Sampling Time** Not Mentioned	Kadoli (Well No.-BA-17)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.09
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.4, 7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003764F
Test Report No.: ALPL/23062025/01-15

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-15	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Babapur (Well No.-BA-18)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	141.87
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	80.28
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	46.4
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	16.03
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.61
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.37
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	20.32
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	296
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	182
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003764F
Test Report No.: ALPL/23062025/01-15

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-15	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Babapur (Well No.-BA-18)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.20
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is complying with IS 10500(2012).**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003765F
Test Report No.: ALPL/23062025/01-16

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-16	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Manoli (Well No.-BA-19)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	73.77
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	68.87
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	68
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	24.78
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.61
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.92
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	48.25
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	416
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**276**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Sneha Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003765F
Test Report No.: ALPL/23062025/01-16

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-16	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Manoli (Well No.-BA-19)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.12
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the test Sr. No. 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003766F
Test Report No.: ALPL/23062025/01-17

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-17	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Sakri (Well No.-BA-20A)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	107.82
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	117.33
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	53.6
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	22.35
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.61
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.64
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	30.58
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	397
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**226**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003766F
Test Report No.: ALPL/23062025/01-17

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-17	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Sakri (Well No.-BA-20A)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.48
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the test Sr. No. 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003767F
Test Report No.: ALPL/23062025/01-18

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-18	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Pauni (Well No.-BA-21)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	102.15
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	69.82
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	54.4
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	19.92
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.82
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.54
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	18.42
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	310
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**218**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982500003767F
Test Report No.: ALPL/23062025/01-18

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-18	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Pauni (Well No.-BA-21)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.45
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the test Sr. No. 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003768F
Test Report No.: ALPL/23062025/01-19 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-19	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Gauri (PZ) (Well No.-BA-23)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	104.03
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	122.08
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	54.4
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**41.31**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	10.49
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.54
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	65.44
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**849**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**426**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garwar
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003768F
Test Report No.: ALPL/23062025/01-19

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-19	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Gauri (PZ) (Well No.-BA-23)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.33
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003771F
Test Report No.: ALPL/23062025/01-22

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-22	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Antargaon Khurd (Well No.-BA-29)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	136.2
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	134.90
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**155.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	11.66
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	9.83
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.58
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	51.67
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**713**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**436**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003771F
Test Report No.: ALPL/23062025/01-22

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-22	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 23.05.2025 **Sampling Time** Not Mentioned	Antargaon Khurd (Well No.-BA-29)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	BLQ(LOQ-0.02)
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003777F
Test Report No.: ALPL/23062025/01-28 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-28	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 24.05.2025 **Sampling Time** Not Mentioned	Arvi (Well No.-BA-35)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	170.25
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	90.33
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	58.4
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	27.21
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	7.67
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.58
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	32.96
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**561**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**258**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003777F
Test Report No.: ALPL/23062025/01-28 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-28	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 24.05.2025 **Sampling Time** Not Mentioned	Arvi (Well No.-BA-35)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	BLQ(LOQ-0.02)
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003778F
Test Report No.: ALPL/23062025/01-29

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-29	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 24.05.2025 **Sampling Time** Not Mentioned	Rajura (Well No.-BA-36)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	187.27
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	129.18
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	62.4
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	28.67
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	8.07
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.85
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	44.36
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**627**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**274**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003778F
Test Report No.: ALPL/23062025/01-29

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-29	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 24.05.2025 **Sampling Time** Not Mentioned	Rajura (Well No.-BA-36)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.24
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003779F
Test Report No.: ALPL/23062025/01-30

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-30	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 25.05.2025 **Sampling Time** Not Mentioned	Botgaon (DCB) (Well No.-BA-37)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	**385.9**
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	**344.82**
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**171.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**71.44**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	11.96
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.28
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	64.30
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**1488**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**722**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwaj
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003779F
Test Report No.: ALPL/23062025/01-30

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-30	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 25.05.2025 **Sampling Time** Not Mentioned	Botgaon (DCB) (Well No.-BA-37)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.12
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.1, 3, 4, 7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003780F
Test Report No.: ALPL/23062025/01-31 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-31	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 25.05.2025 **Sampling Time** Not Mentioned	Somthana (Well No.-BA-38)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	179.2
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	165.78
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**86.4**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**40.82**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	10.63
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.33
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	44.74
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**812**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**384**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garway
Deputy Quality Manager

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Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982500003780F
Test Report No.: ALPL/23062025/01-31

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-31	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 25.05.2025 **Sampling Time** Not Mentioned	Somthana (Well No.-BA-38)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	BLQ(LOQ-0.02)
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.- TC129982500003784F
Test Report No.: ALPL/23062025/01-35 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-35 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 25.05.2025 **Sampling Time** Not Mentioned	Satri (Well No.-BA-49)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	72.8
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	36.91
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	20.8
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	8.74
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.00
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.02
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	8.16
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	159
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	BLQ(LOQ-0.1)
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	88
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	Agreeable
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garwa
Deputy Quality Manager

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ORIGINAL REPORT

Anacon Laboratories

TC-12998

Test Report

ULR No.- TC129982500003784F
Test Report No.: ALPL/23062025/01-35 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-35	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 25.05.2025 **Sampling Time** Not Mentioned	Satri (Well No.-BA-49)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.37
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is complying with IS 10500(2012).**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

ORIGINAL TEST REPORT

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TC-12998

Test Report

ULR No.- TC129982500003785F
Test Report No.: ALPL/23062025/01-36 Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-36	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 26.05.2025 **Sampling Time** Not Mentioned	Chunala (Well No.-BA-50)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	140
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	88.87
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	56
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	25.27
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	6.89
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.30
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	13.01
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**504**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**244**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	Agreeable
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003785F
Test Report No.: ALPL/23062025/01-36

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-36	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 26.05.2025 **Sampling Time** Not Mentioned	Chunala (Well No.-BA-50)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.04
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003804F
Test Report No.: ALPL/23062025/01-55

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-55 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 29.05.2025 **Sampling Time** Not Mentioned	Karva (Well No.-CL 4)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	119.17
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	110.73
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**131.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	20.89
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	7.48
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.34
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	66.20
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**807**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**414**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003804F
Test Report No.: ALPL/23062025/01-55

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-55	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 29.05.2025 **Sampling Time** Not Mentioned	Karva (Well No.-CL 4)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.16
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003805F
Test Report No.: ALPL/23062025/01-56

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-56	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 29.05.2025 **Sampling Time** Not Mentioned	Ballarsah (Well No.-CL 5)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	136.2
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	132.53
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	61.6
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	27.70
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.85
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.26
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	36.66
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	324
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**268**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003805F
Test Report No.: ALPL/23062025/01-56

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-56 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 29.05.2025 **Sampling Time** Not Mentioned	Ballarsah (Well No.-CL 5)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.59
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the test Sr. No. 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003806F
Test Report No.: ALPL/23062025/01-57

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-57	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 29.05.2025 **Sampling Time** Not Mentioned	Ballarpur (Well No.-CL 6)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	79.45
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	141.55
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**92.8**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**36.45**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	6.28
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.14
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	36.00
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**527**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**382**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003806F
Test Report No.: ALPL/23062025/01-57

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-57	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 29.05.2025 **Sampling Time** Not Mentioned	Ballarpur (Well No.-CL 6)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.23
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.4, 7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwa
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003807F
Test Report No.: ALPL/23062025/01-58

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-58 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Nav Dahli (Well No.-CL 7)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	124.85
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	119.95
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	69.6
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	15.06
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	5.62
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.13
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	21.46
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	426
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**236**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003807F
Test Report No.: ALPL/23062025/01-58

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-58	**Analysis Start**	12.06.2025
	Inward Date	11.06.2025	**Analysis End**	23.06.2025
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025		
	Inv. No.	25		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Nav Dahli (Well No.-CL 7)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.51
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the test Sr. No. 14.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwar
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003808F
Test Report No.: ALPL/23062025/01-59

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-59 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Kalmana (Well No.-CL 8)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	102.15
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	124.81
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	38.4
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	13.60
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.49
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.49
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	24.69
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	396
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	152
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003808F
Test Report No.: ALPL/23062025/01-59

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-59	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Kalmana (Well No.-CL 8)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.38
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is complying with IS 10500(2012).**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003809F
Test Report No.: ALPL/23062025/01-60

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-60 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Daheli (Well No.-CL 9)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	136.2
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	142.78
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**97.6**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	**36.93**
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	6.11
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.43
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	38.56
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**610**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**396**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003809F
Test Report No.: ALPL/23062025/01-60

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-60 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Daheli (Well No.-CL 9)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.09
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 7, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003810F
Test Report No.: ALPL/23062025/01-61

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-61	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	Beghar (Well No.-CL 10)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	147.55
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	130.15
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**131.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	20.89
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	9.95
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.05
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	44.64
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**826**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**414**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwar
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003810F
Test Report No.: ALPL/23062025/01-61

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-61 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	**Sampling Location** Beghar (Well No.-CL 10)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.27
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003811F
Test Report No.: ALPL/23062025/01-62

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-62	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	Kentukum (Well No.-CL 11)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	136.2
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	119.95
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**134.4**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	24.78
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	10.63
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.26
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	48.16
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**904**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**438**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwaj
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003811F
Test Report No.: ALPL/23062025/01-62

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-62	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	Kentukum (Well No.-CL 11)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.51
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwaj
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003812F
Test Report No.: ALPL/23062025/01-63

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-63 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	**Sampling Location** Visapur (Well No.-CL 12)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	158.9
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	127.30
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**107.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	25.75
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	8.16
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.14
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	32.29
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**710**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**374**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003812F
Test Report No.: ALPL/23062025/01-63

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-63	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	Visapur (Well No.-CL 12)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.09
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 4, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwaj
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.- TC129982500003813F
Test Report No.: ALPL/23062025/01-64

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/110625/W-2/64-64 **Inward Date** 11.06.2025 **Reference** WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025 **Inv. No.** 25	**Analysis Start** 12.06.2025 **Analysis End** 23.06.2025

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	Harasti (Well No.-CL 17)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group - Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	141.87
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	133.55
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**115.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	27.70
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	7.46
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.72
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	56.80
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**816**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**402**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues in Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks.

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.- TC129982500003813F
Test Report No.: ALPL/23062025/01-64

Dated 23.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/110625/W-2/64-64	**Analysis Start**	12.06.2025	
	Inward Date	11.06.2025	**Analysis End**	23.06.2025	
	Reference	WCL/HQ/ENV/14-L/1122-1148 Dt 19 Apr 2025			
	Inv. No.	25			

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Ballarpur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr. Tousif Khan Sampling Method:ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	Harasti (Well No.-CL 17)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues in Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.26
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification.** ● **LOQ= limit of quantification.** ● **Environmental condition – Satisfactory & Clear** ● **Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).** ● **pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.4, 12 & 14**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500003733F
Test Report No.: ALPL/20062025/06-39 Dated 20.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/09062025/W-1/54-39	**Analysis Start**	09.06.2025
	Inward Date	09.06.2025	**Analysis End**	20.06.2025
	Reference	WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025		
	Inv. No.	23		

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	ADITYA NAGAR RAMPUR (Well No-CB-59)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group- Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	158.9
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	62.22
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	48
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	17.49
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	5.27
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.55
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	19.94
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	492
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	192
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues In Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks .

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garwar
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500003733F

Test Report No.: ALPL/20062025/06-39 **Dated 20.06.2025**

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/09062025/W-1/54-39	**Analysis Start**	09.06.2025
	Inward Date	09.06.2025	**Analysis End**	20.06.2025
	Reference	WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025		
	Inv. No.	23		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	ADITYA NAGAR RAMPUR (Well No-CB-59)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues In Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.33
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is complying with IS 10500 (2012).**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garwar
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500003735F
Test Report No.: ALPL/20062025/06-41

Dated 20.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/09062025/W-1/54-41 **Inward Date** 09.06.2025 **Reference** WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025 **Inv. No.** 23	**Analysis Start** 09.06.2025 **Analysis End** 20.06.2025

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	**Sampling Location** MATHARA (Well No-CB-61)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group- Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	164.57
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	79.80
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	58.6
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	28.18
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	6.08
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.48
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	22.41
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**538**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**262**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues In Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks .

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500003735F
Test Report No.: ALPL/20062025/06-41 Dated 20.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/09062025/W-1/54-41	**Analysis Start**	09.06.2025
	Inward Date	09.06.2025	**Analysis End**	20.06.2025
	Reference	WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025		
	Inv. No.	23		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 30.05.2025 **Sampling Time** Not Mentioned	MATHARA (Well No-CB-61)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues In Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.29
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report ● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No. 12 & 14.**

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500003748F
Test Report No.: ALPL/20062025/06-53 **Dated 20.06.2025**

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/09062025/W-1/54-53	**Analysis Start**	09.06.2025
	Inward Date	09.06.2025	**Analysis End**	20.06.2025
	Reference	WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025		
	Inv. No.	23		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	JUNANA (Well No-CL-2)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group- Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	181.6
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	103.08
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	**155.2**
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	11.66
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	9.33
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	8.28
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	24.60
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	**714**
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	**436**
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues In Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks .

Verified By **Authorized Signatory**

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500003748F
Test Report No.: ALPL/20062025/06-53 **Dated 20.06.2025**

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/09062025/W-1/54-53	**Analysis Start**	09.06.2025
	Inward Date	09.06.2025	**Analysis End**	20.06.2025
	Reference	WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025		
	Inv. No.	23		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	JUNANA (Well No-CL-2)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues In Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	BLQ(LOQ-0.02)
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

NOTE: ● Please see watermark "Original Test Report" to confirm the authenticity of this report.● Results shall be referred to tested sample(s) and applicable to tested parameters only. ● Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ● Liability of Anacon Labs is limited to invoiced amount only. ● Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. ● #Permissible limit in absence of an alternate source for drinking water. ● 'mg/l' is equivalent to 'ppm'. ● **BLQ= below limit of quantification. ● LOQ= limit of quantification. ● Environmental condition – Satisfactory & Clear ● Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05). ● pH Value was measured at 25°C.**

REMARKS : As requested by the client, the sample was tested for the above parameters only. **Sample bearing the details mentioned as above is not complying with IS 10500(2012) requirements for the tests Sr. No.4, 12 & 14.**

Verified By
Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory
Chinmay Garway
Deputy Quality Manager

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

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TC-12998

Test Report

ULR No.-TC129982500003745F
Test Report No.: ALPL/20062025/06-50 Dated 20.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.** ALPL/09062025/W-1/54-50 **Inward Date** 09.06.2025 **Reference** WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025 **Inv. No.** 23	**Analysis Start** 09.06.2025 **Analysis End** 20.06.2025

Sample Description	Sample Details As Provided By Client	Purpose of analysis	Quantity Received
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		Sampling Location
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	MANNA (Well No-CL 14)

Tests Required Total Alkalinity(as Calcium carbonate), Colour, Chloride (as Cl), Calcium (as Ca), Free Residual Chlorine, Fluoride (as F), Magnesium (as Mg), Nitrate (as NO3), Odour, pH, Sulphate (as SO4), Total dissolved solids, Turbidity, Total hardness (as CaCO3), Phenolic compounds, Arsenic (as As), Aluminium (as Al), Boron (as B), Copper (as Cu).

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
I	**Discipline – Chemical**		**Group- Water**			
1	Total Alkalinity(as Calcium carbonate)	mg/l	IS 3025 (Part 23)	200	600	141.87
2	Colour	Hazen	IS 3025 (Part 4) : clause 4	5	15	BLQ(LOQ-1)
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :clause 2	250	1000	49.40
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : clause 5	75	200	48
5	Free Residual Chlorine	mg/l	IS 3025 (Part 26) : clause 7	0.2	1	BLQ(LOQ-0.1)
6	Fluoride (as F)	mg/l	IS 3025 (Part 60/sec1) : clause 6	1.0	1.5	BLQ(LOQ-0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : clause 6	30	100	13.60
8	Nitrate (as NO_3)	mg/l	IS 3025 (Part 34/Sec1) :clause 6.4	45	No relaxation	4.45
9	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
10	pH	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.57
11	Sulphate (as SO_4)	mg/l	IS 3025 (Part 24/Sec 1) : clause 5	200	400	18.99
12	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	466
13	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.1
14	Total hardness (as $CaCO_3$)	mg/l	IS 3025 (Part 21) clause 5	200	600	176
15	Phenolic compounds	mg/l	IS 3025 (Part 43/Sec1) : clause 6	0.001	0.002	BLQ(LOQ-0.001)
II	**Discipline – Chemical**		**Group- Residues In Water**			
16	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
17	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	BLQ(LOQ-0.02)
18	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ(LOQ-0.02)
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	BLQ(LOQ-0.02)

● Please refer last Page for Note and remarks .

Verified By

Snehal Raut
Technical Manager

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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TC-12998

Test Report

ULR No.-TC129982500003745F
Test Report No.: ALPL/20062025/06-50 Dated 20.06.2025

Issued To : **M/s Western Coalfields Limited (WCL)** Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440006	**Sample Inward No.**	ALPL/09062025/W-1/54-50	**Analysis Start**	09.06.2025
	Inward Date	09.06.2025	**Analysis End**	20.06.2025
	Reference	WCL/HQ/ENV/14-L/ 1122-1148 dt19 Apr 2025		
	Inv. No.	23		

Sample Description	**Sample Details As Provided By Client**	**Purpose of analysis**	**Quantity Received**
Ground Water	Ground Water (Chandrapur Area)	Drinking	1 Ltr

Sampling By		**Sampling Location**
Anacon Representative - Mr.Kartik Shrivas Sampling Method- ANtd/7.2/MON-01	**Sampling Date** 31.05.2025 **Sampling Time** Not Mentioned	MANNA (Well No-CL-14)

Tests Required Cadmium (as Cd),Iron (as Fe), Lead (as Pb), Manganese (as Mn), Nickel (as Ni), Selenium (as Se), Total Chromium (as Cr), Zinc (as Zn)

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Ground Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit #	
II	**Discipline – Chemical**		**Group- Residues In Water**			
20	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	BLQ(LOQ-0.002)
21	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.41
22	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
23	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	BLQ(LOQ-0.02)
24	Nickel (as Ni)	mg/l	IS 3025 (Part 2)	0.02	No relaxation	BLQ(LOQ-0.01)
25	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	BLQ(LOQ-0.01)
26	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2)	0.05	No relaxation	BLQ(LOQ-0.02)
27	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ(LOQ-0.02)

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REMARKS : As requested by the client, the sample was tested for the above parameters only. Sample bearing the details mentioned as above is complying with IS 10500 (2012).

Verified By

Dhanashree Hiwanj
Sr. Technical Assistant

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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

ORIGINAL TEST REPORT

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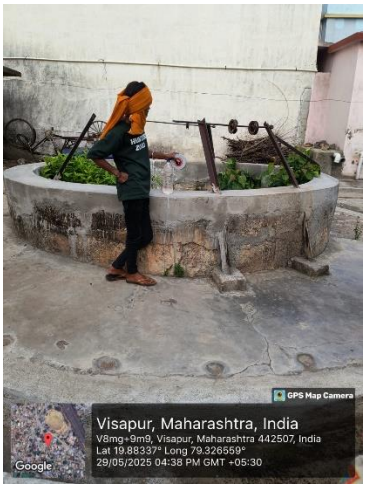


CL 12 - VISAPUR

CL 11 - KENTUKUM

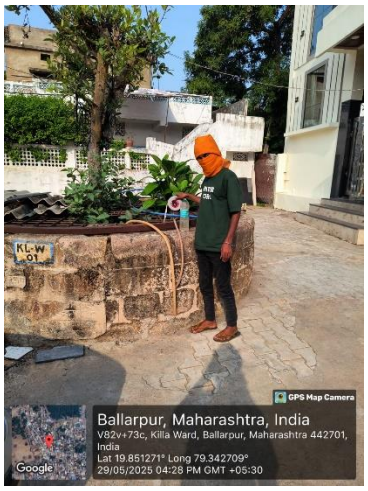
CL 10 - BEGHAR

CL 9 - DAHELI

CL 8 - KALMANA

CL 7 - NAV DAHLI

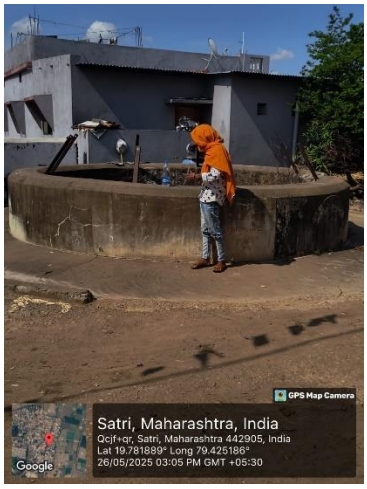
CL 6 - BALLARPUR



CL 5 - BALLARSAH

CL 4 - KARVA

BA 50 - CHUNALA



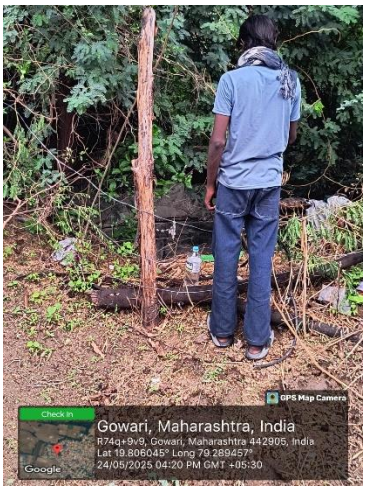
BA 49 - SATRI

BA 38 - Somthana

BA 37 - Botgaon (DCB)

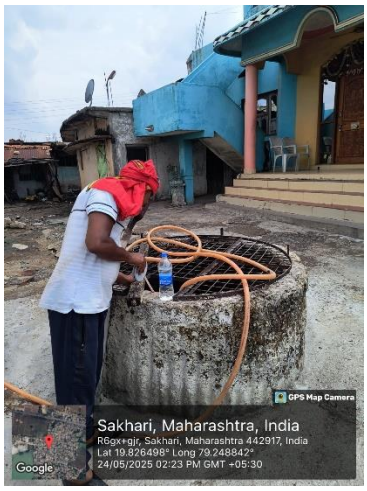
BA 36 - Rajura

BA 35 - Arvi



BA 23 - Gauri (PZ)

BA 21 - Pauni



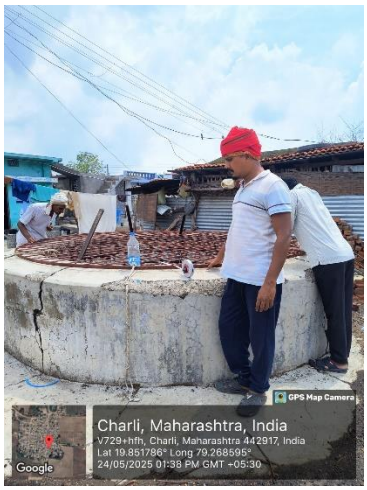
BA 20 A - Sakri

BA 19 - Manoli

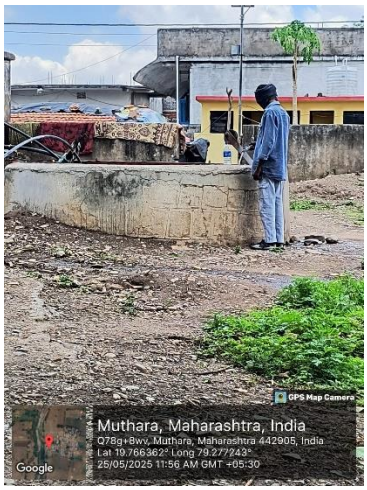
BA 29 - Antargoan Khurd

BA 18 - Babapur

BA 17 - Kadoli



BA 16 - Charli



CL 17 - HARASTI

CB 60 - SAKHARI

CB 59 - ADITYA NAGAR RAMPUR

CB 61 - MATHARA