



वेस्टर्न कोलफील्ड्स लिमिटेड/ **Western Coalfields Limited**

मिनीरत्न कंपनी (A Miniratna Company)

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

CIN-U10100MH1975GO1018626

उप क्षेत्रीय प्रबंधक कार्यालय, गोकुल खुली खदान,
मुरपार उप क्षेत्र, उमरेर क्षेत्र

Email: gokulmine15@gmail.com

संदर्भ सं. वे को लि/ उमरेर क्षेत्र/ उप क्षेत्र/ मुरपार/ गोकुल/2026-27/

**Office of Sub Area Manager, Gokul OC Mine,
Murpar Sub Area, Umrer Area**

PO: Besur, Tehsil: Bhowapur Dist.: Nagpur, PIN: 441214

दि. नं. 30/05/2026

To,

The Additional Principal Chief Conservator of Forests

Ministry of Environment, Forest & Climate Change (MoEF& CC)

Integrated Regional Office

Ground Floor, East Wing,

"New Secretariat Building",

Civil Lines, Nagpur - 440001 (M.S.)

**Sub: Six Monthly Environmental Compliance Report of Gokul OC Project for the period from
01/10/2025 to 31/03/2026.**

Dear Sir/Madam,

Please find enclosed herewith Six Monthly Environmental Compliance Report of Gokul OC Project for the period from 01/10/2025 to 31/03/2026.

It is requested that the same may kindly be taken on record and accepted.

Thanking you.

Yours Faithfully


30/5/2026
Sub Area Manager

Murpar Sub Area

WCL Umrer Area

Copy to:

1. General Manager (Env.), WCL, Nagpur
2. Area General Manager, WCL, Umrer Area
3. Area Nodal Officer (Env.), WCL, Umrer Area

**WESTERN COALFIELDS LIMITED
(MINIRATNA COMPANY)**

**SIX MONTHLY ENVIRONMENTAL
COMPLIANCE REPORT
(From 01/10/2025 to 31/03/2026)**

**IN RESPECT OF
GOKUL OPEN CAST PROJECT**

**MURPAR SUB AREA
UMRER AREA**

**Ministry of Environment, Forest & Climate Change
Regional Office (West Central Zone), Nagpur**

**Monitoring Report
DATA SHEET**

Name of the Project: Gokul Open Cast Mine, WCL

S.No.	Particulars	Details																												
1.	Project type: River-valley/ Mining/ Industry/ Thermal/ Nuclear/Other (specify)	Mining (Coal) Opencast Mine																												
2.	Name of the project	Gokul Open Cast Project																												
3.	Clearance letter (s)/OM No. & date	MOEF & CC OM No. J-1 1015/1001/2007-IA.II(M) pt dated 13 th February, 2017																												
4.	Location: a) Village b) Tehsil c) District d) State e) Location Latitude/Longitude	Piraya Bhivapur Nagpur Maharashtra 20° 39'32" to 20° 41'11" N 79° 16'53" to 79° 18'47" E																												
5.	Address for correspondence: a) Address of the Concerned Project Chief Engineer (with Pin Code & telephone/ telex/ fax numbers) b) Address of Executive Project Engineer/ Manager (with Pin Code/fax numbers)	Dy. GM (Min)/ Sub Area Manager, Gokul OCP P.O.-Khadsangi, Tahsil- Chimur, Dist: Chandrapur (MS) Phone: 07170 -230101 Manager, Gokul Open Cast Mine P.O.-Khadsangi, Tahsil- Chimur, Dist: Chandrapur (MS) Phone: 07170 -230101																												
6.	Salient features of the project	<table border="1"> <tbody> <tr> <td>i)</td> <td>Production Capacity</td> <td>1.875 MTPA</td> </tr> <tr> <td>ii)</td> <td>Capital Investment as per EC</td> <td>Rs.262.9210Crs</td> </tr> <tr> <td rowspan="7">iii)</td> <td>Total Mine Lease Area</td> <td>756.92 ha</td> </tr> <tr> <td>a) Agri (Tenancy) Land</td> <td>705.96 ha</td> </tr> <tr> <td>b) Waste Land (Govt. Land)</td> <td>33.06 ha</td> </tr> <tr> <td>c) Zudpi Jungle (Forest land)</td> <td>11.90 ha</td> </tr> <tr> <td>d) Outside ML area(Agricultural Land)</td> <td>5.00</td> </tr> <tr> <td>Total</td> <td>756.92 ha</td> </tr> <tr> <td rowspan="4">iv)</td> <td>Land use pattern during Mining</td> <td></td> </tr> <tr> <td>External OB dump</td> <td>123.90 ha</td> </tr> <tr> <td>Top Soil Dump</td> <td>30.75 ha</td> </tr> <tr> <td>Excavation</td> <td>291.21 ha</td> </tr> </tbody> </table>	i)	Production Capacity	1.875 MTPA	ii)	Capital Investment as per EC	Rs.262.9210Crs	iii)	Total Mine Lease Area	756.92 ha	a) Agri (Tenancy) Land	705.96 ha	b) Waste Land (Govt. Land)	33.06 ha	c) Zudpi Jungle (Forest land)	11.90 ha	d) Outside ML area(Agricultural Land)	5.00	Total	756.92 ha	iv)	Land use pattern during Mining		External OB dump	123.90 ha	Top Soil Dump	30.75 ha	Excavation	291.21 ha
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b) Of Environment Management Plan		Roads	39.00 ha
		Built up area	15.00 ha
		Undisturbed area	257.06 ha
		Total	756.92 ha
	v)	Work Force (Man Power)	240 Nos
	vi)	Life	11 Years
	vii)	Capital Outlay	Rs. 262.9210 Crs
	viii)	Method of mining	Open Cast Mining with Shovel Dumper combination
	ix)	Average Thickness of seam proposed to be worked (m)	
		Seam – II	4.0
		Seam – V	2.0
	x)	Average gradient of seam	1 in 7.5 to 1 in 12.5
	xi)	Quality of Coal Grade	
		Seam – II	G-7
		Seam – V	G-7
	xii)	Max proposed quarry depth(m)	100.00
	xiii)	Initial proposed quarry depth (m)	20.00
	xiv)	Net mineable reserves (Mt)	14.5
	xv)	Average stripping ratio (m ³ /t)	9.37
	xvi)	Water demand	
		a) Mine site requirement	550 m ³ /day
		b) Domestic requirement	34.05 m ³ /day
	xvii)	Mine water discharge on average (at final stage)	1845.95 m ³ /day
	i)	Public Hearing held on 11/11/08.	
	ii)	Consent to establish for 1.875 MTPA: Format 1.0/BO/CAC-CELL/RO(Nagpur)/CAC-0287 dated 04/03/17	
	iii)	First Consent to operate for 1.00 MTPA: Format 1.0/BO/ CAC-CELL/ RO(Nagpur)/ CAC-0287-A dated 04/03/17	
		First Consent to operate for 1.875 MTPA: Format1.0/BO/ CAC-Cell/ CAC-UAN No.43038/ CAC-1901000314 dated 05/01/2019.	
iv)	Environmental Clearance for 1.875 MTPA coal production issued by MOEF vide OM No. J-1 1015/1001/2007-IA.II(M) pt dated 13 th February, 2017		
v)	Land use pattern :(Post Mining)		
	External OB dump	123.90 ha	
	Top Soil Dump	30.75 ha	
	Excavation	291.21 ha	
	Roads	39.00 ha	
	Built up area	15.00 ha	

		Undisturbed area	257.06 ha															
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vi)	<p>Socio Economic Measures: <i>R&R for land oustees:</i></p> <ul style="list-style-type: none"> • 740.85 ha land notified u/s. 9 of CBA Act on 22nd November, 2010. Gazette published on 27th November, 2010. JMR completed. • Compensation bill against 695.96 ha tenancy land approved by MOC on 02.07.2014 for Rs.159 Crs. • Total 528 agreements executed out of 634. • 565 Employment/MC have been approved by District Collector, Nagpur on 04.09.2014 as per CIL R&R policy 2012. • Compensatory jobs provided: 431 nos • Monitory compensation provided: 100 nos • Total : 531 nos • Land compensation paid till date:165.50 Crore • Monitory compensation paid: 21.94 Crore <p>Flora & Fauna: This project is not likely to have any impact on diversity of flora and fauna species within terrestrial and aquatic habitats. The enhancement of forest area will occur due to measures like biological reclamation, afforestation and creation of greenbelt and avenue plantation. The water body created by the final voids will be beneficial to flora and fauna.</p> <p>However, Survey of existing vegetation around the core and buffer zones were made during the study period observed 10 km range of the Gokul OCP. The forest vegetation is of mixed deciduous type. It consists of mixture of a number of tall trees, small trees and shrubs. The ground forest area is generally rich after the monsoon as they are mostly in form of annual herbs.</p> <p>The flora consists of deciduous forest. The ground flora which comprises of annual or biennials have all dried up. The same is the case with the aquatic flora because the ponds and ditches are all dried up. The fields are completely parched or dry.</p> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Year of Quarry Operation</th> <th>Plantation on OB Dumps (Nos)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5th</td> <td>215000</td> </tr> <tr> <td>2</td> <td>10th</td> <td>626625</td> </tr> <tr> <td>3</td> <td>End of mine life</td> <td>726625</td> </tr> <tr> <td>4</td> <td>Post mining</td> <td>940100</td> </tr> </tbody> </table>			S.N.	Year of Quarry Operation	Plantation on OB Dumps (Nos)	1	5 th	215000	2	10 th	626625	3	End of mine life	726625	4	Post mining	940100
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viii	Pollution Control Measures																	
	a)	<i>Air/Dust pollution Control Measures:</i> Biological reclamation of OB dumps, Plantation																

			<p>along haul road, service road, OB dump, vacant land, township, industrial complex, Green belt around CHP, mobile and fixed water sprinkling on road, CHP, coal stock yard, workshop etc. Maintenance of HEMMs and transport vehicles.</p>
		b)	<p><i>Water Pollution Control Measures:</i> Sedimentation pond for mine water Treatment (Tender finalized yet to be commissioned), workshop ETP for industrial effluent treatment (Tender finalized yet to be commissioned), Domestic sewage disposal arrangement for the township.</p>
		c)	<p><i>Noise Pollution Control Measures:</i> Maintenance of HEMMs & Transport Vehicles. Development of green belt in between industrial complex & residential area, noise, absorbing pads for noise generating machines, ear plugs & helmets to the workers, noise cabins to the HEMM operators.</p>
		d)	<p><i>Control of ground water depletion:</i> Creation of ponds for storage of mine treated water for recharging water table.</p>
		e)	<p><i>Disaster Management Plan:</i> Diversion of rainwater falling within the project area from quarry area by providing garland drains and collection towards low lying area. Sufficient space has been left between proposed quarry boundary and nallah to construct flood protection embankment, if required. Controlled blasting technique has to be practiced to minimized fly off rocks and ground vibration and keep them within safe limits.</p>
		f)	<p><i>Progressive Mine Closure Plan:</i> Mine has started its operations from 25.05.2015. Progressive mine closure plan is being implemented. Final mine closure will be implemented 3 to 4 years before completion of mining.</p>
		g)	<p><i>Monitoring & Management of Organization:</i> For smooth working and handling of environment related jobs following organization is proposed:-</p> <p>A. Environmental Control</p> <ol style="list-style-type: none"> 1. Area General Manager, Umrer Area 2. Nodal Officer, (Environment), Umrer Area 3. Sub Area Manager, Gokul OC 4. Staff Officer (Civil), Umrer Area 5. Environmental Cell (WCL HQ) <p>B. Environmental Monitoring</p> <ol style="list-style-type: none"> 1. Area General Manager, Umrer Area

		<p>2. Staff Officer (Civil), Umrer Area 3. Nodal Officer, (Environment), Umrer Area 4. Sub Area Manager, Gokul OC 5. Environmental Cell (WCL HQ) 6. Environmental Laboratory of CMPDI, RI-IV</p> <p>C. Reclamation 1. Sub Area Manager, Gokul OC 2. Nodal Officer, (Environment), Gokul OC</p>																					
7.	Breakup of the project area	Agricultural Land: 711.96 ha Forest Land/ Zudpi Jungle: 11.90 ha Waste Land: 33.06 ha Total: 756.92 ha																					
8.	Breakup of the project affected population with enumeration of those losing houses/dwelling units only agricultural land only, both dwelling units & agricultural land & landless laborers/artisans: a) SC, ST/Adivasi b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	<ul style="list-style-type: none"> 740.85 ha land notified u/s. 9 of CBA Act on 22nd November, 2010. Gazette published on 27th November, 2010. Compensation bill against 695.96 ha tenancy land approved by MOC on 02.07.2014 for Rs.159 Crs. Total 528 agreements executed out of 634. 565 Employment/MC have been approved by District Collector, Nagpur on 04.09.2014 as per CIL R&R policy 2012. Compensatory jobs provided: 431 nos Monitory compensation provided: 100 nos Total : 531 nos Land compensation paid till date: 165.50 Crore Monitory compensation paid: 21.94 Crore 																					
9.	Financial details:																						
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs. 262.92Crs (Capital cost)																					
	b) Allocations made for Environmental Management Plan with item wise and year wise breakup	<p>Capital Cost</p> <table border="1"> <thead> <tr> <th>Sl.</th> <th>Particulars</th> <th>Amount (in 000's)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sedimentation pond for treatment of mine waste water</td> <td>750</td> </tr> <tr> <td>2</td> <td>Effluent treatment plant for treatment of workshop effluent</td> <td>750</td> </tr> <tr> <td>3</td> <td>Base line Env. Data generation (as per new guidelines) and Scientific studies related to environment.</td> <td>500</td> </tr> <tr> <td>4</td> <td>Installation of fixed type Sprinklers for dust control (including water reservoir, Pump, pipeline etc)</td> <td>1000</td> </tr> <tr> <td>5</td> <td>Plantation during First three year</td> <td>500</td> </tr> <tr> <td>6</td> <td>Digital Mapping for land use Plan</td> <td>555</td> </tr> </tbody> </table>	Sl.	Particulars	Amount (in 000's)	1	Sedimentation pond for treatment of mine waste water	750	2	Effluent treatment plant for treatment of workshop effluent	750	3	Base line Env. Data generation (as per new guidelines) and Scientific studies related to environment.	500	4	Installation of fixed type Sprinklers for dust control (including water reservoir, Pump, pipeline etc)	1000	5	Plantation during First three year	500	6	Digital Mapping for land use Plan	555
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			TOTAL	4055
		Revenue Cost : Provision for following works: i) Plantation ii) Environmental Monitoring/Auditing iii) Socio-Economic/Peripheral Development iv) Misc. Pollution Control Measures v) Compliance of statutory obligations like consent to operate fee, water cess payment, authorization etc.		
	c) Benefit Cost Ratio/ Internal rate of return and the year of assessment	-		
	d) Whether (C) includes the cost of Environmental Management as shown in the above.	-		
	e) Actual expenditure incurred on the Project so far	-		
	f) Actual expenditure incurred on the Environmental Management Plan so far	-		
10.	Forest land requirement			
	a) The status of approval for diversion of forest land for non-forestry use	The proposal for diversion of 11.90 ha of forest land was sent through APCF Government of Maharashtra vide No. Desk-17/NC/ID-12242/1263/13-14, Dated 01/11/13. Obtained Stage I on 30/04/15 and required amount of Rs.1,72,15,730.00 paid to CAMPON on 23/10/15.		
	b) The status of clearing felling	Not applicable in view of (a) above.		
	c) The status of Compensatory Afforestation, if any	---		
	d) Comments on the viability & sustainability of CA program in the light of actual field experience so far	---		
11.	The status of clearing felling in non-forest areas (Such as submergence area or reservoir, approach Roads.), if any with quantitative information required.	---		
12.	Status of construction (Actual &/or planned) a) Date of commencement b) Date of completion	Project Commissioned on 25/05/15. --		
13.	Reasons for delay if the project	No delay, Project has commissioned on 25/05/15.		
14.	Dates of site visits: a) The dates on which the project was monitored by the Regional Office on previous occasions, if any b) Date of site visits for this monitoring report	Project is visited by MoEF&CCofficials on 05/11/15.		

15.	Details of correspondence with project Authorities for obtaining act on plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits). (The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letter issued subsequently)	Project has commissioned on 25/05/15.
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**Compliance of Environmental Clearance conditions in respect of Gokul OC Project
of WCL as on 30/09/2025**

Ref: MOEF Environment Clearance Letter No.J-1 1015/1001 /2007-IA.II (M) dated 13th
February, 2017 and J-1 1015/1001 /2007-IA.II(M) dated 10th January, 2018

A. Specific Conditions:

S.No	Compliance Condition	Status																								
(i)	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	<p>Agreed.</p> <p>Production will not exceed the limit as prescribed in the EC i.e. 1.875 MT/Y.</p> <p>Coal production details since commencement of mine are as follows:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Coal production in MT</th> </tr> </thead> <tbody> <tr><td>2015-16</td><td>0.51</td></tr> <tr><td>2016-17</td><td>1.875</td></tr> <tr><td>2017-18</td><td>1.875</td></tr> <tr><td>2018-19</td><td>1.875</td></tr> <tr><td>2019-20</td><td>1.875</td></tr> <tr><td>2020-21</td><td>1.875</td></tr> <tr><td>2021-22</td><td>1.875</td></tr> <tr><td>2022-23</td><td>1.875</td></tr> <tr><td>2023-24</td><td>1.8075</td></tr> <tr><td>2024-25</td><td>1.875</td></tr> <tr><td>2025-26</td><td>1.875</td></tr> </tbody> </table>	Year	Coal production in MT	2015-16	0.51	2016-17	1.875	2017-18	1.875	2018-19	1.875	2019-20	1.875	2020-21	1.875	2021-22	1.875	2022-23	1.875	2023-24	1.8075	2024-25	1.875	2025-26	1.875
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(ii)	The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.	<p>Noted.</p> <p>Project was granted Environmental Clearance for 1.875 MTPA from MoEF & CC vide No. no: J -11015/1001/2007-IA.II (M) dated 13/02/2017. (Copy Enclosed as Annexure-I)</p>																								
(iii)	The project proponent shall produce Consent to Operate from the State Pollution Control Board for the existing production capacity of 1 MTPA and also the Consent to Establish for the proposed capacity of 1.875 MTPA prior to enhancing the production capacity.	<p>Complied.</p> <p>Consent to Establish has been secured from MPCB vide: Format1.0/ BO/ CAC-Cell/ RO (Nagpur)/ CAC-0287 dated 04/03/17 for 1.875 MTPA.</p> <p>Consent to operate has been granted by MPCB vide no. Format1.0/CAC/UAN No.MPCB CONSENT-0000268983/CR/2604002249 with validity upto 31/03/2027.</p> <p>(Copy enclosed as Annexure-II).</p>																								
(iv)	Transportation of coal should be carried out by covered trucks. Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads	<p>Being complied.</p> <p>All the vehicles transporting coal are properly covered with tarpaulin and are loaded within permissible limit. Monitoring of all the vehicles going out is done through camera surveillance. Presently water sprinkling for dust</p>																								

	by providing sufficient numbers of water sprinklers.	suppression on coal transportation and OB road is being done by 06 nos. of mobile sprinklers. In addition, 22 nos of fixed water sprinklers (Throw: 30 m) are also provided.																																																																		
(v)	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	<p>Being complied.</p> <p>Skill training as per safety norms specified by DGMS is being given to workmen including the outsourcing employees to ensure high safety standards in mines on regular basis.</p> <p>Number of persons given training in last 4 years are given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="3">No. of workers</th> </tr> <tr> <th>Departmental</th> <th>Contractual</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>40</td> <td>100</td> <td>140</td> </tr> <tr> <td>2021-22</td> <td>76</td> <td>357</td> <td>433</td> </tr> <tr> <td>2022-23</td> <td>43</td> <td>172</td> <td>215</td> </tr> <tr> <td>2023-24</td> <td>26</td> <td>188</td> <td>214</td> </tr> <tr> <td>2024-25</td> <td>13</td> <td>189</td> <td>202</td> </tr> <tr> <td>2025-26</td> <td>10</td> <td>2</td> <td>12</td> </tr> </tbody> </table> <p>For surveillance of occupation health among workers periodic medical examination is done for every employee once in three year as per statute in all the mines.</p> <p>Details of IME/PME done in last 08 years are given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">No. of workers</th> </tr> <tr> <th>IME</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>39</td> <td>33</td> </tr> <tr> <td>2017-18</td> <td>26</td> <td>10</td> </tr> <tr> <td>2018-19</td> <td>85</td> <td>45</td> </tr> <tr> <td>2019-20</td> <td>98</td> <td>31</td> </tr> <tr> <td>2020-21</td> <td>72</td> <td>29</td> </tr> <tr> <td>2021-22</td> <td>179</td> <td>74</td> </tr> <tr> <td>2022-23</td> <td>201</td> <td>56</td> </tr> <tr> <td>2023-24</td> <td>380</td> <td>50</td> </tr> <tr> <td>2024-25</td> <td>189</td> <td>75</td> </tr> <tr> <td>2025-26</td> <td>368</td> <td>40</td> </tr> </tbody> </table>	Year	No. of workers			Departmental	Contractual	Total	2020-21	40	100	140	2021-22	76	357	433	2022-23	43	172	215	2023-24	26	188	214	2024-25	13	189	202	2025-26	10	2	12	Year	No. of workers		IME	PME	2016-17	39	33	2017-18	26	10	2018-19	85	45	2019-20	98	31	2020-21	72	29	2021-22	179	74	2022-23	201	56	2023-24	380	50	2024-25	189	75	2025-26	368	40
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(vi)	Controlled blasting techniques should be adopted to control ground vibration and fly rocks.	<p>Being complied.</p> <p>Controlled blasting techniques with use of delay detonators are being practiced to control the ground vibration and to arrest the fly rocks.</p> <p>At present, permission from DGMS has been obtained & blasting is being carried out accordingly.</p>																																																																		
(vii)	A progressive afforestation plan shall be implemented covering an area of 376.04 Ha at the end of mining, which includes reclaimed External OB dump area (123.9 Ha), Internal OB dump area (115.39 Ha) and Green belt (Included in total plantation) and in township located	<p>Being complied.</p> <p>Gokul OC Mine is relatively new mine. Mine has started operations on 25/05/15 and backfilling of decoaled area and dumping on external dumps are in progress. Reclamation will start after dumping is finalized.</p>																																																																		

	<p>outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.</p>	<p>However, plantation on other sites is being done as per the availability of land. Till date, 2,15,000 nos of saplings have been planted on plain land and OB. Details are given below:</p> <table border="1" data-bbox="789 260 1430 590"> <thead> <tr> <th>Year of plantation</th> <th>No of plants</th> <th>Area in Ha</th> <th>Plantation site</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>25,000</td> <td>10.00</td> <td>Plain land</td> </tr> <tr> <td>2019-20</td> <td>50,000</td> <td>20.00</td> <td>Plain land</td> </tr> <tr> <td>2022-23</td> <td>20,000</td> <td>8.00</td> <td>Plain land</td> </tr> <tr> <td>2023-24</td> <td>50,000</td> <td>20.00</td> <td>Plain land</td> </tr> <tr> <td>2024-25</td> <td>45,000</td> <td>18.00</td> <td>OB Dump</td> </tr> <tr> <td>2025-26</td> <td>25,000</td> <td>10ha</td> <td>OB Dump/Benches</td> </tr> <tr> <td>Total</td> <td>2,15,000</td> <td>86.00</td> <td></td> </tr> </tbody> </table> <p>Plantation work is carried out through Madhya Pradesh Van Vikas Nigam.</p> <p>Further on, as proposed in the EMP, plantation will be done on external OB dumps, backfilled area, along road sides, vacant land and township by planting native species in consultation with State Forest Department. Density of the plants will be maintained at 2500 plants per ha.</p>	Year of plantation	No of plants	Area in Ha	Plantation site	2018-19	25,000	10.00	Plain land	2019-20	50,000	20.00	Plain land	2022-23	20,000	8.00	Plain land	2023-24	50,000	20.00	Plain land	2024-25	45,000	18.00	OB Dump	2025-26	25,000	10ha	OB Dump/Benches	Total	2,15,000	86.00	
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(viii)	<p>An estimated total 135.84 Mm³ of OB will be generated during the entire life of the mine. Out of which 41.75 Mm³ of OB will be dumped in one external OB Dumps an earmarked area covering 123.9 ha of land. 94.09 Mm³ of will be one internal OB dump in covering an area of 115.39 ha.</p> <p>The maximum height of external OB dump will not exceed 90 m and that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.</p>	<p>Being complied.</p> <p>Project has commenced on 25/05/15. Till September 2025, 126.309 Mm³ of OB has been generated. Out of which, 77.736 Mm³ of OB has been backfilled in the decoaled area, i.e in internal dumps. Rest of the OB has been stacked at external OB dump.</p> <p>The maximum height of external OB dump will not exceed 90 m and that for soft OB will not exceed 60 m.</p>																																
(ix)	<p>Of the total quarry area of 231.73 Ha (On floor) & 291.21 Ha (On surface), the backfilled quarry area of 115.39 ha shall be reclaimed with plantation in conformity with the post mining land use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.</p>	<p>Being complied.</p> <p>Till date, 2,15,000 nos of saplings have been planted. Details are given below:</p> <table border="1" data-bbox="789 1682 1430 1906"> <thead> <tr> <th>Year of plantation</th> <th>No of plants</th> <th>Area in Ha</th> <th>Plantation site</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>25,000</td> <td>10.00</td> <td>Plain land</td> </tr> <tr> <td>2019-20</td> <td>50,000</td> <td>20.00</td> <td>Plain land</td> </tr> <tr> <td>2022-23</td> <td>20,000</td> <td>8.00</td> <td>Plain land</td> </tr> <tr> <td>2023-24</td> <td>50,000</td> <td>20.00</td> <td>Plain land</td> </tr> <tr> <td>2024-25</td> <td>45,000</td> <td>18.00</td> <td>OB Dump</td> </tr> </tbody> </table>	Year of plantation	No of plants	Area in Ha	Plantation site	2018-19	25,000	10.00	Plain land	2019-20	50,000	20.00	Plain land	2022-23	20,000	8.00	Plain land	2023-24	50,000	20.00	Plain land	2024-25	45,000	18.00	OB Dump								
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<p>Plantation work is carried out through Madhya Pradesh Van Vikas Nigam.</p> <p>The mine has started operations on 25/05/15. The backfilled quarry will be reclaimed with plantation as per EMP in consultation with State Forest Department. Density of the plants will be maintained at 2500 plants per ha.</p>					

B. General Conditions:

S.No	Compliance Condition	Status
(a)	Mining	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	Agreed. Method of mining is opencast with shovel-dumper combination. There has been no change in scope of work and production programme beyond EC. No change in mining technology and scope of working will be made without prior approval of MOEF & CC.
(ii)	No change in the calendar plan including excavation, quantum of coal and waste should be made.	Agreed. No change in the calendar plan including excavation, quantum of mineral coal and waste will be made without prior approval of the MOEF&CC.
(iii)	Mining shall be carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).	Agreed. Mining is carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).
(iv)	A progressive Mine Closure Plan duly approved by the Ministry of Coal/ company Board as applicable should strictly be complied with.	Agreed. The detailed progressive mine closure plan has been incorporated in the approved Project Report along with a provision of Corpus Fund.
(b)	Land Reclamation	
(i)	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office.	Complied. A recent Land use/Land cover map is provided in Approved EMP. All the stipulated conditions will be implemented. Digital processing of the entire lease area using Remote sensing technique is being done regularly by CMPDIL. Reports of which are available on WCL website. The same is submitted to Ministry of Environment, Forest and Climate Change/ Regional Office on regular basis.

		Land Restoration / Reclamation monitoring report of Gokul OC mine based on satellite data for the year 2022 is enclosed as Annexure –III for your reference.												
(ii)	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.	Being complied. The mine has started operations on 25/05/15 and reclamation of backfilled area will start after the dumping is finalized. Till March 2025, 73.387 Mm ³ of OB has been backfilled in the decoaled area of mine.												
(iii)	Final mine void depth of 100 m shall be in conformity with the post mining land use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.	Agreed. Final mine void will be as per the approved Mining plan in coformity with the post mining land use plan. The proposed water body within decoaled void will be gently sloped and upper benches will be terraced and stabilized with plantation. Final mine void depth will not be more than 100 m.												
(iv)	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	Being complied. Till 30-09-2025, 6,758 Mm ³ of Top soil has been removed. Top soil removed till 2019-20, i.e. 4.172 Mm ³ of top soil has been stacked separately with average height of approx. 15 m. Top soil generated after 2020-21, i.e 2.586 Mm ³ of Top soil has been spread over the OB dump for the reclamation of external OB dump. Compliance status is being submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis along with the Six Monthly Compliance Report.												
(v)	Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all	Being Complied. Till date, 2,15,000 nos of saplings have been planted on plain land. Details are given below: <table border="1" data-bbox="781 1787 1427 1917"> <thead> <tr> <th>Year of plantation</th> <th>No of plants</th> <th>Area in Ha</th> <th>Plantation site</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>25,000</td> <td>10.00</td> <td>Plain land</td> </tr> <tr> <td>2019-20</td> <td>50,000</td> <td>20.00</td> <td>Plain land</td> </tr> </tbody> </table>	Year of plantation	No of plants	Area in Ha	Plantation site	2018-19	25,000	10.00	Plain land	2019-20	50,000	20.00	Plain land
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	along the mine lease area in a phased manner and shall be completed within first five years.	2022-23	20,000	8.00	Plain land												
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<p>Plantation work is carried out through Madhya Pradesh Van Vikas Nigam.</p> <p>The backfilled quarry will be reclaimed with plantation as per EMP in consultation with State Forest Department. Density of the plants will be maintained at 2500 plants per ha.</p> <p>The proposed water body of 40 ha of decoaled void shall be gently sloped and upper benches shall be terraced and stabilized with plantation.</p>																	
(c)	Emissions, Effluents, and Waste Disposal																
(i)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM ₁₀ and PM _{2.5} such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<p>Being complied.</p> <p>Presently water sprinkling for dust suppression on coal transportation and OB road is being done by 06 nos. of mobile sprinklers.</p> <p>In addition to this, 22 nos fixed water sprinklers (Throw: 30 m) are also provided.</p> <p>10 nos. of Trolley mounted Fog cannons have been deployed around coal stock yard, coal transportation road, loading point, etc.</p>															
(ii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.	<p>Being complied.</p> <p>Environmental Monitoring has started in September 2015. Monitoring is being carried out fortnightly basis.</p> <p>4 nos Ambient air quality monitoring stations have been established to monitor PM₁₀, PM_{2.5}, SO₂ and NO_x as per Environment (Protection) Act Amended Rule 2000 which are as follows.</p> <ul style="list-style-type: none"> • Besur Village • Contractor Camp • Nand Village • Polgaon <p>Maximum and minimum concentration of parameters (SPM, PM₁₀, NO_x, SO_x and PM_{2.5}) as per Environmental monitoring report (from Oct 24 to March 25) is as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Parameters</th> <th rowspan="2">Core Zone/ Buffer Zone</th> <th rowspan="2">Permissible limit</th> <th colspan="2">Concentration (24 hourly values in µg/m³)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Parameters	Core Zone/ Buffer Zone	Permissible limit	Concentration (24 hourly values in µg/m ³)		Min	Max					
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0(iii))	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	<p>Being complied.</p> <p>Data collected on air quality is being submitted regularly to the MOEF's Regional Office, Nagpur & MPCB etc as being practiced in all operating mines.</p> <p>The Monitoring Report is enclosed as Annexure-IV.</p> <p>Monitoring of heavy metals is being carried out once in six months by CMPDIL. Copy of heavy metal monitoring report is enclosed as Annexure – V.</p>																																									
(iv)	Transportation of the coal by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the coal so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately	<p>Being complied.</p> <p>BT road of 5.9 Km is constructed for the transportation of coal. All the vehicles transporting coal are loaded within permissible limit and trucks leaving the mine premises are covered with tarpaulin.</p>																																									

	<p>increasing the carrying capacity of such roads.</p> <p>Furthermore, transportation of coal by road should be carried out by covered trucks only. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.</p>	
(v)	<p>The pollution due to transportation road on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored.</p> <p>Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centers.</p>	<p>Being complied.</p> <p>Presently water sprinkling for dust suppression on coal transportation and OB road is being done by 06 nos. of mobile sprinklers. In addition to this, 22 nos fixed water sprinklers (Throw: 30 m), 10 nos. of Fog cannons are also provided.</p> <p>As per the present practice, the PUC certificate are obtained for all light, passenger vehicles, transportation vehicles and the same will be continued.</p>
(vi)	<p>Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.</p> <p>Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust.</p> <p>Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured. Drills shall be wet operated.</p>	<p>Being complied.</p> <p>Presently water sprinkling for dust suppression on coal transportation and OB road is being done by 06 nos. of mobile sprinklers. As well as 15 nos fixed water sprinklers (Throw: 30 m) are also provided.</p> <p>10 nos. of Trolley mounted Fog cannons have been deployed around coal stock yard, coal transportation road, loading point, etc.</p>
(vii)	<p>The Project Proponent should not alter the major channels around the site. Appropriate embankment should be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary should be of suitable dimensions and critical patches should be strengthened by stone pitching on the river front side and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.</p>	<p>There are no major channels around the project area.</p>
(viii)	<p>There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.</p>	<p>Being complied.</p> <p>The Mine sump (Capacity: 346 Million gallons) is unlined and have potential for augmentation of ground water resources. In addition a recharge sump of 3600 m3 has been constructed.</p>

(ix)	<p>The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.</p>	<p>Being complied. OB dumps are compacted with the help of dozers. It is a regular practice in all mines of Umrer Area.</p>
(x)	<p>Sufficient number of Gullies to be provided for better management of water. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site.</p> <p>Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation, retaining wall of adequate dimension to be constructed at the toe of OB Dumps and OB benches, as applicable, based on the rainfall data.</p>	<p>Complied.</p> <p>To arrest the flow of silt and sediments, following actions are taken:</p> <p>i) To arrest flow of silt & sediment during monsoon, catch drain of size (top width 2 m, bottom width 1 m & height 1 m) has been constructed.</p> <p>ii) The silt and sediment from OB benches are guided through cross drainage into the mine sump having sufficient capacity to allow settlement of suspended particles. The supernatant from these sumps is then pumped out on surface. This mine water is used for industrial purposes such as dust suppression, firefighting and plantation etc.</p> <p>iii) The drain and sump is being desilted regularly.</p>
(xi)	<p>Industrial waste water (CHP, workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents. Sewage treatment plant of adequate capacity shall be installed in the existing colony and offices.</p>	<p>Complied.</p> <p>The effluent from workshop is treated in ETP (capacity: 200 KLD) so as to conform to the prescribed standards. Oil & grease trap is provided.</p> <p>The quality of water is monitored fortnightly and adequate measures will be taken (if need arises) to maintain the quality of water within permissible limits.</p> <p>The Monitoring Report is enclosed as Annexure-IV</p>

		The domestic sewage disposal arrangement of 0.3 MLD capacity using Phytorid technology is provided in combined township of Umrer area where employees of Gokul OC project reside.																
(d)	Noise & Vibration Control																	
(i)	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.	<p>Being complied.</p> <p>Noise pollution control measures are being implemented. Workers engaged in blasting and drilling operations, operation of HEMM, etc are being provided with PPE like Ear plugs/ muffs.</p> <p>Numbers of Ear plugs issued in last 4 years are given below:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Ear Plugs issued</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>150</td> </tr> <tr> <td>2021-22</td> <td>100</td> </tr> <tr> <td>2022-23</td> <td>95</td> </tr> <tr> <td>2023-24</td> <td>150</td> </tr> <tr> <td>2024-25</td> <td>100</td> </tr> <tr> <td>2025-26</td> <td>30</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Year	Ear Plugs issued	2020-21	150	2021-22	100	2022-23	95	2023-24	150	2024-25	100	2025-26	30		
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(ii)	Controlled blasting techniques should be practiced with use of delay detonators to mitigate ground vibrations and fly rocks.	<p>Agreed.</p> <p>Controlled blasting techniques with use of delay detonators are practiced to control ground vibration and to arrest the fly rocks. Controlled Blasting Technique as permitted by DGMS is being adopted.</p>																
(iii)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	<p>Being complied.</p> <p>It is ensured that the biological clock of the villages is not disturbed as well as no floodlights are oriented in the direction of villages.</p> <p>Noise level monitoring station is established at contractor Camp. Day time & night time noise level data are monitored fortnightly as per Env. (protection) Amendment Rule, 2000. Report of the same is being submitted to MoEF&CC on six-monthly basis.</p> <p>The Monitoring Report is enclosed as Annexure-IV</p> <p>Noise levels are well within the prescribed limits for day light/night hours.</p>																
(iv)	Measures should be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in operations of Coal Handling Plants and HEMM, etc. should be provided with ear plugs / muffs.	<p>Being complied.</p> <p>Noise pollution control measures are being implemented. Workers engaged in blasting and drilling operations, operation of HEMM, etc are being provided with PPE like Ear plugs/ muffs.</p> <p>Numbers of Ear plugs issued in last 4 years are given below:</p>																

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		2021-22	100
		2022-23	95
		2023-24	150
		2024-25	100
		2025-26	30
I Occupational Health & Safety			
(i)	<p>Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.</p>	<p>Being complied.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p> <p>Moreover, for every new employee Initial Medical Examination (IME) is also carried out for both departmental and contractual employee as per the provisions of the statute.</p> <p>During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine examination of blood and urine.</p> <p>All the activities within the mine are carried out with complying safety aspect and regular awareness is created among employees regarding safety and to avoid any accidents. All the employees working in projects are provided with PPE like mask, ear muffs, helmets and protective shoes.</p> <p>Various national and International Days are observed to increase awareness and educate general population (e.g. No Tobacco Day/ No Smoking Day, World AIDS day, World Breast Feeding Week etc.).</p> <p>Regular Family Welfare (L.T.T.) Camps organized with the help of State Govt. Full Co-operation is extended to State Govt. for Pulse Polio immunization. Medical facilities are being extended to non-employees in all sorts of acute emergencies.</p> <p>The details of the set up at Umrer Area Hospital are as follows:</p> <ul style="list-style-type: none"> • Periodical Medical Examination (PME) Centres: 1 (Occupational Health Centres) • No. of Doctor engaged in Periodical Medical Examination: 3 • No. of Doctor trained in Periodical Medical Examination: 2 • No. of X-Ray machines (500 mA): 1 • No. of Audiometer units: 1 • No. of Spirometer units: 1 • No. of pathology Labs: 1 • No. of X-Ray Technicians: 1 • No. of Laboratory Technicians: 3 	

		<ul style="list-style-type: none"> No of ECG Technicians:2 <p>As seen from the above details that Area Hospital, Umrer Area, WCL is having all the infrastructural facilities to comply all the statutory obligations regarding occupational health survey of all employees.</p> <p>Details of IME/PME done in last 8 years are given below:</p> <table border="1" data-bbox="803 348 1409 758"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">No. of workers</th> </tr> <tr> <th>IME</th> <th>PME</th> </tr> </thead> <tbody> <tr><td>2016-17</td><td>39</td><td>33</td></tr> <tr><td>2017-18</td><td>26</td><td>10</td></tr> <tr><td>2018-19</td><td>85</td><td>45</td></tr> <tr><td>2019-20</td><td>98</td><td>31</td></tr> <tr><td>2020-21</td><td>72</td><td>29</td></tr> <tr><td>2021-22</td><td>179</td><td>74</td></tr> <tr><td>2022-23</td><td>201</td><td>56</td></tr> <tr><td>2023-24</td><td>380</td><td>50</td></tr> <tr><td>2024-25</td><td>189</td><td>75</td></tr> <tr><td>2025-26</td><td>368</td><td>40</td></tr> </tbody> </table>	Year	No. of workers		IME	PME	2016-17	39	33	2017-18	26	10	2018-19	85	45	2019-20	98	31	2020-21	72	29	2021-22	179	74	2022-23	201	56	2023-24	380	50	2024-25	189	75	2025-26	368	40
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(ii)	<p>Besides carrying out regular periodic health check-up of their workers, 20% 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 specialized agency /institution within the District/State and the results reported to this Ministry and to DGMS.</p>	<p>Being complied.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p> <p>Moreover, for every new employee Initial Medical Examination (IME) is also carried out for both departmental and contractual employee as per the provisions of the statute.</p> <p>Details of IME/PME done in last 8 years are given below:</p> <table border="1" data-bbox="803 1157 1409 1566"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">No. of workers</th> </tr> <tr> <th>IME</th> <th>PME</th> </tr> </thead> <tbody> <tr><td>2016-17</td><td>39</td><td>33</td></tr> <tr><td>2017-18</td><td>26</td><td>10</td></tr> <tr><td>2018-19</td><td>85</td><td>45</td></tr> <tr><td>2019-20</td><td>98</td><td>31</td></tr> <tr><td>2020-21</td><td>72</td><td>29</td></tr> <tr><td>2021-22</td><td>179</td><td>74</td></tr> <tr><td>2022-23</td><td>201</td><td>56</td></tr> <tr><td>2023-24</td><td>380</td><td>50</td></tr> <tr><td>2024-25</td><td>189</td><td>75</td></tr> <tr><td>2025-26</td><td>368</td><td>40</td></tr> </tbody> </table>	Year	No. of workers		IME	PME	2016-17	39	33	2017-18	26	10	2018-19	85	45	2019-20	98	31	2020-21	72	29	2021-22	179	74	2022-23	201	56	2023-24	380	50	2024-25	189	75	2025-26	368	40
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(iii)	<p>Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Supervisory staff shall be held responsible for ensuring compulsory wearing of dust mask.</p>	<p>Being complied.</p> <p>The persons exposed to dusty areas are provided with protective gears like dust masks with goggles which is also a statutory requirement.</p> <p>Skill training as per safety norms specified by DGMS is being given to workmen including the outsourcing employees to ensure high safety standards in mines on regular basis.</p> <p>Number of persons given training in last 6 years are given below:</p>																																			

		Year	No. of workers		
			Departmental	Contractual	Total
		2020-21	40	100	140
		2021-22	76	357	433
		2022-23	43	172	215
		2023-24	26	188	214
		2024-25	13	189	202
		2025-26	06	02	08
		For surveillance of occupation health among workers periodic medical examination is also being done for every employee once in three year as per statute in all the mines.			
(iv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc as applicable to the project. The housing may be in the form of temporary structures to be removed after the completion of the project as applicable.	Complied. Temporary housing is provided for construction labour with all necessary facilities.			
(v)	In case of outsourcing of work through MDO, the project proponent shall ensure the strict compliance enforcement of the above conditions.	Agreed.			
(f)	Biodiversity				
(i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan as applicable shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	Not applicable as there are no endangered flora/ fauna in core and buffer zone as per baseline data generated in EIA/EMP. As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna.			
(g)	Implementation of Action Plan as Per Public Hearing & CSR Activities				
(i)	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees should be compensated as per the norms laid out R&R Policy of the Company or the National R&R Policy or R&R Policy of the State Government, whichever is higher.	Being complied. All the tasks as per the Action Plan submitted during the Public Hearing are complied with. Land oustees are compensated as per the norms laid out R&R Policy of the Company. <ul style="list-style-type: none"> 740.85 ha land notified u/s. 9 of CBA Act on 22nd November, 2010. Gazette published on 27th November, 2010. Compensation bill against 695.96 ha tenancy land approved by MOC on 02.07.2014 for Rs.159 Crs. 			

		<ul style="list-style-type: none"> • Total 528 agreements executed out of 634. • 565 Employment/MC have been approved by District Collector, Nagpur on 04.09.2014 as per CIL R&R policy 2012. • Compensatory jobs provided: 431 nos • Monetary compensation provided: 100 nos • Total : 531 nos • Land compensation paid till date: 165.50 Crore • Monetary compensation paid: 21.94 Crore 																																		
(ii)	<p>The Board of every company shall ensure that the company spends, in every financial year, at least two per cent. Of the average net profits of the company made during the three immediately preceding financial years, in pursuance of its Corporate Social Responsibility Policy under Section 135 of the Companies Act, 2013, for the Socio Economic Development of the neighborhood Habitats which could be planned in consultation with the Panchayat of the local administration, and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. A report, in consonance with the format prescribed in Annexure of the Companies (Corporate Social Responsibility Policy) Rules, 2014, shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	<p>Being complied.</p> <p>Coal India Limited has framed an Environment Policy which is being complied with in all the mines.</p> <p>The activities undertaken for the specific villages adopted under CSR are displayed on the company website and are updated accordingly. Every year area-wise detailed CSR plan is prepared after due consultation with local beneficiaries. As such Gokul OC is no exception.</p> <p>In every year area-wise detailed CSR plan is prepared after due consultation with local beneficiaries. Umrer Area has spent the following under CSR in last 13 years:</p> <table border="1" data-bbox="873 926 1338 1499"> <thead> <tr> <th>Year</th> <th>Rs. In lakhs</th> </tr> </thead> <tbody> <tr><td>2025-26</td><td>136.36</td></tr> <tr><td>2024-25</td><td>22.45</td></tr> <tr><td>2023-24</td><td>59.50</td></tr> <tr><td>2022-23</td><td>54.79</td></tr> <tr><td>2021-22</td><td>46.84</td></tr> <tr><td>2020-21</td><td>53.17</td></tr> <tr><td>2019-20</td><td>64.80</td></tr> <tr><td>2018-19</td><td>12.01</td></tr> <tr><td>2017-18</td><td>15.84</td></tr> <tr><td>2016-17</td><td>6.09</td></tr> <tr><td>2015-16</td><td>8.46</td></tr> <tr><td>2014-15</td><td>39.98</td></tr> <tr><td>2013-14</td><td>216.88</td></tr> <tr><td>2012-13</td><td>152.98</td></tr> <tr><td>2011-12</td><td>85.80</td></tr> <tr><td>2010-11</td><td>49.59</td></tr> </tbody> </table> <p>*CSR funds for the year 2015-16 and 2016-17 were diverted to Swaccha Bharat Abhiyan.</p> <p>The activities broadly include:</p> <ul style="list-style-type: none"> • Construction of WBM and CC road at nearby villages • Construction of Well and Storage arrangement and pipe line for providing drinking water • Installation of RO plant at nearby villages and ZP schools. • Construction of Green Haat at village • Construction of Compound wall at ZP Schools. • Skill development training for nearby villagers. 	Year	Rs. In lakhs	2025-26	136.36	2024-25	22.45	2023-24	59.50	2022-23	54.79	2021-22	46.84	2020-21	53.17	2019-20	64.80	2018-19	12.01	2017-18	15.84	2016-17	6.09	2015-16	8.46	2014-15	39.98	2013-14	216.88	2012-13	152.98	2011-12	85.80	2010-11	49.59
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		Details enclosed as Annexure VI.
(iii)	The project proponent shall follow the mitigation measures provided in Office Memorandum No.Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Not applicable. There is no village in the mine lease area or surrounded by the mine lease area. Nearest village is approx. 500 m away from the mine boundary.
(iv)	The Project Proponent shall make necessary alternative arrangements, wherever required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court for acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.	Not applicable. There is no grazing land in the core zone of the project. So, there is no necessity of making alternate arrangement for livestock grazing.
(h)	Corporate Environment Responsibility	
(i)	The Company should have a well laid down Environment Policy approved by the Board of Directors.	Complied. Coal India Limited has framed an Environment Policy which is being complied within all the mines. Copy is enclosed as Annexure -VII.
(ii)	The Environment Policy should prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.	Complied. The Environment Policy includes standard operating procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
(iii)	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.	Complied. The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions is displayed on company website www.westerncoal.in .
(iv)	To have proper checks and balances, the Company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large.	Complied. To deal with environmental issues and for ensuring compliance with environmental clearance conditions, at corporate level (at HQ), there is a fully fledged Environment Department which is headed by General Manager (Env.) with a multi-disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.

		<p>At Area level, the Environmental management cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Murpar Sub Area, Staff Officer (Civil), Umrer Area.</p> <p>At Project level, it is headed by Sub-Area Manager, Murpar Sub Area and assisted by Mine Manager/Safety Officer, Murpar Sub Area, Survey Officer, Murpar Sub Area and Nodal Officer (Environment) of the project.</p>																				
(v)	<p>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 Organization.</p>	<p>Complied. The Environmental Management cell at corporate level is headed by GM (Env) and assisted by a multidisciplinary team of qualified and trained engineers under the control of Director (Tech.).</p> <p>At Area level, the cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Murpar Sub Area, Staff Officer (Civil), Umrer Area.</p> <p>At Project level, it is headed by Sub-Area Manager, Murpar Sub Area and assisted by Mine Manager/Safety Officer, Murpar Sub Area, Survey Officer, Murpar Sub Area and Nodal Officer (Environment) of the project.</p>																				
(vi)	<p>The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.</p>	<p>Being complied.</p> <p>The Action Plan for implementing EMP/EIA conditions are in built in the mining plan approved by Company Board.</p> <p>The funds earmarked for environment will not be diverted for other works.</p> <p>Expenditure incurred till date is given below:</p> <table border="1"> <thead> <tr> <th>Financial Year</th> <th>Expenditure (Rs. Lakhs)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td rowspan="2">2015-16</td> <td>23.52</td> <td>Construction of effluent treatment plant 200 KLD for Gokul opencast project under Murpar Sub Area of Umrer Area</td> </tr> <tr> <td>5.93</td> <td>Construction of settling tank for mine water for Gokul OCP of Murpar Sub Area of Umrer Area</td> </tr> <tr> <td rowspan="2">2016-17</td> <td>19.83</td> <td>Pipeline network and ground water storage tank for water sprinkling at Coal Stock Yard and Weigh Bridge at Gokul OCP of Murpar Sub Area of Umrer Area</td> </tr> <tr> <td>6.64</td> <td>Fixed type water sprinkling arrangement by providing rain guns at coal stock yard and weigh bridge at Gokul Opencast mine of Murpar Sub Area of Umer Area.</td> </tr> <tr> <td rowspan="3">2024-25</td> <td>10.39</td> <td>22 nos. of fixed Sprinklers</td> </tr> <tr> <td>9.43</td> <td>2 nos. of piezometers</td> </tr> <tr> <td>55.3</td> <td>1 no. of CAAQMS</td> </tr> </tbody> </table>	Financial Year	Expenditure (Rs. Lakhs)	Remarks	2015-16	23.52	Construction of effluent treatment plant 200 KLD for Gokul opencast project under Murpar Sub Area of Umrer Area	5.93	Construction of settling tank for mine water for Gokul OCP of Murpar Sub Area of Umrer Area	2016-17	19.83	Pipeline network and ground water storage tank for water sprinkling at Coal Stock Yard and Weigh Bridge at Gokul OCP of Murpar Sub Area of Umrer Area	6.64	Fixed type water sprinkling arrangement by providing rain guns at coal stock yard and weigh bridge at Gokul Opencast mine of Murpar Sub Area of Umer Area.	2024-25	10.39	22 nos. of fixed Sprinklers	9.43	2 nos. of piezometers	55.3	1 no. of CAAQMS
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		2025-26	51	10 nos. of Fog cannons
(i)	Statutory Obligations			
(i)	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law, if any, as may be applicable to this project.	Noted		
(ii)	This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, as applicable for this Mining project.	Not applicable.		
(iii)	The Project Proponent shall obtain Consent to Establish and Consent to Operate from the concerned State Pollution Control Board prior to commencement of mining operations and effectively implement all the conditions stipulated therein.	<p>Complied.</p> <p>Consent to Establish has been secured from MPCB vide: Format1.0/ BO/ CAC-Cell/ RO (Nagpur)/ CAC-0287 dated 04/03/17 for 1.875 MTPA.</p> <p>Consent to operate has been granted by MPCB vide no. Format1.0/CAC/UAN No.MPCB CONSENT-0000268983/CR/2604002249 with validity upto 31/03/2027.</p>		
(iv)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.	<p>Complied.</p> <p>Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/REN/1/2025/11581) which was valid up to 06/03/2026. Renewal application is under process.</p> <p>Copy of NOC is enclosed as Annexure-VIII.</p> <p>No surface water is being used for mining and allied works.</p>		
(v)	Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydro geological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.	<p>Complied.</p> <p>Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/REN/1/2025/11581) which was valid up to 06/03/2026.</p> <p>Copy of NOC is enclosed as Annexure-VIII</p> <p>Regular monitoring of ground water level from existing wells at Buffer zone done for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January).</p> <p>Quality of groundwater as per IS: 10500: 2012 is analysed once in a year.</p> <p>Ground water level and quality monitoring report is being sent to R.O., MoEF&CC, Nagpur along with the six monthly EC compliance report.</p>		

		Copy of Ground water level and quality monitoring report is enclosed as Annexure-IX.
(j)	Monitoring of Ambient Air & Water Quality and Reporting	
(i)	<p>Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards notified vide GSR 742(E) dated 25.09.2000 and as amended from time to time by the Central Pollution Control Board. The critical parameters as per the Notification such as PM₁₀, PM_{2.5}, NO_x, and SO_x etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.</p>	<p>Being complied. 4 nos Ambient air quality monitoring stations have been established to monitor PM₁₀, PM_{2.5}, SO₂ and NO_x as per Environment (Protection) Act Amended Rule 2000 which are as follows:</p> <ul style="list-style-type: none"> • Besur Village • Contractor Camp • Nand Village • Polgaon <p>The quality of mine pumped out water is monitored fortnightly and adequate measures will be taken (if need arises) to maintain the quality of water within permissible limits. Environment monitoring reports are sent to R.O, MoEF, Nagpur and MPCB on regular basis.</p> <p>Reports are enclosed as Annexure-IV.</p>
(ii)	<p>The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction.</p> <p>Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.</p>	<p>Noted for compliance. 01 no of CAAQMS has been commissioned for real time monitoring of Air quality.</p>
(iii)	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon</p>	<p>Being complied. Regular monitoring of ground water level from existing wells at 21 locations of Buffer zone is being done, for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January).</p> <p>Quality of groundwater as per IS: 10500: 2012 is analysed once in a year.</p> <p>Ground water level and quality monitoring report is being sent to R.O., MoEF & CC, Nagpur along with the six monthly EC compliance report.</p>

	(November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.	Copy of Ground water level and quality monitoring report is enclosed as Annexure-IX.
(iv)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table.	Complied. There are no springs and perennial nallahs flowing in and around the mine lease. The natural water bodies and or streams which are flowing in an around the village, will not be disturbed. There has been no impact on ground water level in buffer zone villages. However the water shortage in the villages (if any) will be supplemented by project authorities.
(v)	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Not applicable. There are no springs and perennial nallahs flowing in and around the mine lease.
(vi)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.	Being complied. Six monthly reports on the status of the implementation of the stipulated environmental safeguards are submitted regularly to Regional office of Ministry of Environment, Forest and Climate Change. The six monthly report for the period from April 2025 to September 2025 was submitted to MoEF & CC vide letter dated 29/11/2025.
(vii)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information / monitoring reports.	Noted.
(vii i)	The activities pertaining to development of green belt horticulture shall be reported to concerned DFO/Collector on six monthly basis from the date of commencement of mining operations.	Noted.
(k)	Miscellaneous	

(i)	For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years and submitted to the concerned authorities within 2 months of the completion of periodicity of monitoring. Similarly, the annual reports for the financial year should reach the office of the concerned authority on or before 1 st June of following year.	<p>Being complied. Half yearly monitoring reports are submitted to the concerned authorities regularly.</p> <p>The six monthly report for the period from March 2023 to Sep 2023 was submitted to MoEF & CC through email dated 30/11/2023 and The six-monthly report for the period from Oct'2023 to March'2024 was submitted to MoEF & CC through email dated 30/05/2024 and for the period 1/10/2024 to 31/03/2025 submitted vide letter dated 30/09/2024. and The six-monthly report for the period from April'2025 to October'2025 was submitted to MoEF & CC through email dated 30/11/2025</p>
(ii)	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	<p>Being complied.</p> <p>Efforts are being made for the uses of Solar energy and conventional light bulbs are replaced by LEDs to reduce energy consumption.</p> <p>01 no of 40 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at AGM Office of Umrer area and 01 no of 12 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at Area Hospital, Umrer Area.</p> <p>Copy of the commissioning report of solar plant is enclosed as Annexure - X.</p>
(iii)	The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted for compliance.
(iv)	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion/representation has been received while processing the proposal.	<p>Complied. A copy of Environmental Clearance letter has marked to concerned Panchayat vide letter no.WCL/ UA/ MUR/ GOCM/ 2017/ 2838 dated 25/02/17.</p> <p>Copy enclosed as Annexure – XI.</p>
(v)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar Office for 30 days.	Does not Pertain to the project.
(vi)	A copy of the EC letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar Office for 30 days.	Does not Pertain to the project.
(vii)	The EC letter shall be uploaded on the company's website. The, compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated	<p>Complied.</p> <p>The Environmental clearance letter and the six monthly compliance report had been uploaded on the company's website (www.westerncoal.in.) so as to bring the same in the public domain.</p>

	<p>at least once every six months so as to bring the same in public domain.</p> <p>The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO (ambient) and critical sectorial parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.</p>	<p>The monitoring reports of environmental quality parameters are also uploaded on the company's website.</p>
(vii i)	<p>The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.</p>	<p>Complied.</p> <p>Advertisements given in two Local News Papers:</p> <ol style="list-style-type: none"> 1. 'Lokmat' (Marathi daily, Nagpur) dated 17/02/17 2. 'The Hitvada' (English daily, Nagpur) dated 17/02/17 <p>(Copy Enclosed as Annexure: XII)</p>
(ix)	<p>The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the PP for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.</p>	<p>The environmental statement for each financial year is submitted regularly to the MOEF's Regional Office, Nagpur along with the status of compliance of EC conditions as being practiced in all operating mines.</p> <p>The Audit report for year 2024-25 was submitted online on 30/09/2025. (Enclosed as Annexure-XIII).</p>

INDEX

<i>S. NO.</i>	<i>TOPICS</i>	<i>PAGE NO.</i>
1.	Information and Salient Features of The Project (Data Sheet)	1-7
2.	Environmental Compliance Report	8-28
3.	Environmental Clearance Letter by MoEF & CC, New Delhi	Annexure-I
4.	Consent to Establish and Consent to Operate	Annexure-II
5.	Land Restoration / Reclamation monitoring report	Annexure-III
6.	Environmental Monitoring Report	Annexure-IV
7.	Heavy Metal Monitoring Report	Annexure-V
8.	CSR Activities	Annexure-VI
9.	Corporate Environment Policy	Annexure-VII
10.	NOC from GGWA	Annexure-VIII
11.	Ground Water Monitoring Report	Annexure-IX
12.	Commissioning Report of Solar Plant	Annexure-X
13.	Copy of EC letter sent to Gram Panchayat	Annexure-XI
14.	Advertisements given in Local News Papers	Annexure-XII
15.	Environment Audit Statement	Annexure-XIII

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd, 3rd
and 4th floor, Opp. Cine
Planet Cinema, Near Sion
Circle, Sion (E),
Mumbai-400022

RED/L.S.I (R35)/ Rev. RED/I.S./ (88.1)
No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000268983/CR/2604002249

Date: 23/04/2026

To,
M/s Western Coalfields Limited,
Gokul Opencast Mine,
40 A, Near Piraya Village,
Tal-Bhiwapur, Dist-Nagpur.



Sub: Renewal of Consent to Operate.

- Ref:**
1. Earlier Consent to Operate obtained vide UAN No. Format1.0/CAC/UAN No.MPCB-CONSENT-0000195598/CR/2502002261 dtd. 26/02/2025.
 2. Minutes of Part 1 of 18th CAC Meeting of 2025-26 (Booklet No. 18) dtd. 30/03/2026.

Your application No.MPCB-CONSENT-0000268983 Dated 04.12.2025

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

1. **The consent to renewal is granted for a period up to 31/03/2027**
2. **The capital investment of the project is Rs.344.7138 Crs. (As per Balance Sheet submitted by industry Existing CI is Rs. 255.79 Crs. + Increase in C.I. is Rs. 88.9238 Crs.)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Coal Mining	1.875	MTPA

(On lease area 756.92 hector)

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	5173	As per Schedule-I	Recycle to the maximum extent for Dust Suppression & Fire Fighting and remining on land for plantation/ gardening

Sr No	Description	Permitted	Standards to	Disposal
2.	Domestic effluent	6.90	As per Schedule-I	Soaked in soak pit

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

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

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
NA					

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

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	30	Lit/Day	Recycle	Sale to authorised party / CHWTSDf
2	35.3 Chemical sludge from waste water treatment	100	Kg/Day	Landfill	CHWTSDf
3	5.2 Wastes or residues containing oil	7	Kg/Day	Landfill	CHWTSDf

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. PP shall carry out over burden dump management as per CPCB guidelines.
11. PP shall carry out plantation as per EC condition before ensuing monsoon.
12. The applicant shall not carry out any excess production or new activity without obtaining Consent of the Board and without obtaining Environmental Clearance wherever it applicable.
13. PP shall ensure time bound compliance of conditions as imposed as per BG regime.
14. The applicant shall comply with the conditions of the Environmental Clearance granted by MoEF & CC ,Gol vide letter No.J-11015/1001/2007-IA.II(M) pt. dated 13.02.2017.
15. This consent is issued pursuant to the decision of the 18th CAC Meeting of 2025-26 (Booklet No. 18) dtd. 30/03/2026.
16. The applicant shall make an application for renewal of consent 120 days prior to date of expiry of the consent.

17. The industry shall create an Environment Cell by appointing an Environmental Engineer OR Expert for looking after day-to-day activities related to Environment OR Pollution control.

This consent is issued on the basis of information/documents submitted by the Applicant/Project Proponent, if it has been observed that the information submitted by the Applicant/Project Proponent is false, misleading or fraudulent, the Board reserves its right to revoke the consent & further legal action will be initiated against the Applicant/Project Proponent.



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Signed by: **Shri. Rahul Rekhawar**
Member Secretary
For and on behalf of,
Maharashtra Pollution Control Board
ms@mpcb.gov.in
2026-04-23 01:10:24 IST

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	2379982.00	MPCB-DR-39147	02/02/2026	NEFT

Previous balance consent fee of Rs. 498873/- as per UAN No. MPCB-CONSENT-0000195598 has been considered in this renewal of consent. Now balance consent fee of Rs. 1261579.80/- is with the Board and shall be considered at the time of the next renewal of consent.

Copy to:

1. Regional Officer, MPCB, Nagpur and Sub-Regional Officer, MPCB, Nagpur II
- They are directed to ensure the compliance of the consent conditions.
You shall visit mine for verification pointwise compliances with respect to B.G.'s
- points as per BG regime of mine and other reported non-compliances and initiate legal action separately through legal portal for observed non-compliances.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CAC desk -For record and website updation purposes.

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity of 200 CMD consisting of effluent collection tank- primary sedimentation tank-O & G chamber-settling tank-final treated effluent tank provided for treatment 200 CMD of workshop effluent and provided sedimentation tank for treatment of 4973 CMD of mine water.
- 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 treated effluent shall be recycle to the maximum extent for dust suppression & fire fighting and remining on land for plantation/Irrigation/gardening within premise after confirming above standards.
2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 6.90 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	4973.00
2.	Domestic purpose	6.90
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	200.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0.00

The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only. In no case treated / untreated sewage shall find it's way outside the premises.

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
0	NA		0.00	-	-	NA	-

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
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
- Coal handling plant provided with dust collector & automatic water sprinkler shall be operated
 - Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
 - Minerals shall be properly covered during transportation. Overloading of dumpers shall be avoided to prevent spillages.
 - The applicant shall carry out tree plantation along road side, around dumps or compulsory afforestation as per proposal approved by Forest Department.
 - Black topped metal roads provided shall be well maintained to prevent dust formation.
 - Slope of the over burden shall have slope not more than 28° to the horizontal. The overburden shall be covered by vegetation for stabilization
 - Correct type & quantity of explosive shall be used to avoid excess dust formation & vibration in the surrounding area.
6. Standards for Ambient Air Pollutants:
- The Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM), Sulphur dioxide (SO₂) 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, SO₂, NO_x, 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	C2R	Rs. 2.0 Lakh	15 days	Regular monitoring of ground water level and quality should be carried out by establishing the network of existing wells and constructing new piezometers during mining operations	6 Monthly	31/03/2029
2	C2R	Rs.5.0 Lakh	15 days	Catch drain and situation ponds of appropriate size should be constructed to arrest silt and sediment flow from soil, OB and mineral dumps. Water so collected should be utilized for watering of the mining area, roads green belt developers etc.	Regular Activity	31/03/2029
3	C2R	Rs.5.0 Lakh	15 days	Coal transportation shall be done by covered trucks. Overloading of shall be avoided to prevent spillages.	Regular Activity	31/03/2029
4	C2R	Rs.5.0 Lakh	15 days	Coal Handling Plant (CHP) and the loading/unloading areas shall be equipped with dust collectors and automatic water sprinkler systems.	Regular Activity	31/03/2029
5	C2R	Rs.5.0 Lakh	15 days	Convert and operate existing water sprinkling arrangement into chemical fogging arrangement (MgCl2)	Regular Activity	31/03/2029
6	C2R	Rs.5.0 Lakh	15 days	Adoption of Boswell / Bios wale technology on the road sides. Boswell is a land scape element of construction design, primarily a run off conveyance system by the sides of road, to remove dust and emissions	Regular Activity	31/03/2029
7	C2R	Rs.5.0 Lakh	15 days	Use of toppers/binders/surfactants on the top surface of coal pile on trucks carrying coal on road to minimize spillage during transportation	Regular Activity	31/03/2029

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
8	C2R	Rs.5.0 Lakh	15 days	To provide and operate CAAQMS station	Regular Activity	31/03/2029
9	C2R	Rs.5.0 Lakh	15 days	Over burden (OB) should be stacked at earmarked dumpsites only and should not be kept active for long period. Proper terracing of OB should be carried out so that the overall slope will come down to 28°. Over Burden shall be disposed by way of backfilling.	Regular Activity	31/03/2029
10	C2R	Rs.25.0 Lakh	15 days	Operation and Maintenance of pollution control system so as to maintain consented standards & towards compliance of consent conditions and EC conditions	Regular Activity	31/03/2029

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

If the above Bank Guarantee is not submitted within stipulated period, then 12% interest will be levied as a penalty as per circular dtd 29/02/2024 No.

BO/MPCB/AS(T)/Circular/B-240229FTS0122

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 siting 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. 18.11.2009 as amended.

This certificate is digitally & electronically signed.



**Land Restoration / Reclamation Monitoring of 08 Opencast Coal Mines
of Western Coalfields Limited producing less than 5 mcm (Coal+ OB)
per annum based on Satellite Data of the Year 2022**



**Submitted to
WESTERN COALFIELDS LIMITED**

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Land Restoration / Reclamation Monitoring of 08 Opencast Coal Mines of Western Coalfields Limited producing less than 5 mcm (Coal+ OB) per annum based on Satellite Data of the Year 2022

MARCH-2023



**Remote Sensing Cell
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CONTENTS

Executive Summary		iv-v
1.0	Background.	1
2.0	Objective	2
3.0	Methodology	2-5
4.0	Land Reclamation in WCL	6-7

List of Tables

Table-1	Project wise Land Reclamation Status	vi
Table-2	Area Statistics of Land Use Classes in OC Mines of WCL	08

List of Plates

Plate- 1	Land Use Map of Bhanegaon OCP	09
Plate- 2	Land Use Map of Singhori OCP	10
Plate- 3	Land Use Map of MKD-II OCP	11
Plate- 4	Land Use Map of New Sethia OCP	12
Plate- 5	Land Use Map of Ghugus OCP	13
Plate- 6	Land use Map of Pimpalgaon OCP	14
Plate-7	Land use Map of Datla OCP	15
Plate-8	Land use Map of Gokul OCP	16

List of Figures

Figure-01	Bar-Chart of Project wise Status	vii
Figure-02	Methodology of Land Reclamation Monitoring	03
Figure-03	Bar-Chart of Land Reclamation Status of Bhanegaon OCP	17
Figure-04	Bar-Chart of Land Reclamation Status of Singhori	17
Figure-04	Bar-Chart of Land Reclamation Status of MKD-II OCP	18
Figure-05	Bar-Chart of Land Reclamation Status of New Sethia OCP	18
Figure-06	Bar-Chart of Land Reclamation Status of Ghugus OCP	19

Figure-07	Bar-Chart of Land Reclamation Status of Pimpalgaon OCP	19
Figure-08	Bar-Chart of Land Reclamation Status of Datla OCP	20
Figure-09	Bar-Chart of Land Reclamation Status of Gokul OCP	20

List of Photographs

Photograph-1	Plantation on embankment in Bhanegaon OC	21
Photograph-2	Plantation along charcoal Transportation Road in Singhori OC	21
Photograph-3	Plantation along coal transportation Road in Singhori OC	22
Photograph-4	Plantation on Barren OB in MKD-II OC	22
Photograph-5	Plantation near mansarovar in New sethia OC	23
Photograph-6	Plantation on backfill in new Sethia OC	23
Photograph-7	Plantation OB Dump in Ghugus OC	24
Photograph-8	Plantation on embankment in Ghugus OC	24
Photograph-9	Plantation on embankment in Ghugus OC	25
Photograph-10	Plantation on backfill in Datla OC	25

Abbreviations	26
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Glossary	27-28
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Executive Summary

- 1.0 Project** Land restoration/ reclamation monitoring of 08 opencast mine in WCL producing less than 5 million cu.m. (Coal+OB) annually based on satellite data of the year 2022 on regular basis at an interval of three years.
- 2.0 Objective** Objective of the land restoration / reclamation monitoring is to assess the area of backfilled, plantation, social forestry, active mining area, water bodies, and distribution of wasteland, agricultural land and forest in the leasehold area of the projects. This will help in assessing the progressive status of mined land reclamation and to take up remedial measures, if any, required for environmental protection.
- 3.0 Salient Findings**
- Out of total 11 opencast projects producing less than 5 Million cu.m (Coal+OB) annually of WCL viz Yekona-I & II, New Majri UG to OC, Pauni-II (Expn) OC, Gokul OC, Singhori OC, Bhanegaon OC, MKD-II OC, New sethia OC, Ghugus OC, Pimpalgaon OC and Datla OC mine taken for land reclamation monitoring during the Year 2019-20: Yekona-I & II, New Majri UG to OC and Pauni-II (Expn) OC were included under category of those OC mines which are producing more than 5 Million cu.m (Coal+OB) together annually and report pertaining to status of land reclamation of these projects is being submitted separately since year 2021 along with other OC mines of similar category.
 - Out of the total mine leasehold area of 3461.72 Hectare of the 08 OC projects Viz. Bhanegaon OC, Singhori OC, MKD-II OC, New Sethia OC, Ghugus OC, Pimpalgaon OC and Datla OC and Gokul OC mine taken up for land reclamation monitoring during year-2022-23; total excavated area is 964.19 Ha (27.85%). Out of this excavated area, 103.38 Ha area (10.72%) has been planted on backfill, 462.47 Ha area (47.96%) is under backfilling and balance 398.34 Ha area (41.32%) is under active mining. It is evident from the analysis that 565.85 Ha (58.69%) area of the above OC projects has already been reclaimed (biologically and technically) and balance 398.34 Ha (41.32%) area is under active mining. Project wise details are given in Table-1 & Bar chart (Fig-1).

- On comparing the status of land reclamation for 08 no. of opencast projects in WCL carried out in the year 2022-23 with respect to previous cycle study done in the year 2019-20 in these projects of WCL, it is evident from the analysis that area under land reclamation has increased from 511.10 hectares (Yr. 2019) to 565.85 hectares (Yr. 2022) which includes both plantation on backfill (Biological Reclamation) and area under backfilling (Technical Reclamation).
- It has been observed that area under plantation on backfill (Biological Reclamation) has increased from 88.96 Ha (10.70%) in the Yr. 2019 to 103.38 Ha (10.72%) in the year 2022 whereas area under technical reclamation (area under backfilling) has increased from 422.14 Ha (50.77%) in the year 2019 to 462.47 Ha (47.96%) in the Year 2022. This increase of 14.42 Ha in area of plantation on backfill and 40.33 Ha area under backfilling is the result of the sincere efforts made by Western Coalfields Ltd towards total land reclamation in all OC mines.
- Overall, the area under green cover has gone up from 649.91 Ha in the year 2019 to 736.35 Ha in the year 2022 which shows the sincere effort made by WCL towards environmental protection in their OC projects.
- Total area under reclamation in WCL has gone up from 511.10 Hectares (61.47%) in the year 2019 to 565.85 Hectares (58.69%) in the year 2022.

Table:1
Project wise Land Reclamation Status in OC mine in Western Coalfields Limited
(< 5 Million cu.m (Coal+ OB) together) based on Satellite data of the year 2022

(Area in Ha)

Sl.No	Project	Total Leasehold Area		Technical Reclamation		Plantation						Area under Active Mining		Total Excavated Area		Total Area under Plantation (% Green Cover Generated in Leasehold)		Total Area under Reclamation	
						Biological Reclamation		Other Plantations											
						Area under Backfilling		Plantation on Excavated / Backfilled Area	Plantation on External Over Burden Dumps	Social Forestry, Awanue Plantation Etc.									
1	2	3		4		5		6		7		8		9 (=4+5+8)		10 (=5+6+7)		11(=4+5)	
		2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022	2019	2022
1	Bhanegaon	347.46	347.46	2.45	1.18	0.00	0.00	8.75	16.54	16.11	20.74	31.82	34.86	34.27	36.04	24.86	37.28	2.45	1.18
				7.15%	3.27%	0.00%	0.00%					92.85%	96.73%			7.15%	10.73%	7.15%	3.27%
2	Singhori	425.04	425.04	0.00	0.00	0.00	0.00	0.00	0.00	4.59	7.63	26.82	50.56	26.82	50.56	4.59	7.63	0.00	0.00
				0.00%	0.00%	0.00%	0.00%					100.00%	100.00%			1.08%	1.80%	0.00%	0.00%
3	Makardhokra-II	258.23	258.23	44.61	57.75	2.90	0.00	58.76	47.14	2.57	2.57	6.91	0.00	54.42	57.75	64.23	49.71	47.51	57.75
				81.97%	100.00%	5.33%	0.00%					12.70%	0.00%			24.87%	19.25%	87.30%	100.00%
4	New Sethia	144.45	144.45	25.99	30.65	23.58	18.92	6.80	7.01	9.53	10.15	40.81	41.65	90.38	91.22	39.91	36.08	49.57	49.57
				28.76%	33.60%	26.09%	20.74%					45.15%	45.66%			27.63%	24.98%	54.85%	54.34%
5	Ghugus	1020.00	1020.00	267.70	258.74	55.38	73.22	135.00	136.64	84.91	125.20	35.77	26.89	358.85	358.85	275.29	335.06	323.08	331.96
				74.60%	72.10%	15.43%	20.40%					9.97%	7.49%			26.99%	32.85%	90.03%	92.51%
6	Pimpalgaon	451.87	451.87	13.33	13.34	0.00	0.00	136.11	149.76	80.32	79.62	46.25	54.23	59.58	67.57	216.43	229.38	13.33	13.34
				22.37%	19.74%	0.00%	0.00%					77.63%	80.26%			47.90%	50.76%	22.37%	19.74%
7	Datla	57.75	57.75	28.21	25.32	7.10	11.24	0.00	0.00	0.00	0.00	13.21	11.95	48.52	48.51	7.10	11.24	35.31	36.56
				58.14%	52.20%	14.63%	23.17%					27.23%	24.63%			12.29%	19.46%	72.77%	75.37%
8	Gokul	756.92	756.92	39.85	75.49	0.00	0.00	0.00	0.00	17.50	29.97	118.78	178.20	158.63	253.69	17.50	29.97	39.85	75.49
				25.12%	29.76%	0.00%	0.00%					74.88%	70.24%			2.31%	3.96%	25.12%	29.76%
	TOTAL	3461.72	3461.72	422.14	462.47	88.96	103.38	345.42	357.09	215.53	275.88	313.46	398.34	831.47	964.19	649.91	736.35	511.10	565.85
				50.77%	47.96%	10.70%	10.72%					37.70%	41.32%	24.02%	27.85%	18.77%	21.27%	61.47%	58.69%

(% is calculated with respected to Excavated Area as applicable)

Note : In reference of the above Table-1, different parameters are classified as follows

- 1.Area under Biological Reclamation includes area under plantation done on backfilled area only.
- 2.Area under T echnical Reclamation includes areas under barren backfill only.
- 3.Area under Active Mining includes coal quarry, advance quarry & quarry filled with water etc.
- 4.Social forestry and plantation on external OB dump are not included in biological reclamation and are put under other plantation.
- 5.% claculated in respect to total excavated area except for "T otal area under plantation" where % has been calculated in terms of leasehold area.

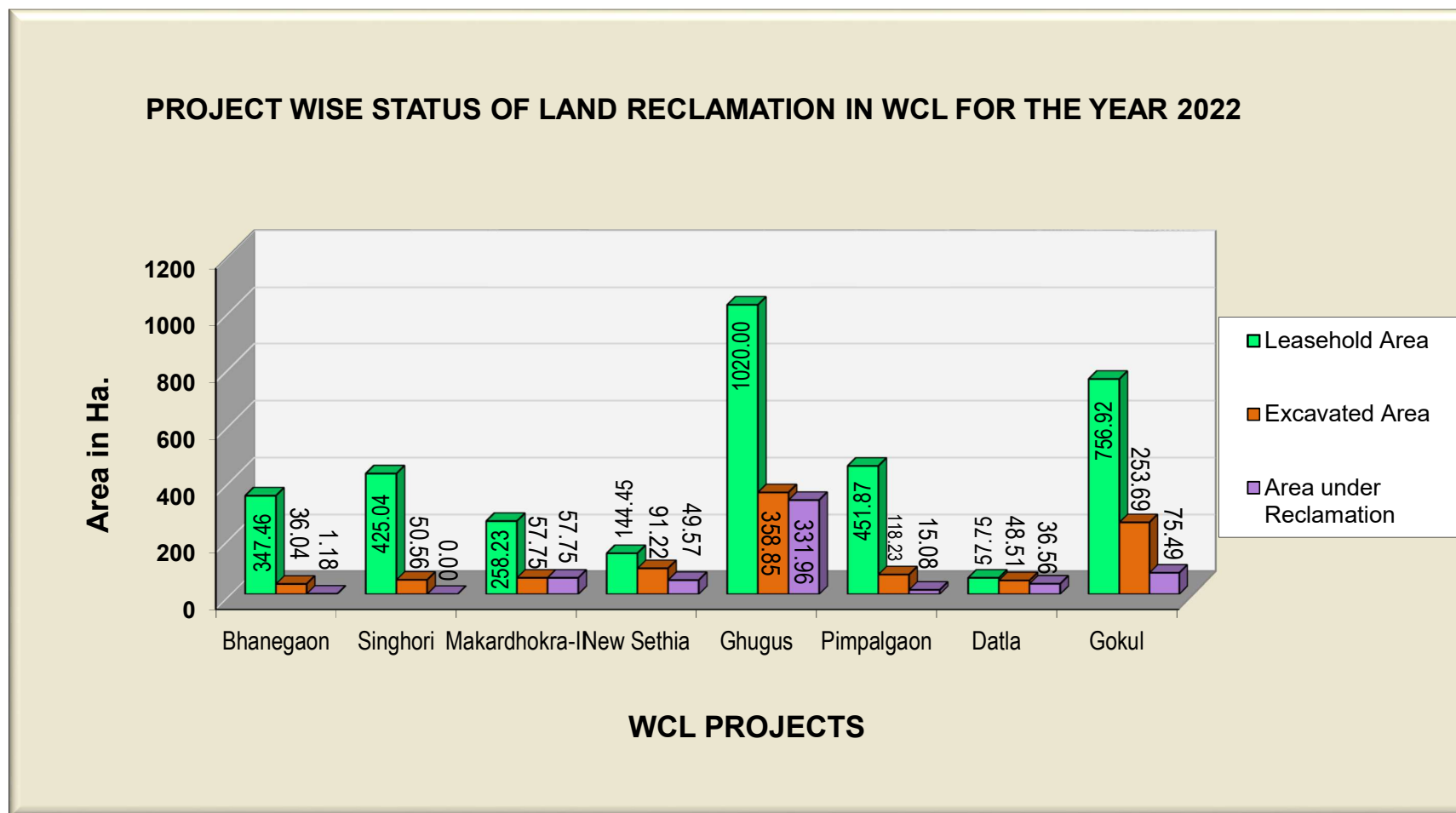


Figure: 1 Land Reclamation status in OC projects producing (less than 5 m.cm (Coal+ OB)) of WCL in the year-2022

1.0 Background

- 1.1 Land is the most important natural resource which embodies soil, water, flora fauna and total ecosystem. All human activities are based on the land which is the scarcest natural resource in our country. Mining is a site specific industry and it could not be shifted anywhere else from the location where mineral occurs. It is a fact that surface mining activities do effect the land environment due to ground breaking. Therefore, there is an urgent need to reclaim and restore the mined out land for its productive use for sustainable development of mining. This will not only mitigate environmental degradation, but would also help in creating a more congenial environment for land acquisition by coal companies in future.
- 1.2 Keeping above in view, Coal India Ltd. (CIL) issued a work order vide letter no. CIL/WBP/Env/2011/4706 dated 12.10.12 to Central Mine Planning & Design Institute (CMPDI), Ranchi, for monitoring land reclamation status of all the opencast coal mines having production of less than 5 million m³ per annum (coal + OB taken together per annum) regularly on annual basis and less than 5 million m³ per annum (coal + OB taken together per annum) at interval of three years based on remote sensing satellite data, for sustainable development of mining. Further a revised work order vide letter no:CIL/WBP/Env/2017/DP/8477 dated 21.09.2017 from coal india Ltd for the period of 2017-18 to 201-22 for land reclamation monitoring of opencast projects and 19 major coalfields. According to this work order all mines in CIL with output capacity of 5 million cu.m (coal+OB) shall be monitored every year and all mines below this capacity shall be monitored at an interval of three years. The work order was renewed vide letter no. CIL/ ENVT/2022-23/W.O/10899 dated 06.07.2022 for a period of 2 more years from 2022-23 to 2023-24. The result of land reclamation status of all such mines to be put on the website of CIL, (www.coalindia.in), CMPDI (www.cmpdi.co.in) and the concerned coal companies in public domain. Detail report to be submitted to Coal India and respective subsidiaries.

- 1.3** Land reclamation monitoring of all opencast coal mining projects would also comply the statutory requirements of Ministry of Environment, Forest & Climate Change (MoEF & CC). Such monitoring would not only facilitate in taking timely mitigation measures against environmental degradation, but would also enable coal companies to utilize the reclaimed land for larger socio-economic benefits in a planned way.
- 1.4** Present report is embodying the finding of the study based on satellite data of the Year 2022 carried out for all the OC projects producing less than 5 mcm (Coal+OB) for Western Coalfields Ltd.

2.0 Objective

Objective of the land reclamation/restoration monitoring is to assess the area of backfilled, plantation, OB dumps, social forestry, active mining area, settlements and water bodies, distribution of wasteland, agricultural land and forest land in the leasehold area of the project. This is an important step taken up for assessing the progressive status of mined land reclamation and for taking up remedial measures, if any, required for environmental protection.

3.0 Methodology

There are number of steps involved between raw satellite data procurement and preparation of final map. National Remote Sensing Centre (NRSC) Hyderabad, being the nodal agency for satellite data supply in India, provides only raw digital satellite data, which needs further digital image processing for extracting the information and map preparation before uploading the same in the website. Methodology for land reclamation monitoring is given in given in figure-2. Following steps are involved in land reclamation /restoration monitoring:

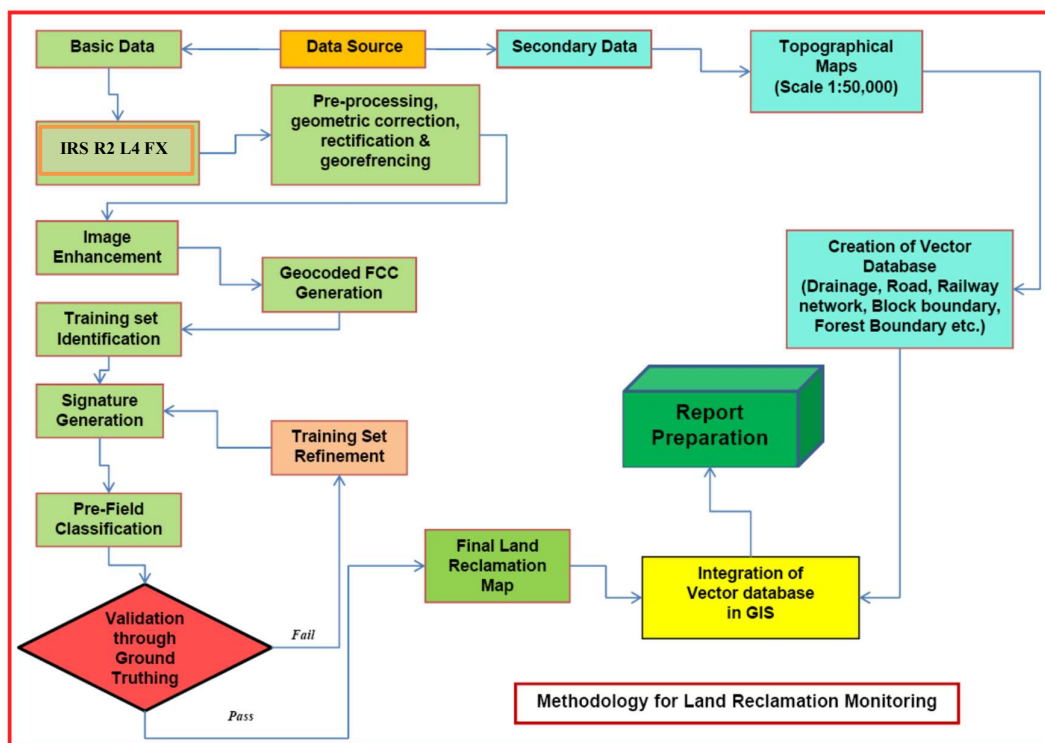


Figure :2 Methodology for Land Reclamation Monitoring

3.1 Data Procurement: After browsing the data quality and date of pass on internet, supply order for data is placed to NRSC. Secondary data like leasehold boundary area arranged from respective subsidiaries/RIs and topo sheets are procured for creation of vector database.

3.2 Satellite Data Processing: Satellite data are processed using ERDAS IMAGINE version 2014 digital image processing s/w. Methodology involves the following major steps:

- **Rectification & Georeferencing:** Inaccuracies in digital imagery may occur due to 'systematic errors' attributed to earth curvature and rotation as well as 'non-systematic errors' attributed to satellite receiving station itself. Raw digital images contain geometric distortions, which make them unusable as maps. Therefore, georeferencing is required for correction of image data using ground control points (GCP) to make it compatible to Sol toposheet.

- **Image enhancement:**

To improve the interpretability of the raw data, image enhancement is necessary. Local operations modify the value of each pixel based on brightness value of neighbouring pixels using ERDAS IMAGINE 2014 s/w. and enhance the image quality for interpretation.

- **Training set selection**

Training set requires to be selected, so that software can classify the image data accurately. The image data are analysed based on the interpretation keys. These keys are evolved from certain fundamental image-elements such as tone/colour, size, shape, texture, pattern, location, association and shadow. Based on the image-elements and other geo-technical elements like land form, drainage pattern and physiography; training sets were selected/identified for each land use/cover class. Field survey was carried out by taking selective traverses in order to collect the ground information (or reference data) so that training sets are selected accurately in the image. This was intended to serve as an aid for classification.

- **Classification and Accuracy assessment**

Image classification is carried out using the maximum likelihood algorithm. The classification proceeds through the following steps: (a) calculation of statistics [i.e. signature generation] for the identified training areas, and (b) the decision boundary of maximum probability based on the mean vector, variance, covariance and correlation matrix of the pixels. After evaluating the statistical parameters of the training sets, reliability test of training sets is conducted by measuring the statistical separation between the classes that resulted from computing divergence matrix. The overall accuracy of the classification was finally assessed with reference to ground truth data.

- **Area calculation**

The area of each land use class in the leasehold of respective mines is determined by using ERDAS IMAGINE v. 2014 software.

- **Overlay of Vector data base**

Vector data base created based on secondary data. Vector layer like drainage, railway line, leasehold boundary, forest boundary etc. are superimposed on the image as vector layer in the Arc GIS database.

- **Pre-field map preparation**

Pre-field map is prepared for validation of the classification result

3.3 Ground Truthing:

Selective ground verification of the land use classes are carried out in the field and necessary corrections if required, are incorporated before map finalization.

3.4 Land reclamation database on GIS:

Land reclamation status database is created on GIS platform to identify the temporal changes identified from satellite data of different cut-of dates like year 2016, 2019 and 2022.

4.0 Land Reclamation Status in Western Coalfields Ltd.

4.1 Following eight opencast projects producing less than 5 million cubic m. (Coal + OB together) of Western Coalfields Ltd. have been taken up for land reclamation monitoring during the year 2022-23:

- Bhanegaon
- Singhori
- Makardhokra-II
- New Sethia
- Ghugus
- Pimpalgaon
- Datla
- Gokul

4.2 Area statistics of different land use classes present in the mine leasehold of the above projects for the year 2022 are shown in the Table - 2. Land use maps derived from satellite data are shown in Plate 1– 8. Status of land reclamation monitoring for the above mentioned 08 opencast projects were also prepared for the year 2016, 2019. Year wise changes in the different land use classes based on satellite data of the year 2016, 2019 and 2022 are depicted in Bar Charts in Fig. 3 – 10





















4.3 Study reveals that out of total mine leasehold area of 3461.72 Ha of 08 OC projects in WCL Viz. Bhanegaon, Singhori, Makardhokra-II, New Sethia, Ghugus, Pimpalgaon, Datla and Gokul OC considered for monitoring during year 2022-23; total excavated area is 964.19 Ha (27.85%), out of which 103.38 Ha (10.72%) area has been revegetated (Biologically reclaimed) and 462.47 Ha (47.96%) area is under backfilling (Technically reclaimed) and balance 398.34 Hectare (41.32%) area is under active mining. It is evident from analysis that 565.85 Hectare (58.69%) area of above OC projects is under total reclamation in WCL. Project wise details are given in Table-1.

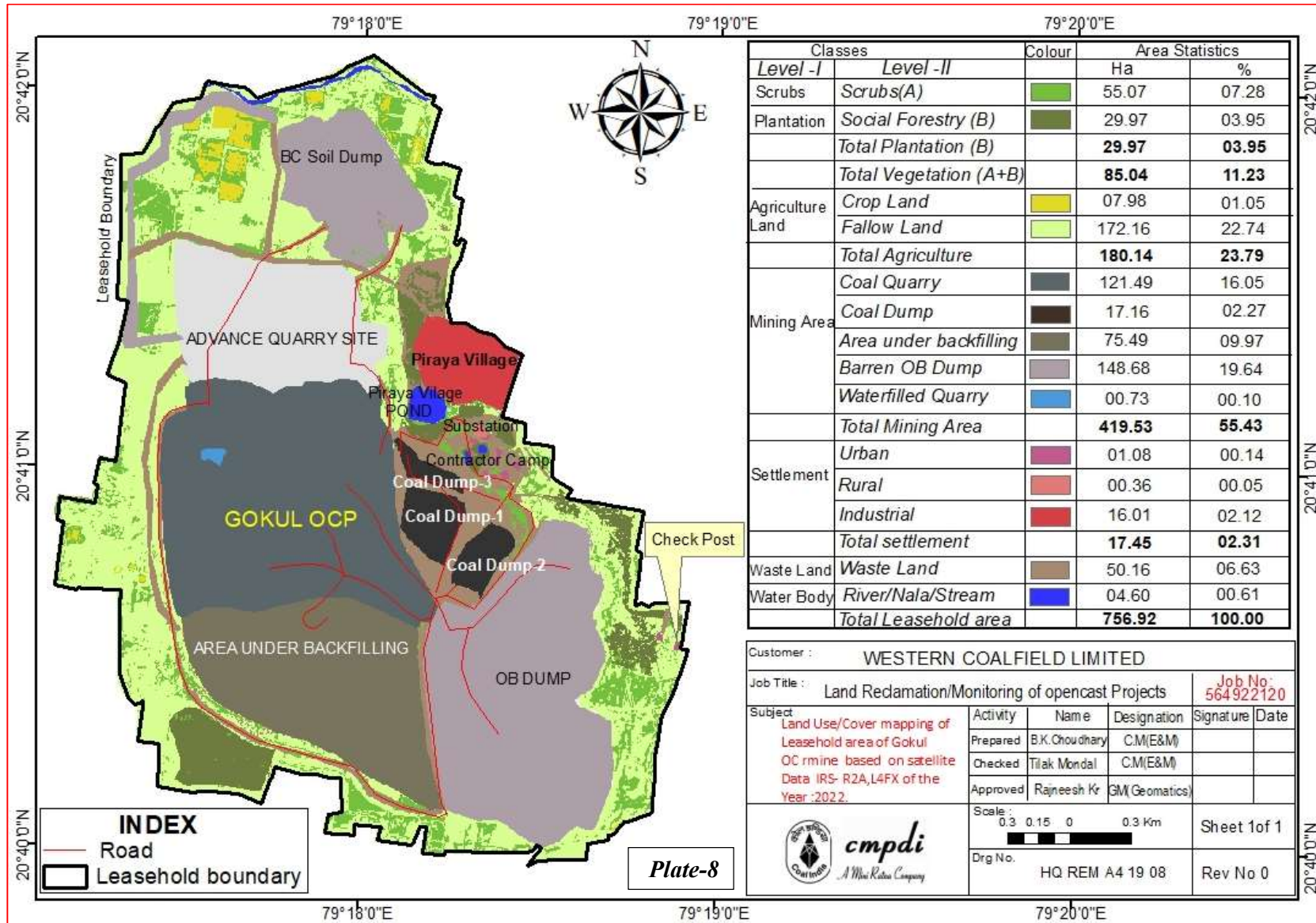
4.4 It is evident from the analysis that area under land reclamation has increased from 511.10 Ha (Yr. 2019) to 565.85 Ha (Yr. 2022) which includes both plantation on backfill (Biological Reclamation) and area under backfilling (Technical Reclamation). This

increase of 54.75 Ha area under total reclamation for eight opencast mines of WCL in the period of three years is due to increase in area under Technical reclamation and Biological Reclamation to the tune of 40.33 Ha and 14.42 Ha respectively. Project wise status of Land reclamation for eight OC mines is shown in bar chart (Figure-1).

- 4.5** There has been overall increase in area under Technical reclamation (area under backfilling) in all projects of WCL except in Bhanegaon, Ghugus and Datla OC. In Bhanegaon OC, area under technical reclamation has decreased from 2.45 Ha (Yr. 2019) to 1.18 Ha (Yr. 2022). This decrease of 1.27 Ha area under backfilling during year 2022 as compared to the year 2019 is due to rehandling of backfill whereas decrease of 8.96 Ha and 2.89 Ha area under backfilling in Ghugus OC and Datla OC are due to more backfilling area occupied with plantation on backfill area.
- 4.6** After analyzing the satellite data of year 2019 vs. 2022, it is evident that total area under plantation (Green Cover) carried out on backfilled area, OB dumps as well as area under social forestry in all the mines of WCL has increased from 649.91 Ha area (Yr. 2019) to 736.35 Hectare area (Yr. 2022). This increase of 86.44 Hectare area under total plantation (Green Cover) during three years is due to more plantation has been carried out on backfill, OB dump and under social forestry within leasehold area of the mines.
- 4.7** MKD-II OC mine has been closed and backfilling process is in progress, hence active mining is zero whereas area under backfilling (Technical Reclamation) has increased from 44.61 Hectare in the year 2019 to 57.75 Hectare in the year 2022.
- 4.8** In Datla OC mine area under backfilling (Technical Reclamation) has decreased from 28.21 Ha in the year 2019 to 25.32 Ha in the year 2022. This decrease of 2.89 Ha in area under backfilling is due to more plantation carried out in backfill area resulting which area of plantation on backfill (Biological Reclamation) has increased from 7.10 Ha in the year 2019 to 11.24 Ha in the year 2022.
- 4.9** Out of 08 projects of WCL, maximum land reclamation has been carried out in MKD-II OC projects (100%) followed by Ghugus (92.51%), Datla OC (75.37%), New sethia (54.34%) and Gokul (29.76%) respectively.

TABLE 2
PROJECT-WISE AREA STATISTICS OF LAND USE/COVER CLASSES IN OC MINES OF WCL PRODUCING (<5 M.C.M (COAL +OB)) BASED ON SATELLITE DATA OF THE YEAR 2022
(Area in Hectare)

		BHANEAGAON		SINGHORI		MKD-II		NEW SETHIA		GHUGUS		PIMPALGAON		DATLA		GOKUL		TOTAL	
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
FORESTS	Dense Forest 	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Open Forest 	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Forest/Tree plantation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SCRUBS		32.17	9.26	58.39	13.74	9.44	3.66	9.76	6.71	66.42	6.51	21.74	4.81	0.56	0.98	55.07	7.28	253.55	7.32
PLANTATION	Social Forestry 	20.74	5.97	7.63	1.80	2.57	0.99	10.15	6.98	125.20	12.27	79.62	17.62	0.00	0.00	29.97	3.95	275.88	7.97
	Plantation on OB Dump 	16.54	4.76	0.00	0.00	47.14	18.26	7.01	4.82	136.64	13.40	149.76	33.14	0.00	0.00	0.00	0.00	357.09	10.32
	Plantation on Backfill 	0.00	0.00	0.00	0.00	0.00	0.00	18.92	13.01	73.22	7.18	0.00	0.00	11.24	19.47	0.00	0.00	103.38	2.99
	Total Plantation (Green Cover Generated)	37.28	10.73	7.63	1.80	49.71	19.25	36.08	24.81	335.06	32.85	229.38	50.76	11.24	19.47	29.97	3.95	736.35	21.28
<i>Plantation on Backfill(Biologically reclaimed)</i>		0.00	0.00	0.00	0.00	0.00	0.00	18.92	13.01	73.22	7.18	0.00	0.00	11.24	19.47	0.00	0.00	103.38	2.99
Total Vegetation Cover		69.45	19.99	66.02	15.54	59.15	22.91	45.84	31.52	401.48	39.36	251.12	55.57	11.80	20.45	85.04	11.23	989.90	28.60
ACTIVE MINING	Coal Quarry 	29.11	8.38	48.59	11.43	0.00	0.00	10.50	7.22	16.04	1.57	29.09	6.44	2.68	4.65	121.49	16.05	257.50	7.44
	Coal Dump 	3.04	0.87	3.58	0.84	6.91	2.68	1.21	0.83	3.70	0.36	2.44	0.54	0.00	0.00	17.16	2.27	38.04	1.10
	Advance Quarry Site 	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.98	7.40	55.98	1.62
	Quarry Filled With Water 	5.75	1.65	1.97	0.46	0.00	0.00	31.15	21.42	10.85	1.06	22.70	5.02	9.27	16.06	0.73	0.10	82.42	2.38
	Total Area under Active Mining	37.90	10.90	54.14	12.73	6.91	2.68	42.86	29.47	30.59	2.99	54.23	12.00	11.95	20.71	195.36	25.82	433.94	12.54
RECLAIMED	Barren OB Dump 	53.47	15.39	59.25	13.94	62.92	24.37	3.74	2.57	26.73	2.62	85.64	18.95	0.00	0.00	148.68	19.64	440.43	12.72
	Barren Backfilled Area 	1.18	0.34	0.00	0.00	57.75	22.36	30.65	21.07	258.74	25.37	13.34	2.95	25.32	43.85	75.49	9.97	462.47	13.36
	Total Area under Technical Reclamation	1.18	0.34	0.00	0.00	57.75	22.36	30.65	21.07	258.74	25.37	13.34	2.95	25.32	43.85	75.49	9.97	462.47	13.20
Total Area Under Mine Operation		92.55	26.63	113.39	26.67	127.58	49.41	77.25	53.11	316.06	30.98	153.21	33.90	37.27	64.56	419.53	55.43	1336.84	38.46
WASTELAND	Waste Lands 	35.10	10.10	24.38	5.74	14.61	5.66	12.75	8.77	136.01	13.33	41.61	9.21	7.53	13.03	50.16	6.63	322.15	9.31
	Fly Ash Pond / Sand Body 	2.50	0.72	1.17	0.28	0.00	0.00	3.78	2.60	1.30	0.13	0.00	0.00	0.59	1.02	0.00	0.00	9.34	0.27
Total Wasteland		37.60	10.82	25.55	6.02	14.61	5.66	16.53	11.37	137.31	13.46	41.61	9.21	8.12	14.05	50.16	6.63	331.49	9.58
WATERBODIES	Reservoir, nallah, ponds 	7.82	2.26	1.97	0.46	0.00	0.00	2.66	1.84	7.31	0.72	0.00	0.00	0.56	0.94	4.60	0.61	24.92	0.72
	Total Waterbodies	7.82	2.26	1.97	0.46	0.00	0.00	2.66	1.84	7.31	0.72	0.00	0.00	0.56	0.94	4.60	0.61	24.92	0.72
AGRICULTURE	Crop Lands 	0.00	0.00	12.21	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.98	1.05	20.19	0.58
	Fallow Lands 	139.26	40.08	204.73	48.17	56.24	21.78	1.03	0.70	88.64	8.69	0.00	0.00	0.00	0.00	172.16	22.74	662.06	19.13
	Total Agriculture	139.26	40.08	216.94	51.04	56.24	21.78	1.03	0.70	88.64	8.69	0.00	0.00	0.00	0.00	180.14	23.79	682.25	19.71
SETTLEMENTS	Urban Settlement 	0.78	0.22	0.74	0.17	0.39	0.14	1.91	1.30	38.10	3.74	1.99	0.44	0.00	0.00	1.08	0.14	43.99	1.27
	Rural Settlement 	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.40	2.39	1.73	0.38	0.00	0.00	0.36	0.05	26.49	0.77
	Industrial Settlement 	0.00	0.00	0.43	0.10	0.26	0.10	0.23	0.16	6.70	0.66	2.21	0.50	0.00	0.00	16.01	2.12	25.84	0.75
	Total Settlement	0.78	0.22	1.17	0.27	0.65	0.24	2.14	1.46	69.20	6.79	5.93	1.32	0.00	0.00	17.45	2.31	96.32	2.79
Grand Total		347.46	100.00	425.04	100.00	258.23	100.00	145.45	100.00	1020.00	100.00	451.87	100.00	57.75	100.00	756.92	100.00	3461.72	100.00



Classes		Colour	Area Statistics	
Level -I	Level -II		Ha	%
Scrubs	Scrubs(A)		55.07	07.28
Plantation	Social Forestry (B)		29.97	03.95
	Total Plantation (B)		29.97	03.95
Total Vegetation (A+B)			85.04	11.23
Agriculture Land	Crop Land		07.98	01.05
	Fallow Land		172.16	22.74
Total Agriculture			180.14	23.79
Mining Area	Coal Quarry		121.49	16.05
	Coal Dump		17.16	02.27
	Area under backfilling		75.49	09.97
	Barren OB Dump		148.68	19.64
	Waterfilled Quarry		00.73	00.10
Total Mining Area			419.53	55.43
Settlement	Urban		01.08	00.14
	Rural		00.36	00.05
	Industrial		16.01	02.12
Total settlement			17.45	02.31
Waste Land	Waste Land		50.16	06.63
Water Body	River/Nala/Stream		04.60	00.61
Total Leasehold area			756.92	100.00

Customer : WESTERN COALFIELD LIMITED				
Job Title : Land Reclamation/Monitoring of opencast Projects				Job No : 564922120
Subject	Activity	Name	Designation	Signature Date
Land Use/Cover mapping of Leasehold area of Gokul OC rmine based on satellite Data IRS- R2A, L4FX of the Year :2022.	Prepared	B.K.Choudhary	C.M(E&M)	
	Checked	Tilak Mondal	C.M(E&M)	
	Approved	Rajneesh Kr	GM(Geomatics)	
Scale : 0 0.15 0.3 Km				Sheet 1of 1
Drg No. HQ REM A4 19 08				Rev No 0

INDEX	
	Road
	Leasehold boundary

Plate-8

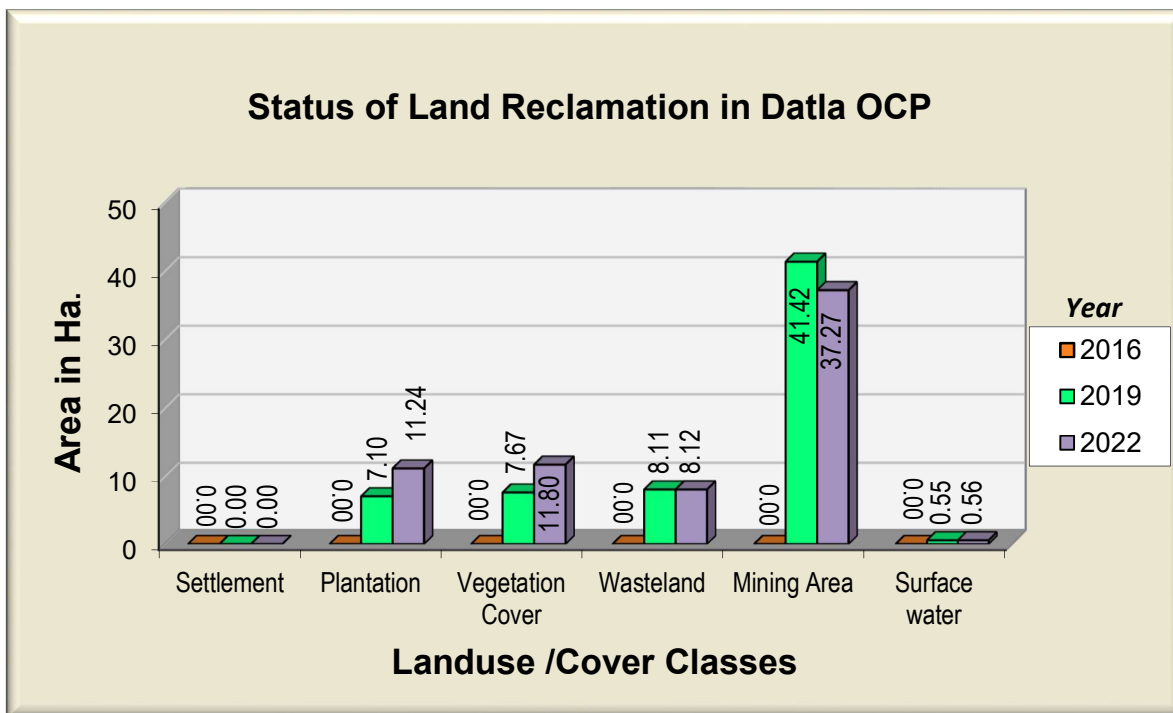


Figure-9

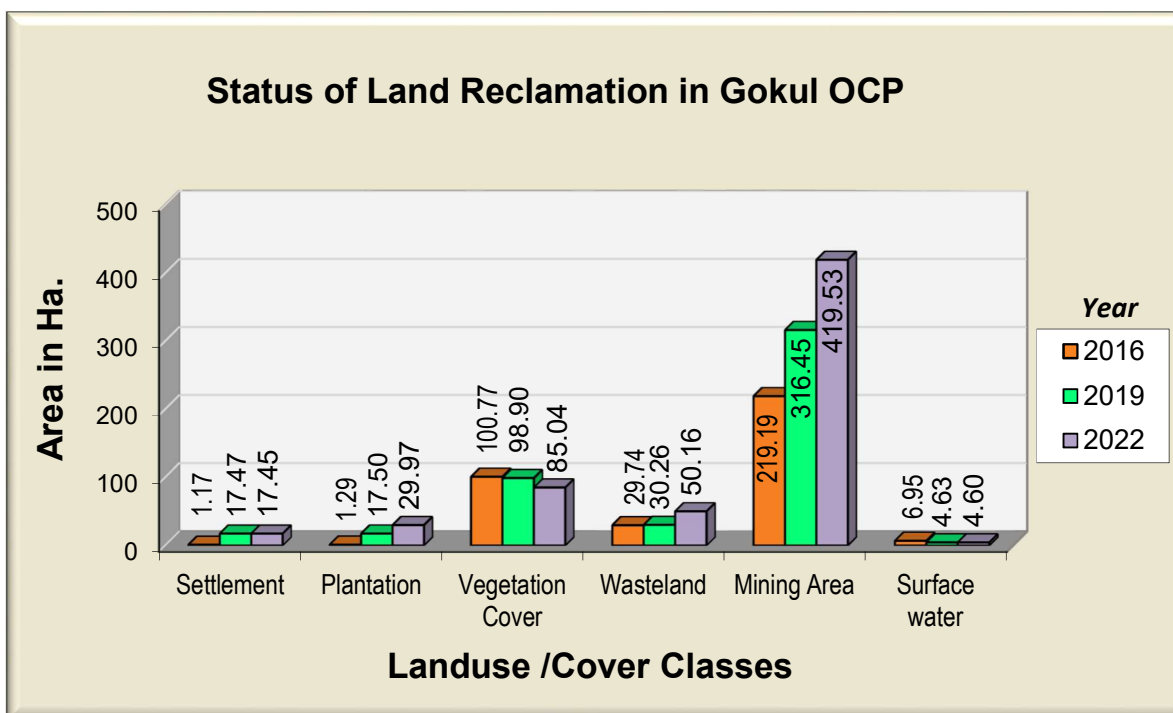


Figure -10

ABBREVIATIONS

Sol	Survey of India
MoEF & CC	Ministry of Environment, Forest & Climate Change
CIL	Coal India Limited
ECL	Eastern Coalfields Limited
BCCL	Bharat Coking Coal Limited
CCL	Central Coalfields Limited
WCL	Western Coalfields Limited
SECL	South Eastern Coalfields Limited
NCL	Northern Coalfields Limited
MCL	Mahanadi Coalfields Limited
NEC	North Eastern Coalfields
CMPDIL	Central Mine Planning & Design Institute Ltd
NRSC	National Remote Sensing Centre
R2/ R2A	ResourceSat Satellites
LISS - 4	Linear Imaging and Self Scanning Sensor
FCC	False Colour Composite
OCP	Opencast Project
UGP	Underground Project
OB	Over Burden
GCP	Ground Control points
GIS	Geographic Information System
WGS-84	World Geodetic System
UTM	Universal Transverse Mercator

GLOSSARY

Sl.	Term	Definition
1.	Land Reclamation	To manage, reclaim and restore mined out/ degraded land as close as possible to its original stage.
2.	Over Burden	The material that lies above the coal seam/ deposit
3.	Monitoring	A process of evaluation to check or keep record for a period of time.
4.	Opencast Coal Mine	Open-pit mining, also known as opencast mining, is a surface mining technique that extracts minerals from an open pit in the ground.
5.	Social Forestry	Social forestry is the management and protection of forests and afforestation of barren and deforested lands with the purpose of helping environmental, social and rural development. Plantation (Social/ Avenue or other) carried out outside mining area.
6.	Biological Reclamation	Plantation on Backfilled areas (Stabilised Internal Dumps)
7.	Technical Reclamation	Area under backfilling (Over burden dumped inside the mine voids) in mining area.
8.	Green Cover Generated	Total Plantation carried out in the lease area of Project. This includes Plantation on Backfill, Plantation on OB and Social Forestry.
9.	Leasehold Area	The area, for which lease is granted for the purpose of undertaking mining and allied operations.
10.	Excavated area	Mined out area which includes active mining, area under backfilling and plantation on backfilled areas
11.	Active Mining	Mining areas which include Coal Quarry, Advance Quarry, Quarry Filled with Water etc.
12.	Environmental Protection	It is the practice of protecting the natural environment by individuals, organizations and governments. Its objectives are to conserve natural resources and the existing natural environment and, where possible, to mitigate damage and reverse trends.
13.	Remedial Measure	Any measure or action required or undertaken to investigate, monitor, clean up, remove, treat, prevent, contain or otherwise remediate the presence or release of any hazardous substance or activity.
14.	Systematic Error	Every measurement differing from the true measurement in the same direction, and even by the same amount in some cases.
15.	Geometric Distortion	It refers to the improper positioning of any image with respect to their true geographic position when viewed in a properly scaled common image display plane.

16.	Land Use/ Cover Class	Land cover is what covers the surface of the earth and land use describes how the land is used.
17.	Accuracy	The closeness of agreement between a measured quantity value and a true quantity value.
18.	Environmental Clearance	Environmental Clearance (EC) for any developmental projects like coal mining projects etc. has been made mandatory by the Ministry of Environment, Forests and Climate Change (MoEF & CC) through its Notification issued on 27.01.1994 under the provisions of Environment (Protection) Act, 1986.
19.	Rectification and Geo-referencing	Geo-referencing is the assigning of absolute location of a data point or data points. Geo-rectification refers to the removal of geometric distortions between sets of data points, most often the removal of terrain, platform, and sensor induced distortions from remote sensing imagery.
20.	Image Enhancement	It is the process of modifying digital images so that the results are more suitable for processing or further image analysis.
21.	Training set selection	It is a portion of a data set used to fit or train a model for prediction or classification of values that are known in the training set, but unknown in other (future) data.
22.	Image Classification	It refers to the task of extracting information classes from a multiband raster image. The resulting raster from image classification can be used to create thematic maps.
23.	Temporal Changes	The 'temporal change' means the change in any entity with a period of time.
24.	Ground Truthing	Collection of primary/ basic information from ground realities for satellite image interpretation and thematic mapping.
25.	Cluster	Group of opencast and/ or underground mines clubbed together for administrative purposes.
26.	Arc GIS	GIS Software used for Map preparation
27.	ERDAS IMAGINE	Satellite Image Data Classification Software



Central Mine Planning & Design Institute Ltd.
(A Subsidiary of Coal India Ltd.)
Gondwana Place, Kanke Road, Ranchi 834031, Jharkhand
Phone : (+91) 651 2230001, 2230002, 2230483, FAX (+91)
651 2231447, 2231851
Website : www.cmpdi.co.in, Email : cmpdihq@cmpdi.co.in



WESTERN COALFIELDS LIMITED

Under Jurisdiction of Nagpur Court only.

Office of Area General Manager
UMRER AREA
P.O. Umrer Project.
Dist: NAGPUR(MS).
Pin: 441204.

Regd. Office : Coal Estate, Civil Lines, Nagpur - 440001

Ref. No. : WCL/AGM-UA/E&M/Solar Power Plant/2018-19/ 1474 Date : 28.03.2019
29

Commissioning Report.

Ref. :- Supply Order No. 11000114917161 dated 16.01.2018 supplied by M/s. Jain Irrigation Systems Ltd., Jalgaon.

As per supply order No. 11000114917161 dated 16.01.2018 the Solar Plant installed should generate 4.1 per kwh/kwp *per day*

1. Solar Plant 12 kwp Umrer Hospital should generate 49.2 KWH per day ($\pm 5\%$) and
2. Solar Plant 40 kwp AGM Office Umrer should generate 164 KWH per day ($\pm 5\%$)

The Bar chart showing solar power generation for the month February, 2019(Till 27th February) of both solar power plants is enclosed with the commissioning report. From the Bar Chart we find that from 18th February, 2019 onwards the solar power generation is up to the mark. Hence, commissioning report may please be processed.

Sl. No.	Description	Qty.	Place of Installation	Date of commissioning
1.	40 KWp On-Grid-Connected Roof Top Mounted Solar Power Plant.	01 (One)	AGM Office, Umrer Area.	16.01.2019
2.	12 KWp On-Grid-Connected Roof Top Mounted Solar Power Plant.	01 (One)	Area Hospital, Umrer Area.	11.12.2019 11.12.2018

28/3/19
Staff Officer(E&M),
Umrer Area.

Area General Manager,
Umrer Area.

28/03/19
Chief Manager(E&M),
Umrer Area.

Copy to :-

- 1) General Manager(E&M) HOD HQ, Nagpur.
- 2) Depot Officer, Regional Store, Umrer Area.
- 3) Central Stores, Tadali.



वेस्टर्न कोलफील्ड्स लिमिटेड

Western Coalfields Limited

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



पर्यावरण विभाग

आईएसओ 9001:2015 प्रमाणित

Email- gmenvironment@westerncoal.gov.in
CIN - U10100MH1975GOI018626

Environment Department

ISO 9001:2015 Certified

TELE/FAX: 0712 -2510151
www.westerncoal.nic.in

पंजी. का. : कोयला विहार, सिविल लाइन्स, नागपुर (महाराष्ट्र) - 440001/ Regd. Off. : Coal Estate, Civil Lines, Nagpur (MS) - 440001

संदर्भ संख्या /Ref.No.: वेकोलि/ मुख्यालय/ पर्यावरण/15-A-14-E/ दिनांक /Date :13.03.2024

प्रति,

373-385

1. क्षेत्रीय महाप्रबंधक,
वेस्टर्न कोलफील्ड्स लिमिटेड,
बल्लारपुर /वणी / वणी नॉर्थ / चंद्रपुर / माजरी /
नागपुर / उमरेड / कन्हान / पाथाखेडा एवं पेंच क्षेत्र
2. महाप्रबंधक, सेन्ट्रल वर्कशॉप, टडाली ।

विषय:- Corporate Environment Policy (CEP) 2023 of Coal India Limited ratified in WCL Board meeting held on 24th February'2024 for its implementation in WCL.

संदर्भ :- Relevant excerpt from the minutes of 361st meeting of the Board of Directors of WCL held on 24th February'2024 issued vide no. WCL/ Office of CS/BM-361/2023-24/1187 dated 06.03.2024

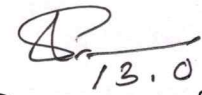
Dear Sir,

This has reference to the Corporate Environment Policy - (CEP) 2023 (Revision of CEP – 2018) of Coal India Limited which has been approved by CIL Board in its 460th Meeting of Board of Directors held on 29th Dec'2023 and further ratified the same in the 361st meeting of the Board of Directors of WCL held on 24th February'2024 for its implementation in WCL (Annexure – A).

In view of the above, please find attached herewith copy of Corporate Environment Policy - (CEP) 2023 (Annexure-B) for wide circulation among the employees for implementation of the same and updating the progress of implementation, every month for intimating / submitting the same in every board meeting.

Enclosed as above.

भवदीय,


13.03.2024

महाप्रबंधक / विभागाध्यक्ष (पर्यावरण)

प्रतिलिपि :

1. तकनिकी सचिव - निदेशक (तकनिकी) / संचालन, वेकोलि (मु.), नागपुर.
2. तकनिकी सचिव - निदेशक (तकनिकी) परियोजना एवं योजना, वेकोलि (मु.), नागपुर.



COAL INDIA LIMITED



CORPORATE ENVIRONMENT POLICY

2023

Back Ground:

Coal India Limited subscribes to the view of Sustainable Development. Unless the environment can sustain all the developmental activities, any pursuit of development in isolation can cause irreparable damage to the ecosystem and associated environmental attributes. Keeping this view in mind, Coal India Limited attaches top priority towards sustainable development and approved its 'Corporate Environmental Policy' in December 1995, which was subsequently revised in 2012 and 2018. The present policy is the revision of the Corporate Environment Policy 2018 and is complimentary to the National Environmental Policy, 2006.

This modification in the present policy is the outcome of the experience gained since 2018 keeping in view the modifications / amendments made time to time in environmental policies and additional stipulations notified by MoEF&CC (Ministry of Environment, Forest & Climate Change) and other organizations concerning mine closure, reclamation of degraded land, environmental clearance etc. and also with the objective of revisiting the corporate policy. Government of India is signatory to few international conventions/agreements relevant to CIL amongst others and activities associated with such conventions/agreements are embodied in the present policy

This Policy has a vision of Green Mining and mission of 100% compliance of environmental statutes applicable to coal mining industry.

Policy Statement:

Coal India Limited (CIL) is committed to promote low carbon, sustainable and socially inclusive coal mining by protecting the environment through integrated project planning & design, prevention/mitigation of pollution, conservation of natural resources, restoration of ecology & biodiversity, recycling/ proper disposal of wastes, addressing climate change and inclusive growth. It also aims to bringing awareness amongst its stakeholders for continual improvement in environmental performances following good environmental practices.

Objectives:

CIL shall endeavor to-

- 1. Plan & design projects with due consideration to environmental and social concerns for Sustainable Development and reduction in emission intensity of its operations.*

2. *Conduct mining and associated operation in an environmentally responsible manner to comply with applicable laws and other requirements related to environmental aspects.*
3. *Prevent pollution in surrounding habitation by continuous monitoring and adopting suitable measures for environment protection.*
4. *Ensure effective implementation of Environment Management Plans (EMPs) in all our mines / projects to mitigate pollution, conservation of natural resources and restoration of ecology & biodiversity.*
5. *Ensure compliance of all statutory conditions prescribed by regulatory agencies.*
6. *Ensure waste management in each unit on the principle of REDUCE, REUSE, RECYCLE and SAFE DISPOSAL.*
7. *Put special thrusts on efficient energy utilization / renewable energy and other measures to reduce carbon foot-print.*
8. *Strive for continual improvement in our environmental performances by setting targets, measuring progress and taking corrective action.*
9. *Take measures to gainful repurposing of land and render productive post mining land use for ensuring environmentally sustainable and socially acceptable closure of mine.*
10. *Ensure implementation of activities applicable to CIL arising out of International Conventions.*
11. *Create environmental awareness and ensure environmental education among the employees, local communities and other stakeholders through pro-active communication and training.*
12. *Promote R&D projects/innovations addressing various environmental concerns like minimization of carbon footprints of CIL and environmental issues in mining & surrounding areas.*
13. *Ensure transparency in Environmental reporting / disclosure to stakeholders.*

Review of Environmental Policy:

In view of the present fast changing social, economic and environmental scenario, this policy shall be reviewed every 5 years to incorporate the changes in the legal, technical, environmental, economic and social inputs prevailing at that time. Whenever, there is change in National Environmental Policy or other National / State relevant policies, Acts etc, this Corporate Environmental Policy would be reviewed and suitably revised.



वेस्टर्न कोलफील्ड्स लिमिटेड
Western Coalfields Limited

कंपनी सचिव का कार्यालय
Office of the Company Secretary

पंजी.का.: कोयला विहार, सिविल लाइन्स, नागपूर (महाराष्ट्र)-440001
Regd. Off.: Coal Estate, Civil Lines, Nagpur (MS) - 440001
CIN - U10100MH1975GOI018626 www.westerncoal.in

email - companysecretary.wcl@coalindia.in
☎/FAX: 0712 - 2511216

**BOARD MATTER
CONFIDENTIAL**

REF. WCL/Office of CS/BM-361/2023-24/ 1187

DATE: 06.03.2024.

Reproduced below is the relevant excerpt from the minutes of 361st meeting of the Board of Directors of WCL held on 24th February, 2024:

"ITEM NO.361/ C-6

SUB Proposal for ratification of Corporate Environment Policy (CEP) 2023 of Coal India Limited in WCL Board for its implementation in WCL.

- i) While deliberating on the proposal, Shri Anil Kumar Singh, Director (Technical) P&P apprised the salient features of the Corporate Environment Policy (CEP) 2023 of Coal India Limited to the Board.
- ii) Shri Balram Nandwani, Independent Director enquired about the strategy built up by WCL for implementation of Corporate Environment Policy (CEP), 2023 in the Company and suggested for updating the progress of implementation of such policy in every Board meeting.
- iii) Shri Binod Bihari Dash, Independent Director enquired about steps taken by Company on reduction of carbon emission. It was informed that it is incorporated in EC conditions of some mines to deploy at least 20% of overall fleet of dumpers / trucks / other vehicles as electrical or CNG/LNG based for transportation of Coal / OB etc.
- iv) The Board, after deliberation ratified the Corporate Environment Policy - 2023 (CEP - 2023) approved by CIL Board in its 460th meeting held on 29.12.2023, for circulation among employees for its implementation in WCL as brought out in the agenda note with a directive for keeping its updated/progressive implementation status in every Board Meeting.
- v) General Manager (Environment) to take necessary action in the matter."

Vijay
6/3/2024
COMPANY SECRETARY

GENERAL MANAGER (ENVIRONMENT)

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

कोयला इण्डिया लिमिटेड (प्रा.)/मुख्यालय/नागपूर
WCL/GM (Env)/HQ/Nagpur
प्रादी/Rec. 93 दिनांक/Date 6/3/24

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Haryana

Date : **19/03/2026**
Time : **15:17:21 PM**
Validity upto : **18/03/2027**



Certificate SL. No. : HR04600280019343
Registration No. : CG15DK7078
Date of Registration : 14/Nov/2018
Month & Year of Manufacturing : August-2018
Valid Mobile Number : *****0000
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PIC Code : HR0460028
TIN :
Fees : Rs.100.00
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idle Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	1.62	0.36

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator
60mm x 20 mm

[See rules 115 (2)]

Pollution Under Control CertificateAuthorised By :
Government of MaharashtraDate : **18/02/2026**
Time : **11:14:53 AM**
Validity upto : **17/02/2027**Certificate SL. No. : MH04000380015963
Registration No. : MH40CM2337
Date of Registration : 16/Mar/2019
Month & Year of Manufacturing : October-2018
Valid Mobile Number : *****3520
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : MH0400038
GSTIN :
Fees : Rs.150.0
MIL observation : NoVehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.56

This PUC certificate is system generated through the national register of Motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator 60mm x 20mm

JAIKISAN PUC CENTRE

Pollution Under Control Certificate

Authorised By :
Government of Maharashtra

Date : **04/03/2025**
Time : **12:10:27 PM**
Validity upto : **03/03/2026**



Certificate SL. No. : MH04900950020018
Registration No. : MH40CT9337
Date of Registration : 18/Nov/2018
Month & Year of Manufacturing : August-2018
Valid Mobile Number : *****2323
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : MH0490095
GSTIN :
Fees : Rs.150.0
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.63

This PUC certificate is system generated through the national register of Motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator 60mm x 20mm

VIJAY ENTERPRISES

[See rules 115 (2)]

Pollution Under Control CertificateAuthorised By
Government of MaharashtraDate : 23/08/2025
Time : 13:30:48 PM
Validity upto : 22/08/2026Certificate SL. No. : MH04000380014698
Registration No. : CG15DK7079
Date of Registration : 14/Nov/2018
Month & Year of Manufacturing : August-2018
Valid Mobile Number : *****3520
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
V Code : MH0400038
GSTIN :
Fees : Rs.150.0
MIL observation : NoVehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.56

This PUC certificate is system generated through the national register of Motor vehicles and does not require any signature.

Note : 1 Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>Authorised Signature with stamp of PUC Operator
60mm x 20 mm

JAIKISAN PUC CENTRE

[See rules 115 (2)]

Pollution Under Control CertificateAuthorised By :
Government of MaharashtraDate : 29/12/2025
Time : 15:44:09 PM
Validity upto : 28/06/2026Certificate SL. No. : MH04900730020661
Registration No. : MH40CD9727
Date of Registration : 12/Sep/2013
Month & Year of Manufacturing : August-2013
Valid Mobile Number : *****1211
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : MH0490073
GSTIN :
Fees : Rs.150.0
MIL observation : NoVehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	1.56

This PUC certificate is system generated through the national register of Motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator 60mm x 20mm

UK PAINTER PUC CENTER 1

Form 59

[See rules 115 (2)]

Pollution Under Control CertificateAuthorised By :
Government of MaharashtraDate : 23/08/2025
Time : 12:46:30 PM
Validity upto : 22/08/2026Certificate SL. No. : MH04000380014684
Registration No. : CG15DK7077
Date of Registration : 14/Nov/2018
Month & Year of Manufacturing : August-2018
Valid Mobile Number : *****3520
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : MH0400038
GSTIN :
Fees : Rs.150.0
MIL observation : NoVehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.52

This PUC certificate is system generated through the national register of Motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator: 60mm x 20mm

JAIKISAN PUC CENTRE

As per DGMS (Lesis) Circular No. 02 of 2017, Dhanbad, dated 06/11/2017

APRIL-2026 18.04.2026

Serial No.	Place	Location	Machine No.	Standard Illumination		Reading in Lux		Remarks
				Horizontal	Vertical	Horizontal	Vertical	
1	Coal Face	Seam II	---	15H	25V			seam 2 not expose
2	OB Face	BENCH II nd	1021	15H	25V	15.8	25.1	
3	Coal Face	Seam V	75	15H	25V	13.7	23.3	Additional light fitting provided.
4	OB Face	VI TH OB BENCH	1412	15 H	25V	13.4	22.6	
5	OB approach road	OB Bench		10 H	---	12.6		
6	Approach to Coal & OB Bench	Bottom Road Junction		10 H	---	11.6		
7	Approach road Coal	Haul Road on Coal Floor		10 H	---	9.7		Additional light fitting provided.
8	Dumping Approach Road	--		10 H	---	10.8		
9	Approach Road	--						
10	Dump-1	Internal		15H	15V	16.1	15.2	
11	Dump-2	Internal		15H	15V	11.8	13.2	DUMPING ALLOWED ONLY IN DAY LIGHT
12	Dump-3	Internal		15H	15V	14.2	13.8	FOCUS OF LIGHTS CHANGED TOWARDS OB DUMP
13	Cabin	PC		50H		50.8		
14	Main Haul Road	--	--	10 H		11.2		
15	Parking	--	--	50H	--	52.1		
16	pumping station	kirloskar 550	--	40H	--	43.3		
17		--	--	50H	--			
18	Approach road to Coal	--	--	15 H	15 V	15.6	16.2	
19	Stock	--	--	15 H	15 V			
20	Surface Junction	Nr. Access Trench	--	50 H		54.9		
21	Coal Stock	No. 1	--	50 H	--	50.3		
22		No. 2	--	50H	--	47.4		FOCUS OF LIGHTS CHANGED TOWARDS
23		Unloading Point	--	40 H	--	44.9		
24			--		--			
25		Along the belt	--	40 H	--	53.7		
26		Loading Points	--	40 H	20V	42.3	22.7	
27			--	20 H	20 V	22.7	23.6	
28		Inside	--	100 H	50 V	113.8	70.4	
29	Sub Station	Outside	--	100 H	50 V	114.6	76.1	
30			--		--			
31	HEMM Workshop	Contractual - Dozer	--	40 H	--	42.2		
32		Contractual - PC	--	40 H	--	45.3		
33	First aid station			50H		54.7		
34	Rest Shelter			30H		36.1		
35	General Working Place			10H		14.8		
36	Area Where Drilling rig work	bench no. 4			25V		29.7	

Bej
W.I. (MIN.)

[Signature]
W.I. (ELEC.)

[Signature]
SAFETY OFFICER

[Signature]
COLLIERY ENGG.(E&M)

[Signature]
COLLIERY MANAGER

FOR THE MONTH OF FEBRUARY -2026

Sr No(1)	Date(2)	Category of Persons attached (3)	SI No of Filter Paper(4)	Initial Weight of Filter Paper(5)(mg)	Final Weight Of Filter Paper(6)(mg)	Diff in Weight (7)(mg)	Sampling Time(8)	Flow rate of the Instrume nt (9)	Vol of Air (Cum)(10)	Dust Conc (Mg/Cum)(11)	8 Hrs TWA(mg /Cum)(12)	Work Duration (13)	Remarks (14)
1	02.02.2026	Semi Mobile Crusher Operator	Sample 1	4.1877	4.1888	1.1	480	2.2	1.056	1.04	1.04	1.04	
2	05.02.2026	Supervisor	Sample 2	4.181	4.1821	1.1	475	2.2	1.045	1.05	1.04	1.04	
3	11.02.2026	Dumper Operator	Sample 3	4.1807	4.1816	0.9	480	2.2	1.056	0.85	0.85	0.85	
4	17.02.2026	Dozer operator	Sample 4	4.1826	4.1837	1.1	478	2.2	1.0516	1.05	1.04	1.04	
5	21.02.2026	Drill operator	Sample 5	4.1822	4.1833	1.1	465	2.2	1.023	1.08	1.04	1.04	

Safety Officer
Gokul O.C.M. W.C.B.I

FOR THE MONTH OF MARCH -2026

Sr No(1)	Date(2)	Category of Persons attached (3)	SI No of Filter Paper(4)	Initial Weight of Filter Paper(5)(mg)	Final Weight Of Filter Paper(6)(mg)	Diff in Weight (7)(mg)	Sampling Time(8)	Flow rate of the Instrume nt (9)	Vol of Air (Cum)(10)	Dust Conc (Mg/Cum)(11)	8 Hrs TWA(mg /Cum)(12)	Work Duration (13)	Remarks (14)
1	01.03.2026	Semi Mobile Crusher Operator	Sample 1	4.1702	4.1718	1.6	480	2.2	1.056	1.52	1.52	1.52	
2	03.03.2026	Supervisor	Sample 2	4.104	4.1052	1.2	475	2.2	1.045	1.15	1.14	1.14	
3	11.03.2026	Dumper Operator	Sample 3	4.1913	4.1922	0.9	480	2.2	1.056	0.85	0.85	0.85	
4	16.03.02026	Dozer operator	Sample 4	4.1928	4.1937	0.9	478	2.2	1.0516	0.86	0.85	0.85	
5	19.03.2026	Drill operator	Sample 5	4.1963	4.1974	1.1	465	2.2	1.023	1.08	1.04	1.04	

Safety Officer
Gokul O.C.M. W.C.B.I

Colliery Manager
Gokul O/c. Project
WCL, Umrai Area

FOR THE MONTH OF APRIL -2026

Sr No(1)	Date(2)	Category of Persons attached (3)	SI No of Filter Paper(4)	Initial Weight of Filter Paper(5)(mg)	Final Weight Of Filter Paper(6)(mg)	Diff in Weight (7)(mg)	Sampling Time(8)	Flow rate of the Instrume nt (9)	Vol of Air (Cum)(10)	Dust Conc (Mg/Cum)(11)	8 Hrs TWA(mg /Cum)(12)	Work Duration (13)	Remarks (14)
1	01.04.2026	Semi Mobile Crusher Operator	Sample 1	4.1702	4.1717	1.5	480	2.2	1.056	1.42	1.42	1.42	
2	03.04.2026	Supervisor	Sample 2	4.1004	4.1015	1.1	475	2.2	1.045	1.05	1.04	1.04	
3	10.04.2026	Dumper Operator	Sample 3	4.1904	4.1916	1.2	480	2.2	1.056	1.14	1.14	1.14	
4	15.04.02026	Dozer operator	Sample 4	4.1003	4.1015	1.2	478	2.2	1.0516	1.14	1.14	1.14	
5	20.04.2026	Drill operator	Sample 5	4.192	4.193	1.0	465	2.2	1.023	0.98	0.95	0.95	

Safety Officer

NOISE SURVEY RECORD OF HEMM

MONTH: APRIL - 2026

CONTRACTUAL

Tippers

Sl. No.	Date	Tipper No.	While Idling	While tipping	While loaded	While moving at maximum gradient	AVA at 50 mtr behind tipper
1	11.04.2026	SANY - 18	69.2	72.8	75.1	76.7	84.2
2	11.04.2026	V - 100	65.4	67.1	69.5	71.2	82.7
3	11.04.2026	2837	66.5	69.2	70.6	71.8	83.4
4	11.04.2026	5537	67.2	69.7	71.4	73.4	83.1
5	11.04.2026	SANY - 25	68.9	71.2	72.8	75.2	84.6
6	11.04.2026	5837	67.8	71.8	73.7	76.1	83.4

Dozers

Sl. No.	Date	Dozer No.	Inside the operator cabin		AVA at 50 mtr behind
			While Idling	While operation	
1	11.04.2026	2	71.2	76.8	83.5

Drills

Sl. No.	Date	Drill No.	Inside the operator cabin	
			While Idling	While operation
1	11.04.2026	TATA - 06	65.2	67.3

Excavators

Sl. No.	Date	No.	Inside the operator cabin	
			While Idling	While operation
1	11.04.2026	38	68.7	72.6
2	11.04.2026	1054	69.4	73.8

DEPARTMENTAL

Dozers

Sl. No.	Date	Dozer No.	Inside the operator cabin		AVA at 50 mtr behind
			While Idling	While operation	
1	11.04.2026	13690	73.6	80.7	83.7

Excavators

Sl. No.	Date	No.	Inside the operator cabin	
			While Idling	While operation
1	11.04.2026	BE-16102	75.6	80.1


Safety Officer



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

MPCB-ENVIRONMENT_STATEMENT-0000087386

Submitted Date

29-09-2025

PART A

Company Information

Company Name

Western Coal Fields Ltd, Gokul
Opencast Mine

Application UAN number

MPCB-CONSENT-0000116639

Address

Gokul Opencast Mine, 40 A, Piraya,
Tal: Bhiwapur, Dist: Nagpur

Plot no

-

Taluka

Bhiwapur

Village

Piraya

Capital Investment (In lakhs)

25579

Scale

LSI

City

NAGPUR

Pincode

441201

Person Name

Yogesh Kathuria

Designation

Sub Area Manager

Telephone Number

7020696042

Fax Number

07116247374

Email

samgokuloc@gmail.com

Region

SRO-Nagpur II

Industry Category

Red

Industry Type

R35 Mining and ore beneficiation

Last Environmental statement submitted online

yes

Consent Number

FORMAT 1.0/CAC/UAN No.MPCB-
CONSENT-0000160271/CR/2305000845

Consent Issue Date

2025-02-26

Consent Valid Upto

2026-03-31

Establishment Year

2015

Date of last environment statement submitted

Jan 1 1900 12:00:00:000AM

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

Product Information

Product Name

Coal

Consent Quantity

1.875

Actual Quantity

1.875

UOM

MT/A

By-product Information

By Product Name

NA

Consent Quantity

0

Actual Quantity

0

UOM

CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	550.00	550.00
Domestic	0.00	0.00
All others	34.05	34.05
Total	0.00	0.00
	584.05	584.05

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Mine Discharge	2430	2430	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)	1.37	0.47	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
Explosive (Kg/ tonne)	3.67	3.542	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
-	0	0	CMD

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) Quantity	Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Report Enclosed	0	0	0	0	0

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged (Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Not Applicable	0	0	0	0	0

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	2.47	3.2	KL/A
35.3 Chemical sludge from waste water treatment	36.18	9.130	Ton/Y
35.3 Chemical sludge from waste water treatment	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
Over Burden	12308584	12162366	M3/Anum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
-	0	0	CMD

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	CMD

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
5.1 Used or spent oil	3.2	KL/A	Sold to authorized recycler
35.3 Chemical sludge from waste water treatment	9.130	Ton/Y	Disposed by MEPL, Butibori

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Over Burden	12162366	M3/Anum	OB dump site

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)
-	0	0	0	0	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)
Capital Expenditure	Environmental Protection Measures, Piezometers, CAAQMS	75.12
Revenue Expenditure	Plantation, Dust Suppression and Air, Water and Noise Monitoring	194.69

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Proposed Capital Budget	Environmental Protection Measures	20
Proposed Revenue Budget	Plantation, Dust Suppression and Air, Water and Noise Monitoring	120

Part-I

Any other particulars for improving the quality of the environment.

Particulars

-

Name & Designation

Yogesh Kathuria, Sub Area Manager, Murpar Sub Area

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000087386

Submitted On:

29-09-2025

No.J-11015/1001/2007-IA.II(M) pt.
Government of India
Ministry of Environment, Forest & Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 13th February, 2017

To,

The General Manager (Environment),
M/s Western Coalfields Ltd.,
Coal Estate, 9th Floor, Civil Lines,
Nagpur - 1 (Maharashtra)

Email: gmenvironment.wcl@nic.in; wclenv@yahoo.in

Sub: Expansion of Gokul OCP from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha of M/s Western Coalfields Limited located in District Nagpur (Maharashtra) - Environmental Clearance - reg.

Sir,

This is with reference to your application No.WCL/ENV/HQ/9-G & 20-C/532 dated 07.11.2016 along with the online proposal No.IA/MH/CMIN/7059/2010 dated 31.10.2016 and subsequent letter dated 19.12.2016, 27.12.2016 & 28.12.2016 on the subject matter.

2. The Ministry of Environment, Forest & Climate Change has considered the application. It is noted that the proposal is for grant of environmental clearance to **Expansion of Gokul OCP from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha of M/s Western Coalfields Limited located in District Nagpur (Maharashtra).**

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 1st meeting held on 27th December, 2016. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under:-

- (i) The project was earlier accorded EC vide letter No.J-11015/1001/2007-IA.II (M) dated 7th January, 2011 for 1 MTPA capacity in a total area of 767.17 ha.
- (ii) Latitude and Longitude of the project site are 20° 39' 32" to 20° 41' 11"N and 79° 16' 53" to 79° 18' 47"E respectively.
- (iii) Joint Venture: No joint Venture.
- (iv) Coal Linkage: MAHAGENCO and other miscellaneous consumers.
- (v) Employment generated/to be generated: 40 land losers provided employment.
- (vi) Benefits of the project: Development of Gokul OCP has resulted in following benefits:
 - Improvements in physical infrastructure
 - Improvements in social infrastructure,
 - Increase in employment potential,
 - Contribution to the exchequer,
 - Meet energy requirement,
 - Post-mining enhancement of green cover



(vii) The land usage of the project will be as follows:

Pre-Mining:

S.No.	Land use	Within ML Area (ha)	Outside ML Area (ha)	Total
1	Agricultural land	705.96	5.00	711.96
2	Forest land /Zudpi Jungle.	11.90	-	11.90
3	Waste land	33.06	-	33.06
4	Grazing land	--	--	--
5	Surface water bodies	--	--	--
6	Settlements	--	--	--
7	Others (specify)	--	--	--
	Total	751.92	5.00	756.92

Post- Mining:

S.N.	Land use during mining	Land use (ha)				Total
		Plantation	Water Body	Public use	Undisturbed	
1	External OB Dump	123.9	--	--	--	123.9
2	Top soil dump	30.75	--	--	--	30.75--
3	Excavation	115.39	175.82	--	--	291.21
4	Roads	3.00	--	36.00	--	39.00
5	Built up area	3.00	--	12.0	--	15.00
7	Undisturbed Area	100.00	--	--	157.06	257.06
	Total	376.04	175.82	48.0	157.06	756.92

(viii) Total geological reserve is 26.988 MT. The mineable reserve 14.50 MT with the extractable reserve of 14.50 MT. The per cent of extraction would thus be 53.72%.

(ix) The coal grade is G-7. The stripping ratio is 1:9.37 Cum/tonne. The average Gradient is 1 in 7.5 to 1 in 12.5. There will be two seams with thickness ranging

Quarry	Seam-V	Seam-II
Average Seam Thickness	2.00 m	4.0

(x) Total estimated water requirement is 460 m³/day. The level of ground water ranges from 1.80 m to 12.15 m.

(xi) The method of mining would be inclined slicing, Shovel-Dumper Combination.

(xii) There is one external OB dump with quantity of 41.75 Mcum in an area of 123.9 ha with height of 60 m above the surface level and one internal dump with Quantity of 94.09 Mcum in an area of 115.39 ha.

(xiii) Final mine void would be in 175.82 ha with depth 100 m. Out of the total quarry area of 231.73 ha, backfilled quarry area of 115.39 ha shall be reclaimed with plantation. The mine void shall be proposed to be converted into a water body.

SH

- (xiv) The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- (xv) The life of mine is 11 years.
- (xvi) Coal transportation in pit by dumpers from in pit to pit head coal handling plant, surface to siding by dumpers to pre-weigh bin and loading at siding by dumpers.
- (xvii) There is no R & R involved. There are 214.1214 PAFs.
- (xviii) Total capital cost involved is Rs.262.9210 crore. According to New CSR policy, the fund for the CSR should be allocated based on 2% of the average net profit of the Company for the three immediate preceding financial years or Rs. 5.00 per tonne of coal production of previous year whichever is higher. Environmental Management Cost Rs 40.55 Lakhs.
- (xix) Two small seasonal nallas originating near (South-eastern part of the project) proposed external OB Dump will be diverted. A Canal also exists in the north side of the proposed quarry. Tentative diversion route of the nalla have been shown on Quarry & surface layout plan.
- (xx) Mine Plan for the proposed expansion of Gokul OCP in an area of 756.92 ha was approved by the M/s WCL Board on 29th November, 2014. Mine closure plan is a part of the Mine plan approved by the Board.
- (xxi) There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone.
- (xxii) For diversion of 11.90 ha of forest land for non-forestry use, the stage-I forest clearance the proposal has been forwarded to MoEF, Regional Office Bhopal by the State Government of Maharashtra vide letter No. FLD-3413/CR-389 / F-10. dated 3rd July 2014. Reply to queries raised by CCF (c), MoEF Bhopal, have been submitted to Regional office, Bhopal on 22/9/2014. GPS plan has been submitted. NOC under FRA 2006 has been submitted.
- (xxiii) Total afforestation plan shall be implemented covering an area of 376.04 ha including green belt at the end of mining with density of tree plantation of 2500 trees/ha.
- (xxiv) There are no court cases/violation pending with the project proponent.
- (xxv) Public Hearing was held on 11th November, 2008 at village Tah Bhiwpur District Nagpur.
- (xxvi) The Regional Office of MoEFCC at Nagpur has carried out the site inspection on 5th November, 2015 to verify the status of compliance of EC conditions. The monitoring report was forwarded to this Ministry vide their letter No. 3-1/2011(Env)/1294 dated 26th November, 2015. The project proponent informed about the action taken on each of the observations during monitoring and presented before the EAC during the meeting.

4. The EAC, after detailed deliberations on the proposal in the 1st Meeting on 27th December, 2016 decided for exempting the proposal from the requirement of fresh TOR and fresh Public Hearing, and recommended the proposal for grant of Environmental Clearance. The Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the **Expansion of Gokul OCP from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha of M/s Western Coalfields Limited located in District Nagpur (Maharashtra)** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms and conditions and environmental safeguards mentioned below:

A. Specific Conditions

- (i) The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- (ii) The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.
- (iii) The project proponent shall produce Consent to Operate from the State Pollution Control Board for the existing production capacity of 1 MTPA and also the Consent to Establish for the proposed capacity of 1.875 MTPA prior to enhancing the production capacity.



- (iv) Transportation of coal should be carried out by covered trucks. Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.
- (v) Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.
- (vi) Controlled blasting techniques should be adopted to control ground vibration and fly rocks.
- (vii) A progressive afforestation plan shall be implemented covering an area of 376.04 Ha at the end of mining, which includes reclaimed External OB dump area (123.9 Ha), Internal OB dump area (115.39 Ha) and Green belt (Included in total plantation) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.
- (viii) An estimated total 135.84 Mm³ of OB will be generated during the entire life of the mine. Out of which 41.75 Mm³ of OB will be dumped in one external OB Dumps an earmarked area covering 123.9 ha of land. 94.09 Mm³ of will be one internal OB dump in covering an area of 115.39 ha. The maximum height of external OB dump will not exceed 90 m and that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self- sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.
- (ix) Of the total quarry area of 231.73 Ha (On floor) & 291.21 Ha (On surface), the backfilled quarry area of 115.39 ha shall be reclaimed with plantation and there will be no void left at the end of the mining operations. The land after mining shall be restored for agriculture purpose.

B. General Conditions

(a) Mining

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.
- (ii) No change in the calendar plan including excavation, quantum of coal and waste should be made.
- (iii) Mining shall be carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).
- (iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal should strictly be complied with. A compliance report in this regard shall be submitted to Regional Office/ MOEF&CC every six month from the date of commencement of mining operations.

(b) Land Reclamation

- (i) Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office.
- (ii) The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.



- (iii) Final mine void depth should not be more than 40 m. The void area should be converted into water body. The remaining area should be back filled up to the ground level and covered with about a meter thick top soil. The land after mining should be restored for agriculture use.
- (iv) The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
- (v) Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.

(c) Emissions, Effluents, and Waste Disposal

- (i) Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (ii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- (iii) Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.
- (iv) Transportation of the coal by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the coal so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads. Furthermore, transportation of coal by road should be carried out by covered trucks only. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.
- (v) The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres.
- (vi) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and

material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust. Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured. Drills shall be wet operated.

(vii) The Project Proponent should not alter the major channels around the site. Appropriate embankment should be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary should be of suitable dimensions and critical patches should be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.

(viii) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.

(ix) The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.

(x) Sufficient number of Gullies to be provided for better management of water. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.

(xi) Industrial waste water (CHP, workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents. Sewage treatment plant of adequate capacity shall be installed in the existing colony and offices.

(d) Noise & Vibration Control

(i) 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.

(ii) Controlled blasting techniques should be practiced with use of delay detonators to mitigate ground vibrations and fly rocks.

(iii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.

(iv) Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of Coal Handling Plants and HEMM, etc. should be provided with ear plugs / muffs.



(e) Occupational Health & Safety

- (i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.
- (ii) Besides carrying out regular periodic health check-up of their workers, 20% 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 specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.
- (iii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Supervisory staff shall be held responsible for ensuring compulsory wearing of dust mask.
- (iv) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (v) In case of outsourcing of work through MDO, the project proponent shall ensure the strict compliance enforcement of the above conditions.

(f) Biodiversity

- (i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

(g) Implementation of Action Plan as Per Public Hearing & CSR Activities

- (i) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees should be compensated as per the norms laid out R&R Policy of the Company or the National R&R Policy or R&R Policy of the State Government, whichever is higher.
- (ii) The Board of every company, shall ensure that the company spends, in every financial year, at least two per cent. of the average net profits of the company made during the three immediately preceding financial years, in pursuance of its Corporate Social Responsibility Policy under Section 135 of the Companies Act, 2013, for the Socio Economic Development of the neighborhood Habitats which could be planned in consultation with the Panchayat of the local administration, and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. A report, in consonance with the format prescribed in Annexure of the Companies (Corporate Social Responsibility Policy) Rules, 2014, shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
- (iii) The project proponent shall follow the mitigation measures provided in Office Memorandum No.Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages

are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.

(iv) The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.

(h) Corporate Environment Responsibility

(i) The Company should have a well laid down Environment Policy approved by the Board of Directors.

(ii) The Environment Policy should prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.

(iii) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.

(iv) To have proper checks and balances, the Company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large.

(v) 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 Organization.

(vi) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.

(i) Statutory Obligations

(i) Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law, if any, as may be applicable to this project.

(ii) This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, as applicable for this Mining project.

(iii) The Project Proponent shall obtain Consent to Establish and Consent to Operate from the concerned State Pollution Control Board prior to commencement of mining operations and effectively implement all the conditions stipulated therein.

(iv) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.

(v) Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.

(j) Monitoring of Ambient Air & Water Quality and Reporting

(i) Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. The critical parameters as per

the Notification such as PM₁₀, PM_{2.5}, NO_x, and SO_x etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.

(ii) The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.

(iii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.

(iv) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.

(v) Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.

(vi) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.

(vii) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

(viii) The activities pertaining to development of green belt/ horticulture shall be reported to concerned DFO/Collector on six monthly basis from the date of commencement of mining operations.

(k) Miscellaneous

(i) For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years and submitted to the concerned authorities within 2 months of the completion of periodicity of monitoring. Similarly, the annual reports for the financial year should reach the office of the concerned authority on or before 1st June of following year.

(ii) Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.

(iii) The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

(iv) A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion / representation has been received while processing the proposal.

(v) State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar Office for 30 days.

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

(vii) The EC letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.

(viii) The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.

(ix) The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the PP for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.

5. The PP shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.

6. The project proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.


7. The PP shall set up an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.

8. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this EC and attract action under the provisions of Environment (Protection) Act, 1986.

9. 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 and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter. The PP 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.


10. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

11. This EC supersedes the earlier EC granted vide letter No. J-11015/1001/2007-IA.II(M) dated 7th January, 2011 for a capacity of 1.0 MTPA involving a total area of 767.17 ha.


13/2/2017
(S. K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. The Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg., Madam Cama Road, MUMBAI - 32.
3. The APCCF, Ministry of Environment Forest and Climate Change, Regional Office (Western Central Zone), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur Maharashtra - 1
4. The Member Secretary, Maharashtra State Pollution Control Board, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai – 400 002.
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110 032.
6. The Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. The District Collector, Nagpur, Government of Maharashtra
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board.


13/2/2017
(S. K. Srivastava)
Scientist E

No.J-11015/1001/2007-IA-II (M)pt.
Government of India
Ministry of Environment, Forest and Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 10th January, 2018

To,

The General Manager (Environment),
M/s Western Coalfields Ltd,
Coal Estate, 9th Floor, Civil Lines,
Nagpur - 1 (Maharashtra)

Email: gmenvironment.wcl@nic.in; wclenv@yahoo.in

Sub: Expansion of Gokul OCP from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha of M/s Western Coalfields Limited located in District Nagpur (Maharashtra) - Amendment in EC - reg.

Sir,

This has reference to your letter No WCL/HQ/Env/9-G & 20-C/711-713 dated 28.08.2017 along with online proposal No.IA/MH/CMIN/7059/2010 and subsequent letters dated 21.10.2017 and 27.10.2017 on the above-mentioned subject.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal for amendment in environmental clearance granted vide letter No.J-11015/1001/2007-IA.II(M) dated 13th February, 2017 in favour of M/s Western Coalfields Limited for the project 'Expansion of Gokul Opencast Coal Mine' from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha in District Nagpur (Maharashtra).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 21st meeting held on 27th October, 2017. The EAC, has recommended for amendment in the environmental clearance dated 13th February, 2017 for the above project, in respect of certain specific and general conditions stipulated therein, to be deleted/replaced with and now read as under:-

Specific Condition

(ix) *Of the total quarry area of 231.73 ha (on floor) & 291.21 ha (on surface), the backfilled quarry area of 115.39 ha shall be reclaimed with plantation in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry*

General Conditions

(a) Mining

(iv) *A progressive Mine Closure Plan duly approved by the Ministry of Coal / Company Board as applicable should strictly be complied with.*



(b) Land Reclamation

(iii) Final Mine void depth of 100 m shall be in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.

(c) Emission, Effluents & Waste Disposal

(x) To check run off and siltation, retaining wall of adequate dimension to be constructed at the toe of OB dumps and OB benches, as applicable, based on rainfall data.

(e) Occupational Health & Safety

(iv) Provision shall be made for housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical care, health care, creche etc as applicable to the project. The housing may be in the form of temporary structures to be removed after completion of the project, as applicable.

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of the Action plan as applicable shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

(g) Implementation of Action Plan as per public hearing & CSR activities

(iv) The project proponent shall make necessary alternative arrangements, wherever required, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court for acquiring grazing land. The sparse trees on such grazing ground, which provide mid day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted, as applicable.

(j) Monitoring of Ambient Air & Water quality and Reporting

(i) Monitoring of Ambient Air Quality to be carried out based on the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board,.....

4. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 13th February, 2017 for the project 'Expansion of Gokul Open Cast coal mine' from 1.0 MTPA to 1.875 MTPA of M/s Western Coalfields Limited in an area of 756.92 ha located in District Nagpur (Maharashtra), in respect of specific and general conditions, as mentioned in the para 3 above.



5. All other terms and conditions stipulated in the said Environmental Clearance dated 13th February, 2017 shall remain unchanged.

SKS
10/11/2018
(S K Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg, Madam Cama Road, Mumbai - 32
3. The APCCF, Ministry of Environment Forest and Climate Change, Regional Office (Western Central Zone), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur - 1 (Maharashtra)
4. The Member Secretary, Maharashtra State Pollution Control Board, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 2
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
6. The Member Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
7. The District Collector, **Nagpur**, Government of Maharashtra
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board

SKS
10/11/2018
(S K Srivastava)
Scientist E

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

WESTERN COALFIELDS LTD.



OCTOBER 2023 TO DECEMBER 2023

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

INDEX

Sl. No.	PARTICULARS	PAGE NO.
1	HEAVY METAL ANALYSIS REPORT	1 TO 10

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air Quality Monitoring Data For Heavy Metals	 TC-7102
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TEST REPORT NO.	RIN/TR/DEC /HM25	DATE OF ISSUE	25-01-24
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	UMRER	SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN : LQR 47	
No. of Pages	1		

Sl No.	Name of location	Location Code	Date of sampling
1	CONTRACTOR CAMP	UGOA-1	11-10-23
2	BESUR VILLAGE	UGOA-2	03-10-23
3	NAND VILLAGE	UGOA-3	03-10-23
4	POLGAON VILLAGE	UGOA-4	03-10-23

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

BDL: BELOW DETECTION LIMIT



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

1	This Report refers to the values related to the items tested.
2	This Report cannot be reproduced in part or full without written permission of the management.
3	** This parameter not regulated as per NAAQS

CSR DETAILS OF UMRER AREA

Expenditure incurred for works carried out in Umrer Area under CSR since 2013-14 is given below:

UMRER AREA CSR ACTIVITIES AT A GLANCE 2013-14					
SI No	CSR activities work	Village name	District	Activities Within 25 Kms/Beyond 25 Kms	Exp. Incurred 2013-14 (Fig. in Rs Lakhs)
1	Making Compound wall for Z.P. school building at Amgaon village (194 mtr)	Amgaon	Nagpur	Within 25 Km	7.79
2	Compound wall for School Building at Murpar village	Murpar	Nagpur	Within 25 Km	-0.06
3	Plantation on 100 Ha. Degraded forest land	Forest	Nagpur	Within 25 Km	31.00
4	Expenditure for Medicines & Allied	Various Villages	Nagpur	Within 25 Km	2.18
5	Mobile Medical Van	Various Villages	Nagpur	Within 25 Km	9.29
6	Mobile Medical Van Hiring	Various Villages	Nagpur	Within 25 Km	4.09
7	24 No. Health Camps in different Villages	Various Villages	Nagpur	Within 25 Km	2.00
8	Making Community Hall at Khadsangi village of Umrer Area.	Khadsangi	Nagpur	Within 25 Km	-0.13
9	Construction of Community Hall for WaigoanGhoturli G. P. At Umrer Area (12 Mt. X 6 Mtr)	Waigoan	Nagpur	Within 25 Km	14.24
10	Infrastructural help for GYM at Makardhokda Village	Makardhokda	Nagpur	Within 25 Km	0.86
11	Making CC road for Salki at Makardhokda village of Umrer Area (170 mtr.)	Makardhokda	Nagpur	Within 25 Km	-1.08
12	Making CC road (200 mtr length) at Navegaon Sadhu Gram Panchayat	Navegaon	Nagpur	Within 25 Km	4.32
13	Making CC road (200 mtr) at Dewali village	Dewali	Nagpur	Within 25 Km	0.12
14	Construction of Cement Concrete Road for Thirkhura Village under Navegaon Sadhu G.P atUmrer Area (120Mtrs.)	Thikara	Nagpur	Within 25 Km	0.08
15	Cement Concrete Road and Drain for Lohara Village under MKD Sub Area of Umrer Area (300	Lohara	Nagpur	Within 25 Km	6.52

	Mtrs.Road and 150 Mtrs. Drain)				
16	Cement Concrete Road & Drain for Dhurkheda Village under MKD Sub Area of Umrer Area.(300 Mtrs. Road and 150 Mtrs. Drain)	Dhurkheda	Nagpur	Within 25 Km	5.89
17	Construction of Cement Concret Road for Kalamna G.P. At Umrer Area (300Mtrs.)	Kalamna	Nagpur	Within 25 Km	-0.08
18	Cement Concrete Road and Drain for Mohapa Village under Dhurkheda G. P atUmrer Area (300 Mtrs.)	Mohapa	Nagpur	Within 25 Km	0.42
19	Cement Concrete Road for MKD Village at Umrer Area (400 Mtr.)	MKD	Nagpur	Within 25 Km	0.11
20	Cement Concrete Road at Pitichuha Village under Murpar Sub Area of UmrerArea(400 Mtr.)	Pitichuha	Nagpur	Within 25 Km	7.73
21	Cement Concrete for Bamhani Village at Umrer Area(400 Mtrs)	Bamhani	Nagpur	Within 25 Km	-0.40
22	Cement Concrete Road and Drain for Kotegaon Village under Gaonsut G.P.at Umrer Area (300 Mtrs& 150 Mtrs Drain)	Kotegaon	Nagpur	Within 25 Km	7.91
23	Cement concrete Road for Paradgaon Village of Saiki G.P. Of Umrer Area)	Paradgaon	Nagpur	Within 25 Km	7.13
24	Cement Concrete Road for Aaptur Gram Panchayat of Umrer Area (400 Mtr)	Aaptur	Nagpur	Within 25 Km	0.02
25	Cement Concrete for Saiki G.P. At Umrer Area(400 Mtr)	Saiki	Nagpur	Within 25 Km	0.35
26	Cement Concrete Road for NirwahGrampanchayat of Umrer Area(400 Mtr)	Nirwah	Nagpur	Within 25 Km	5.40
27	Cement Concrete Road at Shedegaon Village under Murpar Sub Area of Umrer Area (400 Mtr)	Shedegaon	Nagpur	Within 25 Km	8.88
28	Cement Concrete Road and Drain for Thombara Village at Umrer Area (300 Mtrs.& 150 Mtrs Drain)	Thombara	Nagpur	Within 25 Km	0.96
29	Construction of 400 Mtr Cement Concrete Road & 150 Mtr. Cement Concrete Drain at Waigaon village of Umrer Area	Waigaon	Nagpur	Within 25 Km	1.04
30	Cement concrete Road for Kumbhari Village under Dhurkheda G.P atUmrer Area	Kumbhari	Nagpur	Within 25 Km	7.40
31	Cement Concrete road for Bhivagade village under Deoli G.P.	Bhivagade	Nagpur	Within 25 Km	12.35

32	Cement concrete Road and drain for Pipardoh village Under Khursapar G.P.	Pipardoh	Nagpur	Within 25 Km	15.59
33	Construction of Cement Concrete Road & Drain for Shirpur G.P.	Shirpur	Nagpur	Within 25 Km	12.07
34	Construction of Cement Concrete Road for Thirkura Village under Navegaon G.P	Thirkura	Nagpur	Within 25 Km	11.21
35	Construction of WBM Road for Boribatathi Village under Waigoan-Ghoturli G.P. At Umrer Area (300 Mtrs.)	Boribatathi	Nagpur	Within 25 Km	0.11
36	WBM Road for Welsakhara Village under MKD Sub Area of Umrer Area (400 Mtrs.)	Welsakhara	Nagpur	Within 25 Km	0.11
37	2 No. Awareness Camps in villages under umrer area and educational help for poor children	Umrer	Nagpur	Within 25 Km	0.50
38	Distribution of blankets under CSR policy to MKD Sirpur, Khursapar, Kanwa Village	Various Villages	Nagpur	Within 25 Km	0.22
39	2 No. Of Sports Camps and 1 No. Kabbadi Tournament in villages under umrer Area	Umrer	Nagpur	Within 25 Km	0.76
40	Infrastructure help for Wild Life at MKD Village of Umrer Area (1 No. Pond & 1 No. Borewell)	MKD	Nagpur	Within 25 Km	7.29
41	2 No. Hand Pumps for Waigaon-Ghotuli of UA	Waigaon-Ghoturi	Nagpur	Within 25 Km	2.50
42	2 No. Hand Pumps & Common toilets For ladies of Haladgaon Village.	Haladgaon	Nagpur	Within 25 Km	4.20
43	Construction of Well and Storage arrangement and pipe line for Akola	Akola	Nagpur	Within 25 Km	9.45
44	Construction of Well & Storage arrangement and pipe line for Nirwah	Nirwah	Nagpur	Within 25 Km	6.30
45	Making RCC over head tank (50000 Ltr capacity) at Udasa village of Umrer Area.	Udasa	Nagpur ³	Within 25 Km	0.20
46	Making RCC over head tank (Capacity 40000Ltr) for Kanwa village of Umrer Area.	Kanwa	Nagpur	Within 25 Km	0.04

UMRER AREA CSR ACTIVITIES AT A GLANCE 2014-15

SI No	Csr Activities Work	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Exp. Incurred 2014-15 (Fig. In Rs Lakhs)
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1	Mobile Van (Hiring Charges for 2 Years)	Various Villages	Nagpur	Within 25 km	8.44
2	Mobile Medical Van	Various Villages	Nagpur	Within 25 km	4.17
3	Construction of Community Hall for WaigoanGhoturli G. P. At Umrer Area (12 Mt. X 6 Mtr)	Waigoan	Nagpur	Within 25 km	0.75
4	Cement Concrete Road at Shedegaon Village under Murpar Sub Area of Umrer Area (400 Mtr)	Shedegaon	Nagpur	Within 25 km	-0.29
5	Cement Concrete Road for Nirwah Grampanchayat of Umrer Area(400 Mtr)	Nirwah	Nagpur	Within 25 km	0.02
6	Cement concrete Road for Kumbhari Village under Dhurkheda G.P atUmrer Area	Kumbhari	Nagpur	Within 25 km	1.44
7	Cement Concrete road for Bhivagade village under DeoliG.p.	Bhivagade	Nagpur	Within 25 km	0.10
8	Cement concrete Road and drain for Pipardoh village Under Khursapar G.P.	Pipardoh	Nagpur	Within 25 km	0.68
9	Construction of Cement Concrete Road & Drain for Shirpur G.P.	Shirpur	Nagpur	Within 25 km	0.51
10	Construction of Cement concrete road at Lohara village to Khursapur G.P	Khusarpur	Nagpur	Within 25 km	9.08
11	Constsruction of Cement Concrete Road for Thirkura Village under Navegaon G.P	Thirkura	Nagpur	Within 25 km	0.28
12	2 No. Hand Pumps for Waigaon-Ghotuli of UA	Waigaon-Ghoturi	Nagpur	Within 25 km	0.004
13	2 No. Hand Pumps & Common toilets For ladies of Haladgaon Village.	Haladgaon	Nagpur	Within 25 km	4.72
14	Construction of Well and Storage arrangement and pipe line for Akola	Akola	Nagpur	Within 25 km	1.64

15	Construction of Well & Storage arrangement and pipe line for Nirwah	Nirwah	Nagpur	Within 25 km	8.24
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UMRER AREA CSR ACTIVITIES AT A GLANCE 2015-16

SI No	CSR Activities Work	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Exp. Incurred 2016-17(Fig. In Rs Lakhs)
1	Mobile van Hiring Charges and diesel	Various villages	Nagpur	within 25 km	5.88
2	Cement Concrete Road at Shedegaon Village under Murpar Sub Area of Umrer Area	Shedegaon	Nagpur	within 25 km	0.21

UMRER AREA CSR ACTIVITIES AT A GLANCE 2016-17

SI No	CSR Activities Work	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Exp. Incurred 2016-17(Fig. In Rs Lakhs)
1	Hiring charges for Mobile Van Ambulance for 2 years	Various villages	Nagpur	within 25 km	7.18
2	MCED Skill Development training for Villagers/PAPs of Besur piraya & Hewat	Besur Piraya & Hewat	Nagpur	within 25 km	1.28

UMRER AREA CSR ACTIVITIES AT A GLANCE 2017-18

SI No	CSR Activities Work	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Exp. Incurred 2017-18 (Fig. In Rs Lakhs)
1	Library in Waigaon, Ghotrulli and Makardhokda Village	Waigaon, Ghotrulli and Makardhkd Village	Nagpur	within 25 km	4.58
2	Construction of septic tanks in Tribal Ashramshala School in Udasa Village	Udasa Village	Nagpur	within 25 km	3.18
3	High Mast Light in Waigaon Ghotrulli Village	Waigaon Ghotrulli Village	Nagpur	within 25 km	2.97
4	Swachta I	-	-	-	2.65

5	Swachta II	-	-	-	0.74
6	Community Development	-	-	-	1.72

UMRER AREA CSR ACTIVITIES ATA GLANCE 2018-19					
SI No	CSR Activities Work	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Exp. Incurred 2017-18 (Fig. In Rs Lakhs)
1	Compound wall at Nand ZP School	Nand	Nagpur	within 25 km	10.54
2	Medical Camps	Various villages	Nagpur	within 25 km	0.49
3	Swachta	-	-	-	0.98

UMRER AREA CSR ACTIVITIES AT A GLANCE 2019-20					
SI No.	Name of activity	Village Name	DISTRICT	Activities Within 25 Kms/Beyond 25 Kms	Expenditure (Rs. Lakh)(2019-20)
1	Compound wall of ZP school Nand (Carry forward Work)	Nand	Nagpur	within 25 km	1.44
2	Green Haat at Besur Village	Besur	Nagpur	within 25 km	7.17
1	Medical Camp in Village /CSR clinic/treatment facility for village patients	Various Villages	Nagpur	within 25 km	2.3
2	RO Plant in Piraya Village	Piraya	Nagpur	within 25 km	10.93
3	RO plant in Makardhokada village	Makardhokada	Nagpur	within 25 km	11.66
4	RO plant at Waigaon Ghotrulli village(room already available)	Waigaon Ghotrulli	Nagpur	within 25 km	4.52
5	Solar water pump at Murpar village	Murpar	Nagpur	within 25 km	4.62
6	Village sports kabbadi/others	Various Villages	Nagpur	within 25 km	0.90
7	Solar panel on community hall building Bhagwanpur. (New activity approved in place of deepening of pond)	Bhagwanpur	Nagpur	within 25 km	2.41
8	IEC activities of Umrer Area	Various Villages	Nagpur	within 25 km	0.48

9	RO plant for ZP Govt school Umrer Area	Various Villages	Nagpur	within 25 km	1.85
10	Skill Development Programmes 8 Nos. of programme completed	Various Villages	Nagpur	within 25 km	12.02
11	Support to community during lockdown due to Corona Virus	Various Villages	Nagpur	within 25 km	4.50

UMRER AREA CSR ACTIVITIES AT A GLANCE 2020-21					
SI No.	Name of activity	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Expenditure (Rs. Lakh) (2020-21)
1	Covid -19 crisis	Various villages	Nagpur	within 25 km	1.19
2	Organizing Medical Camps	Various villages	Nagpur	within 25 km	0.63
3	Village sports –cricket/football	Various villages	Nagpur	within 25 km	0.93
4	Financial assistance to Panchayat samiti for construction of magic pits(water harvesting) structure in different villages		Nagpur	within 25 km	1.19
5	Installation of RO plant at ZP school Kanvha	Kanvha	Nagpur	within 25 km	0.40
6	Public toilet construction for gents and ladies at Makardhokada village	Makardhokada	Nagpur	within 25 km	14.40 (Work under execution)
7	Construction of concrete road 250mts at Nand village	Nand	Nagpur	within 25 km	7.73
8	Construction of compound wall at ZP school Bandar	Bandar	Nagpur	within 25 km	3.4
9	Toilet construction at ZP school Bandar	Bandar	Nagpur	within 25 km	4.82(Work under execution)
10	Toilet construction at ZP school (high school) Nand	Nand	Nagpur	within 25 km	11.79
11	E-rickshaw for Garbage collection to nearby village	WaigaonGhotrulli	Nagpur	within 25 km	1.77
12	Financial support to Panchayat Samiti Umred Plastic Baler machine for disposing/transporting for recycle and alternate usage		Nagpur	within 25 km	3.00
13	IEC activities (Swachta material, cotton cloth bag, awareness campaign, rallies, competition) etc in nearby schools and villages	Various Villages	Nagpur	within 25 km	0.42

UMRER AREA CSR ACTIVITIES AT A GLANCE 2021-22					
SI No.	Name of activity	Village Name	District	Activities Within 25 Kms/Beyond 25 Kms	Expenditure (Rs. Lakh) (2021-22)
1	Covid 19 relief	Various villages	Nagpur	within 25 km	8.198
2	02 nos of RO plants for khadasanghi and Amdi (bedge) villages	khadasanghi and Amdi (bedge)	Nagpur	within 25 km	13.65
3	IEC activities in nearby schools and villages	Various villages	Nagpur	within 25 km	0.44
4	RO Plant in ZP School, Shirpur	Shirpur	Nagpur	within 25 km	0.5
5	Installation of submersible pump, GI pipe connection and hand washing pipe		Nagpur	within 25 km	1.99
6	Distribution of 20 nos of sewing machine	Various villages	Nagpur	within 25 km	1.36

UMRER AREA CSR ACTIVITIES AT A GLANCE 2022-23					
Sl. No.	Name of activity	Village Name	District	Activities Within 25 Kms/ Beyond 25 Kms	Expenditure (Rs. Lakh) (2022-23)
1	Swachtha Action Plan activities	Various villages	Nagpur	within 25 km	1.46
2	Medical Camps related to Osteoporosis, Cancer Detection etc	Various villages	Nagpur	within 25 km	1.99
3	01 no of RO Plant at polgaon village	Polgaon	Nagpur	within 25 km	8.73
4	01 no of RO Plant at Kanwa village	Kanwa	Nagpur	within 25 km	4.99
5	GYM equipment at Shirpur Village	Shirpur	Nagpur	within 25 km	1.12
6	02 nos. solar pump in existing handpump and associated tank along with stand at Bhagwanpur village	Bhagwanpur	Nagpur	within 25 km	8.96
7	01 no of RO Plant at ZP school Kalamna, RO plant at ZP school Khursapur-Lohara, Nagpur Parishad school Waghmare	Various villages	Nagpur	within 25 km	1.09
8	Solar lamp post at Besur Village	Besur	Nagpur	Within 25 Km	1.34
9	6 nos of handpump at Murpar village	Mupar	Chandrapur	Within 25 Km	6.27
10	01 no of solar pump, borewell and associated tank along with stand at Shivapur (Bandar) village	Shivapur	Chandrapur	Within 25 Km	5.30

11	35 nos of Bi cycle for school students	Various villages	Nagpur	Within 25 Km	1.78
12	1 No borewell along with solar pump at Sayki Village	Sayki Village	Nagpur	Within 25 Km	9.38
13	Borewell development at Bhagwanpur Village	Bhagwanpur	Nagpur	Within 25 Km	8.99

UMRER AREA CSR ACTIVITIES AT A GLANCE 2023-24

Sl. No.	Name of activity	Village Name	District	Activities Within 25 Kms/ Beyond 25 Kms	Expenditure (Rs. Lakh) (2023-24)
1	1 no of smart class and digital content for Gurukul Ashramshal School at Udasava Village	Udasava	Nagpur	Within 25 Km	2.38
2	Swachtha Action Plan activities	Various villages	Nagpur	within 25 km	2.00
3	Water cooler with in built safe water arrangement for ensuring potable water for students to reduce water borne diseases for 6 nos of ZP school (Lohara, Kalamna, Dhavda, Kanwa, Pahami, Nagar parishad waghmare school)	Various villages	Nagpur	within 25 km	5.93
4	Smart class equipment for 3 ZP school (Shirpur, Waigaon- Ghoturli & Pahami)	Various villages	Nagpur	within 25 km	6.30
5	Sanitary pads incinerator Machine/ vending machine for improved hygiene and health for Girl students in educational institution and rural hospital through HLL life care	Various villages	Nagpur	within 25 km	3.00
6	Nutritional support to pregnant women in coordination with rural hospital Umred	Umred	Nagpur	within 25 km	3.95
7	TV Screen for spreading awareness of various IEC activities to patients visiting Rural Hospital Umred	Umred	Nagpur	within 25 km	1.40
8	Installation of solar pump & making water collection point for villagers in Polgaon- Bhagwanpur (GP)	Polgaon- Bhagwanpur	Nagpur	within 25 km	3.00
9	Construction of toilet and handwashing station for ZP school Kanwa-Shirpur (GP)	Kanwa-Shirpur	Nagpur	within 25 km	4.75
10	Access to potable water for reducing water borne diseases by providing RO treated water along with water supply arrangement for Bhagwanpur villagers	Bhagwanpur	Nagpur	within 25 km	7.03
11	Access to potable water for reducing water borne diseases by providing RO treated water along with water supply arrangement for Sayki villagers	Sayki	Nagpur	within 25 km	10.06

12	Solar pump on existing borewell for supplying water for Besur villagers	Besur	Nagpur	Within 25 Km	3.22
13	Support to SHGs by providing machine/appliance to improve for their livelihood activity	Various villages	Nagpur	Within 25 Km	3.38
14	17 nos Bi-cycle distribution to School students of Khandjhari Village- Piraya (GP)	Khandjhari Village- Piraya	Nagpur	Within 25 Km	1.08
15	Medical Camp in nearby villages	Various villages	Nagpur	Within 25 Km	1.98
	TOTAL				59.50



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

Project Name:	Gokul Oc Mine		
Project Address:	Near Piraya Village, Bander Coalfield		
Village:	Piraya	Block:	Umred
District:	Nagpur	State:	Maharashtra
Pin Code:			
Communication Address:	General Manager (env), Wcl (hq), Coal Estate, Civil Line, Nagpur, Nagpur, Maharashtra - 440001		
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/ORIG/2022/14744											
2. Application No.:	21-4/328/MH/MIN/2016	3. Category: (GWRE 2020)	Safe									
4. Project Status:	Existing Project	5. NOC Type:	New									
6. Valid from:	07/03/2022	7. Valid up to:	06/03/2024									
8. Ground Water Abstraction Permitted:												
	Fresh Water		Saline Water	Dewatering		Total						
	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year				
	0.00	0.00			2430.00	886950.00						
9. Details of ground water abstraction /Dewatering structures												
	Total Existing No.:0						Total Proposed No.:0					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Dewatering Structure*	0	0	0	0	0	1	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
10. Ground Water Abstraction/Restoration Charges paid (Rs.):							4434750.00					
11. 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			

(Compliance Conditions given overleaf)

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

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 m³/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).

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

WESTERN COALFIELDS LIMITED
(A Govt. of India Undertaking)
At Pirawa P.O Besur
Dist. Nagpur (M.H.) - 441214



OFFICE OF THE CIVIL DEPARTMENT
GOKUL OPEN CAST MINE
MURPAR SUB AREA
Umrer Area Office

Ref No:- WCL/UA/MUR/GOCM/ 2017/ 2838 dt. 25/2/17

To,
The Sarpanch /Secretary
Gram Panchayat ,Pirawa
Po:- Besure
Tha :- Bhiwapur
Dist :- Nagpur

Subject :- Environment Clearance of Gokul OCM for 1.875 MTPA Capacity

Ref E.C No :- J-1105/1101/2007-JA-II (M) dt .13/02/2017

Dear Sir,

Please find enclosed the copy of environment clearance of Gokul Open Cast Mine for 1.875 MTPA capacity issued from Ministry of Environment, Forest & Climate change , New Delhi dt. 13.02.2017 issued vide above reference No.

This is for your kind information please.

Thanking You,

Yours faithfully,

Asst. Manager (Civil)
for Murpar Sub Area

Copy To,

- 1) S.A.M - Murpar Sub Area.
- 2) ANO (Envt.) U.A
- 3) Colliery Manager, Gokul OCM.



वेस्टर्न कोलफील्ड्स लिमिटेड
(कोल इंडिया लिमिटेडची सहाय्यक कंपनी)

सूचना

वेस्टर्न कोलफील्ड्स लिमिटेडच्या उमरेड क्षेत्रा अंतर्गत विस्तारीत गोकुल खुली कोळसा खान (उत्पादन क्षमता 1.00 मिलियन टन प्रति वर्ष पासून 1.875 मिलियन टन प्रति वर्ष पर्यंत व क्षेत्र 756.92 हेक्टर) क्षेत्र साठी पर्यावरण वन व जलवायु परिवर्तन मंत्रालय द्वारे पत्र क्रमांक J/11015/1001/2007-I.A II(M) दिनांक 13.02.2017 अनुसार पर्यावरण स्वीकृती दिली आहे पर्यावरण स्वीकृतीच्या पत्राची प्रत महाराष्ट्र प्रदुषण नियंत्रण मंडळ याच्याकडे उपलब्ध आहे आणि पर्यावरण वन व जलवायु परिवर्तन मंत्रालयाच्या खाली दिलेल्या वेबसाईट वर पाहू शकता.

<http://envfor.nic.in>



Western Coalfields Limited
(A Subsidiary of Coal India Limited)

NOTICE

Environmental Clearance has been accorded for Expansion of Gokul OC (from 1.0 MTPA to 1.875 MTPA in an area of 756.92 ha) under Umrer Area of M/s. Western Coalfields Limited, by Ministry of Environment & Forests vide letter no. J-11015/1001/2007-I.A.II (M) dated 13.02.2017 and a copy of the clearance letter is available with the Maharashtra Pollution Control Board and may also be seen at website of the Ministry of Environment, Forests & Climate Change (MoEF&CC) at

<http://envfor.nic.in>



वेस्टर्न कोलफील्ड्स लिमिटेड

(कोल इंडिया लिमिटेडची सहाय्यक कंपनी)

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Western Coalfields Limited

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WESTERN COALFIELDS LIMITED
(A Govt. of India Undertaking)
At Pirawa P.O Besur
Dist. Nagpur (M.H.) - 441214



OFFICE OF THE CIVIL DEPARTMENT
GOKUL OPEN CAST MINE
MURPAR SUB AREA
Umrer Area Office

Ref No:- WCL/UA/MUR/GOCM/ 2017/ 2838 dt. 25/2/17

To,
The Sarpanch /Secretary
Gram Panchayat ,Pirawa
Po:- Besure
Tha :- Bhiwapur
Dist :- Nagpur

Subject :- Environment Clearance of Gokul OCM for 1.875 MTPA Capacity

Ref E.C No :- J-1105/1101/2007-JA-II (M) dt .13/02/2017

Dear Sir,

Please find enclosed the copy of environment clearance of Gokul Open Cast Mine for 1.875 MTPA capacity issued from Ministry of Environment, Forest & Climate change , New Delhi dt. 13.02.2017 issued vide above reference No.

This is for your kind information please.

Thanking You,

Yours faithfully,

Asst. Manager (Civil))
for Murpar Sub Area

Copy To,

- 1) S.A.M – Murpar Sub Area.
- 2) ANO (Envt.) U.A
- 3) Colliery Manager, Gokul OCM.



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:	Gokul Oc Mine											
Project Address:	Near Piraya Village, Bander Coalfield											
Village:	Piraya	Block:	Umred									
District:	Nagpur	State:	Maharashtra									
Pin Code:												
Communication Address:	Office Of Sub Area Manager, Murpar Sub Area, Wcl Umrer Area, Bhivapur, Nagpur, Maharashtra - 441214											
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/1/2025/11581			2. Date of Issuance	07/05/2025							
3. Application No.:	21-4/328/MH/MIN/2016			4. Category: (GWRE 2024)	Safe							
5. Project Status:	Existing With Additional Ground Water Requirment			6. NOC Type:	Renewal							
7. Valid from:	07/03/2024			8. Valid up to:	06/03/2026							
9. Ground Water Abstraction Permitted:												
	Fresh Water		Saline Water		Dewatering		Total					
	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day m ³ /year					
	0.00	0.00			4973.00	1815145.00	4973.00 1815145.00					
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	1	0	0	0	0	0	1
*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.):							7751538.00					
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			

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

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

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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(Compliance Conditions given overleaf)

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

CENTRAL GROUND WATER AUTHORITY

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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 m³/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.)

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

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

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.:	21-4/328/MH/MIN/2016	Date of Issuance:	07/05/2025
Name of Firm:	GOKUL OC MINE		
AppType Category:	Coal		
Application Type:	Mining		
PAN/GSTIN No. of Firm/Individual:	/		

S N	Description	Amount (Rs.)
1.	Application Processing Fee	5000.00
2.	Ground Water Abstraction charges	7751538.00
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	250000.00
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 Eighty Lakh Six Thousand Five Hundred Thirty Eight Only		8006538.00

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

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
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पानी बचाये - जीवन बचाये
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

No	Date	Location	Distance from	No of	Size	Weight	Chamber	TR	VR	RDD	PVS	Remarks	Signature	
20		Location of blasting	Distance from	No of	Size	Weight	Chamber	TR	VR	RDD <td>PVS</td> <td>Remarks</td> <td>Signature</td>	PVS	Remarks	Signature	
19	28.08.25	Pranava Point	300m	49	3x2.5x2.5	1800kg	one hole	1.69	1.69	1.53	1.7	103.19	OK	AD
18	31.08.25	Pranava Point	300m	57	3.5x2.5x2.5	2500kg	one hole	1.82	1.86	1.69	1.87	107.09	OK	AD
17	07.09.25	Pranava Point	300m	80	3x2.5x2.5	1800kg	one hole	2.29	2.38	2.15	1.05	104.09	OK	AD
16	07.09.25	Pranava Point	300m	54	3.5x2.5x2.5	2500kg	one hole	2.28	2.46	2.23	2.46	103.43	OK	AD
15	12.09.25	Pranava Point	300m	73	3.5x2.5x2.5	2500kg	one hole	1.12	1.14	1.06	1.09	98.04	OK	AD
14	16.09.25	Pranava Point	200m	84	3x2.5x2.5	1800kg	one hole	1.56	1.61	1.46	1.61	100.21	OK	AD
13	12.05.25	Pranava Point	200m	70	3x2.5x2.5	1800kg	one hole	2.07	2.15	1.94	2.15	102.10	OK	AD
12	28.05.25	Pranava Point	200m	82	2.7x2.5x2.5	1700kg	one hole	1.50	1.54	1.40	1.55	103.65	OK	AD
11	17.06.25	Pranava Point	150m	45	3x2.5x2.5	1500kg	one hole	1.21	1.19	1.08	1.09	106.18	OK	AD
10	19.06.25	Pranava Point	150m	38	2.0x2.5x2.5	900kg	one hole	2.92	2.92	2.88	3.12	111.09	OK	AD
9	28.06.25	Pranava Point	150m	40	2.5x2.5x2.5	800kg	one hole	2.19	2.12	1.15	1.02	102.12	OK	AD
8	28.06.25	Pranava Point	150m	50	2.5x2.5x2.5	800kg	one hole	1.13	1.15	1.02	1.02	102.12	OK	AD
7	28.06.25	Pranava Point	150m	65	2.5x2.5x2.5	1175kg	one hole	2.24	2.05	2.22	1.21	101.29	OK	AD



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

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



APRIL 2025

Environment Laboratory

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/APRIL-25/11	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


DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04-04-2025	05-04-2025	312	210	57	23	15	Cloudy sky / Calm
20-04-2025	21-04-2025	301	200	53	19	13	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04-04-2025	05-04-2025	87	27	7	BDL	Clear sky / Calm
05-04-2025	06-04-2025	89	29	8	BDL	Clear sky / Calm
10-04-2025	11-04-2025	91	31	11	BDL	Clear sky / Calm
11-04-2025	12-04-2025	90	32	12	10	Clear sky / Calm
18-04-2025	19-04-2025	88	28	8	BDL	Clear sky / Light breeze
19-04-2025	20-04-2025	92	33	13	11	Clear sky / Light breeze
25-04-2025	26-04-2025	86	25	7	BDL	Clear sky / Light breeze
26-04-2025	27-04-2025	93	34	14	12	Clear sky / Light breeze
NAAQS, 2009		100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04-04-2025	05-04-2025	85	25	7	BDL	Clear sky / Calm
05-04-2025	06-04-2025	92	30	10	BDL	Clear sky / Calm
10-04-2025	11-04-2025	89	28	9	BDL	Clear sky / Calm
11-04-2025	12-04-2025	84	26	7	BDL	Clear sky / Calm
18-04-2025	19-04-2025	93	32	11	BDL	Clear sky / Light breeze
19-04-2025	20-04-2025	87	28	9	BDL	Clear sky / Light breeze
25-04-2025	26-04-2025	90	30	8	BDL	Clear sky / Light breeze
26-04-2025	27-04-2025	92	32	12	10	Clear sky / Light breeze
NAAQS, 2009		100	60	80	80	

POLGAON VILLAGE UGOA4						
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
04-04-2025	05-04-2025	88	23	7	BDL	Clear sky / Calm
05-04-2025	06-04-2025	90	31	9	BDL	Clear sky / Calm
10-04-2025	11-04-2025	92	34	11	BDL	Clear sky / Calm
11-04-2025	12-04-2025	94	32	12	10	Clear sky / Calm
18-04-2025	19-04-2025	87	28	8	BDL	Clear sky / Light breeze
19-04-2025	20-04-2025	89	29	9	BDL	Clear sky / Light breeze
25-04-2025	26-04-2025	93	30	11	BDL	Clear sky / Light breeze
26-04-2025	27-04-2025	95	35	13	11	Clear sky / Light breeze
NAAQS, 2009		100	60	80	80	

NEAR VIEW POINT UGOA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
04-04-2025	05-04-2025	295	178	50	14	11
20-04-2025	21-04-2025	286	167	46	12	10
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7182
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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: UGOW1				
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
04-04-2025	7.81	31	40	BDL
20-04-2025	7.75	33	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): UGOW2				
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
04-04-2025	7.54	27	32	BDL
20-04-2025	7.68	19	28	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7182
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NOISE LEVEL MONITORING DATA

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

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
APRIL'25	09-04-2025	64.6	60.5
APRIL'25	24-04-2025	63.3	61.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
APRIL'25	09-04-2025	59.8	53.4
APRIL'25	24-04-2025	60.4	52.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

POLGAON VILLAGE: UGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
APRIL'25	09-04-2025	48.5	43.7
APRIL'25	24-04-2025	49.5	43.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



MAY 2025

Environment Laboratory

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JARIPATKA, NAGPUR, PIN – 440 014

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/MAY-25/11	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

CONTRACTOR CAMP UGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
04.05.2025	05.05.2025	268	153	42	13	11	Cloudy sky / Calm
26.05.2025	27.05.2025	279	168	45	15	12	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BESUR VILLAGE UGOA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	2	6	10	
04.05.2025	05.05.2025	88	28	9	BDL	Clear sky / Light breeze
05.05.2025	06.05.2025	90	31	10	BDL	Clear sky / Light breeze
10.05.2025	11.05.2025	92	33	12	10	Clear sky / Light breeze
11.05.2025	12.05.2025	89	30	10	BDL	Clear sky / Light breeze
16.05.2025	17.05.2025	87	27	7	BDL	Rain, Partially cloudy sky / Light breeze
17.05.2025	18.05.2025	78	25	6	BDL	Rain, Partially cloudy sky / Light breeze
22.05.2025	23.05.2025	75	24	7	BDL	Partially cloudy sky / Light breeze
23.05.2025	24.05.2025	76	26	8	BDL	Partially cloudy sky / Light breeze
27.05.2025	28.05.2025	81	31	10	BDL	Partially cloudy sky / Light breeze
28.05.2025	29.05.2025	80	30	9	BDL	Rain, Partially cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

NAND VILLAGE UGOA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	2	6	10	
04.05.2025	05.05.2025	89	31	10	BDL	Clear sky / Light breeze
05.05.2025	06.05.2025	91	33	11	10	Clear sky / Light breeze
10.05.2025	11.05.2025	93	34	12	11	Clear sky / Light breeze
11.05.2025	12.05.2025	90	30	9	BDL	Clear sky / Light breeze
16.05.2025	17.05.2025	88	29	8	BDL	Rain, Partially cloudy sky / Light breeze
17.05.2025	18.05.2025	86	28	7	BDL	Rain, Partially cloudy sky / Light breeze
22.05.2025	23.05.2025	79	26	8	BDL	Partially cloudy sky / Light breeze
23.05.2025	24.05.2025	76	25	6	BDL	Partially cloudy sky / Light breeze
27.05.2025	28.05.2025	77	27	7	BDL	Partially cloudy sky / Light breeze
28.05.2025	29.05.2025	83	31	10	BDL	Rain, Partially cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

POLGAON VILLAGE UGOA4						
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
04.05.2025	05.05.2025	91	33	11	10	Clear sky / Light breeze
05.05.2025	06.05.2025	93	35	13	12	Clear sky / Light breeze
10.05.2025	11.05.2025	89	30	10	BDL	Clear sky / Light breeze
11.05.2025	12.05.2025	87	28	9	BDL	Clear sky / Light breeze
16.05.2025	17.05.2025	76	25	8	BDL	Rain, Partially cloudy sky / Light breeze
17.05.2025	18.05.2025	74	24	7	BDL	Rain, Partially cloudy sky / Light breeze
22.05.2025	23.05.2025	77	26	6	BDL	Partially cloudy sky / Light breeze
23.05.2025	24.05.2025	82	30	9	BDL	Partially cloudy sky / Light breeze
27.05.2025	28.05.2025	84	32	12	11	Partially cloudy sky / Light breeze
28.05.2025	29.05.2025	86	34	11	10	Rain, Partially cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

NEAR VIEW POINT UGOA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂		SO ₂
		5	5	2	6		10
04.05.2025	05.05.2025	288	183	52	16	13	Cloudy sky / Calm
26.05.2025	27.05.2025	279	174	48	14	12	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

J. Singh

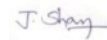
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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SAMPLE DESCRIPTION	Water sample	
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 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: UGOW1				
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
04.05.2025	7.88	25	36	BDL
26.05.2025	7.17	20	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): UGOW2				
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
04.05.2025	7.96	18	28	BDL
26.05.2025	7.79	16	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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

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

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'25	14.05.2025	65.4	59.6
MAY'25	27.05.2025	62.8	60.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'25	14.05.2025	60.6	52.5
MAY'25	27.05.2025	65.5	59.8
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

POLGAON VILLAGE: UGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'25	14.05.2025	50.2	43.3
MAY'25	27.05.2025	48.8	40.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JUNE 2025

Environment Laboratory

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/JUNE-25/11	DATE OF ISSUE	7/25/2025
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:		16-06-25 TO 15-07-25

CONTRACTOR CAMP UGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
6/4/2025	6/5/2025	258	142	40	12	10	Cloudy sky / Calm
6/26/2025	6/27/2025	263	151	43	14	11	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BESUR VILLAGE UGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
6/4/2025	6/5/2025	75	26	6	BDL	Rain, Partially cloudy sky / Light breeze	
6/5/2025	6/6/2025	77	29	8	BDL	Rain, Partially cloudy sky / Light breeze	
6/11/2025	6/12/2025	80	28	9	BDL	Partially cloudy sky / Light breeze	
6/12/2025	6/13/2025	76	25	8	BDL	Partially cloudy sky / Light breeze	
6/18/2025	6/19/2025	79	30	8	BDL	Partially cloudy sky / Light breeze	
6/19/2025	6/20/2025	81	32	9	BDL	Rain, Partially cloudy sky / Light breeze	
6/25/2025	6/26/2025	83	34	10	BDL	Rainy, cloudy sky / Light breeze	
6/26/2025	6/27/2025	78	30	7	BDL	Rainy, cloudy sky / Light breeze	
NAAQS, 2009		100	60	80	80		


NAND VILLAGE UGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
6/4/2025	6/5/2025	76	26	7	BDL	Rain, Partially cloudy sky / Light breeze	
6/5/2025	6/6/2025	78	28	8	BDL	Rain, Partially cloudy sky / Light breeze	
6/11/2025	6/12/2025	75	27	7	BDL	Partially cloudy sky / Light breeze	
6/12/2025	6/13/2025	81	33	9	BDL	Partially cloudy sky / Light breeze	
6/18/2025	6/19/2025	83	35	10	BDL	Partially cloudy sky / Light breeze	
6/19/2025	6/20/2025	85	36	11	BDL	Rain, Partially cloudy sky / Light breeze	
6/25/2025	6/26/2025	77	27	7	BDL	Rainy, cloudy sky / Light breeze	
6/26/2025	6/27/2025	74	24	6	BDL	Rainy, cloudy sky / Light breeze	
NAAQS, 2009		100	60	80	80		

POLGAON VILLAGE UGOA4						
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	2	6	10	
6/4/2025	6/5/2025	80	29	10	BDL	Rain, Partially cloudy sky / Light breeze
6/5/2025	6/6/2025	83	31	12	BDL	Rain, Partially cloudy sky / Light breeze
6/11/2025	6/12/2025	79	26	8	BDL	Partially cloudy sky / Light breeze
6/12/2025	6/13/2025	81	30	10	BDL	Partially cloudy sky / Light breeze
6/18/2025	6/19/2025	78	28	9	BDL	Partially cloudy sky / Light breeze
6/19/2025	6/20/2025	76	26	7	BDL	Rain, Partially cloudy sky / Light breeze
6/25/2025	6/26/2025	82	32	10	BDL	Rainy, cloudy sky / Light breeze
6/26/2025	6/27/2025	85	34	11	BDL	Rainy, cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

NEAR VIEW POINT UGOA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM ₁₀	PM _{2.5}	NO ₂		SO ₂
FROM	TO	5	5	2	6	10	
6/4/2025	6/5/2025	272	169	50	15	12	Cloudy sky / Calm
6/26/2025	6/27/2025	280	174	56	17	14	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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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 :	16-06-25 TO 15-07-25

MINE WATER DISCHARGE: UGOW1				
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
6/4/2025	7.83	33	44	BDL
6/27/2025	7.37	31	36	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): UGOW2				
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
6/4/2025	7.78	21	32	BDL
6/27/2025	7.6	28	40	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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

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

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
	JUNE'25	6/13/2025	64.7
JUNE'25	6/27/2025	63.4	61.1
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
	JUNE'25	6/13/2025	61.9
JUNE'25	6/27/2025	67.5	61.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

POLGAON VILLAGE: UGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
	DETECTION LIMIT	DAY TIME	NIGHT TIME
	JUNE'25	6/13/2025	51.4
JUNE'25	6/27/2025	48.3	40.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


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ENVIRONMENTAL MONITORING REPORT

GOKUL OC

UMRER AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2025

Environment Laboratory

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-25/11	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

CONTRACTOR CAMP UGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
12-07-2025	13-07-2025	270	162	45	15	12	Clear sky / Light breeze
21-07-2025	22-07-2025	259	149	42	13	10	Cloudy sky / Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BESUR VILLAGE UGOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
03-07-2025	04-07-2025	74	24	6	BDL	Rainy sky / Light breeze	
04-07-2025	05-07-2025	77	26	7	BDL	Cloudy sky / Light breeze	
09-07-2025	10-07-2025	78	29	8	BDL	Rainy sky, over cast / Light breeze	
10-07-2025	11-07-2025	80	31	9	BDL	Rainy sky, over cast / Light breeze	
14-07-2025	15-07-2025	82	33	10	BDL	Partially cloudy sky / Light breeze	
17-07-2025	18-07-2025	84	32	11	BDL	Rain, Partially cloudy sky / Light breeze	
22-07-2025	23-07-2025	86	35	13	10	Rain, Partially cloudy sky / Light breeze	
23-07-2025	24-07-2025	79	28	8	BDL	Partially cloudy sky / Light breeze	
28-07-2025	29-07-2025	81	30	9	BDL	Rainy sky, over cast / Light breeze	
29-07-2025	30-07-2025	76	25	8	BDL	Rainy sky, over cast / Light breeze	
NAAQS, 2009		100	60	80	80		


NAND VILLAGE UGOA3							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂		
FROM	TO	5	2	6	10		
03-07-2025	04-07-2025	75	25	6	BDL	Rainy sky / Light breeze	
04-07-2025	05-07-2025	79	27	7	BDL	Cloudy sky / Light breeze	
09-07-2025	10-07-2025	81	29	8	BDL	Rainy sky, over cast / Light breeze	
10-07-2025	11-07-2025	83	30	9	BDL	Rainy sky, over cast / Light breeze	
14-07-2025	15-07-2025	80	29	9	BDL	Partially cloudy sky / Light breeze	
17-07-2025	18-07-2025	82	31	10	BDL	Rain, Partially cloudy sky / Light breeze	
22-07-2025	23-07-2025	78	27	6	BDL	Rain, Partially cloudy sky / Light breeze	
23-07-2025	24-07-2025	77	26	7	BDL	Partially cloudy sky / Light breeze	
28-07-2025	29-07-2025	84	33	10	BDL	Rainy sky, over cast / Light breeze	
29-07-2025	30-07-2025	76	26	6	BDL	Rainy sky, over cast / Light breeze	
NAAQS, 2009		100	60	80	80		

POLGAON VILLAGE UGOA4						
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
03-07-2025	04-07-2025	76	27	7	BDL	Rainy sky / Light breeze
04-07-2025	05-07-2025	80	32	10	BDL	Cloudy sky / Light breeze
09-07-2025	10-07-2025	78	29	9	BDL	Rainy sky, over cast / Light breeze
10-07-2025	11-07-2025	77	26	8	BDL	Rainy sky, over cast / Light breeze
14-07-2025	15-07-2025	79	27	7	BDL	Partially cloudy sky / Light breeze
17-07-2025	18-07-2025	80	29	9	BDL	Rain, Partially cloudy sky / Light breeze
22-07-2025	23-07-2025	82	32	10	BDL	Rain, Partially cloudy sky / Light breeze
23-07-2025	24-07-2025	84	33	11	BDL	Partially cloudy sky / Light breeze
28-07-2025	29-07-2025	77	28	8	BDL	Rainy sky, over cast / Light breeze
29-07-2025	30-07-2025	83	31	10	BDL	Rainy sky, over cast / Light breeze
NAAQS, 2009		100	60	80	80	

NEAR VIEW POINT UGOA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
12-07-2025	13-07-2025	269	163	52	16	14
21-07-2025	22-07-2025	257	152	48	14	12
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120

J. Gang

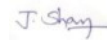
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SAMPLE DESCRIPTION	Water sample		
Test Required	pH: IS 3025 -(Part 11), TSS: IS 3025-(Part 17), COD: APHA (24th Edition) 5220 C , O & G: IS 3025-(Part 39) & BOD: IS 3025 (Part 44)		
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-25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

MINE WATER DISCHARGE: UGOW1				
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
12-07-2025	7.75	24	36	BDL
21-07-2025	7.46	22	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): UGOW2				
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
12-07-2025	7.36	19	28	BDL
21-07-2025	7.93	15	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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

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

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'25	10-07-2025	65.1	59.0
JULY'25	22-07-2025	63.1	57.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'25	10-07-2025	59.4	51.5
JULY'25	22-07-2025	58.2	50.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

POLGAON VILLAGE: UGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		DETECTION LIMIT	20
JULY'25	10-07-2025	51.8	44.1
JULY'25	22-07-2025	50.5	43.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


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ENVIRONMENTAL MONITORING REPORT

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/AUG-25/11	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

CONTRACTOR CAMP UGOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	5	2	6	10	
08-08-2025	09-08-2025	281	175	53	17	14	Cloudy sky / Calm
23-08-2025	24-08-2025	293	182	57	19	15	Clear sky / Light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BESUR VILLAGE UGOA2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	2	6	10	
05-08-2025	06-08-2025	82	30	9	BDL	Partially cloudy sky / Light breeze
06-08-2025	07-08-2025	84	31	10	BDL	Partially cloudy sky / Light breeze
12-08-2025	13-08-2025	80	28	8	BDL	Rain, Partially cloudy sky / Light breeze
13-08-2025	14-08-2025	76	26	6	BDL	Rain, Partially cloudy sky / Light breeze
21-08-2025	22-08-2025	81	29	8	BDL	Rainy sky, over cast / Light breeze
22-08-2025	23-08-2025	83	33	10	BDL	Rainy sky, over cast / Light breeze
27-08-2025	28-08-2025	78	29	8	BDL	Rainy sky, Cloudy / Light breeze
28-08-2025	29-08-2025	79	27	7	BDL	Rainy sky, Cloudy / Light breeze
NAAQS, 2009		100	60	80	80	

NAND VILLAGE UGOA3						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
FROM	TO	5	2	6	10	
05-08-2025	06-08-2025	77	28	8	BDL	Partially cloudy sky / Light breeze
06-08-2025	07-08-2025	81	31	11	BDL	Partially cloudy sky / Light breeze
12-08-2025	13-08-2025	79	28	7	BDL	Rain, Partially cloudy sky / Light breeze
13-08-2025	14-08-2025	84	33	12	BDL	Rain, Partially cloudy sky / Light breeze
21-08-2025	22-08-2025	86	35	13	10	Rainy sky, over cast / Light breeze
22-08-2025	23-08-2025	78	28	7	BDL	Rainy sky, over cast / Light breeze
27-08-2025	28-08-2025	82	31	10	BDL	Rainy sky, Cloudy / Light breeze
28-08-2025	29-08-2025	85	34	12	BDL	Rainy sky, Cloudy / Light breeze
NAAQS, 2009		100	60	80	80	

POLGAON VILLAGE UGOA4						
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
05-08-2025	06-08-2025	83	32	11	BDL	Partially cloudy sky / Light breeze
06-08-2025	07-08-2025	84	35	12	BDL	Partially cloudy sky / Light breeze
12-08-2025	13-08-2025	77	26	6	BDL	Rain, Partially cloudy sky / Light breeze
13-08-2025	14-08-2025	81	30	9	BDL	Rain, Partially cloudy sky / Light breeze
21-08-2025	22-08-2025	76	27	7	BDL	Rainy sky, over cast / Light breeze
22-08-2025	23-08-2025	74	25	6	BDL	Rainy sky, over cast / Light breeze
27-08-2025	28-08-2025	82	30	9	BDL	Rainy sky, Cloudy / Light breeze
28-08-2025	29-08-2025	87	34	11	BDL	Rainy sky, Cloudy / Light breeze
NAAQS, 2009		100	60	80	80	

NEAR VIEW POINT UGOA5						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	
		5	5	2	6	10
08-08-2025	09-08-2025	277	174	50	15	13
23-08-2025	24-08-2025	269	168	46	13	11
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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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: UGOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-08-2025	7.94	26	40	BDL
24-08-2025	7.98	28	44	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): UGOW2				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
08-08-2025	7.49	16	24	BDL
24-08-2025	7.79	13	20	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



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

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

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'25	13-08-2025	58.2	50.4
AUG'25	26-08-2025	63.1	57.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'25	13-08-2025	64.4	58.4
AUG'25	26-08-2025	58.2	50.4
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

POLGAON VILLAGE: UGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'25	13-08-2025	52.8	44.0
AUG'25	26-08-2025	50.5	43.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


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ENVIRONMENTAL MONITORING REPORT

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SEPTEMBER 2025

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7182
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TEST REPORT NO.	RIN/TR/SEPT-25/11	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

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
07-09-2025	08-09-2025	252	153	48	15	13	Cloudy sky / Calm
20-09-2025	21-09-2025	261	167	54	17	14	Clear sky / Light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03-09-2025	04-09-2025	70	29	9	BDL	Rain, Partially cloudy sky / breeze
04-09-2025	05-09-2025	66	26	7	BDL	Rain, Partially cloudy sky / breeze
09-09-2025	10-09-2025	73	30	10	BDL	Rainy sky, Cloudy / breeze
10-09-2025	11-09-2025	64	25	6	BDL	Partially cloudy sky / Light breeze
16-09-2025	17-09-2025	78	32	10	BDL	Rainy sky, over cast / breeze
17-09-2025	18-09-2025	69	28	8	BDL	Rainy sky, over cast / breeze
22-09-2025	23-09-2025	79	33	11	BDL	Clody sky / Calm
23-09-2025	24-09-2025	80	35	12	BDL	Partially cloudy sky / Light breeze
26-09-2025	27-09-2025	74	31	9	BDL	Rainy sky, Cloudy / Light breeze
27-09-2025	28-09-2025	67	27	8	BDL	Partially cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
03-09-2025	04-09-2025	66	27	7	BDL	Rain, Partially cloudy sky / breeze
04-09-2025	05-09-2025	69	29	8	BDL	Rain, Partially cloudy sky / breeze
09-09-2025	10-09-2025	70	28	9	BDL	Rainy sky, Cloudy / breeze
10-09-2025	11-09-2025	77	33	10	BDL	Partially cloudy sky / Light breeze
16-09-2025	17-09-2025	67	28	7	BDL	Rainy sky, over cast / breeze
17-09-2025	18-09-2025	65	26	6	BDL	Rainy sky, over cast / breeze
22-09-2025	23-09-2025	72	30	9	BDL	Clody sky / Calm
23-09-2025	24-09-2025	79	34	11	BDL	Partially cloudy sky / Light breeze
26-09-2025	27-09-2025	68	28	8	BDL	Rainy sky, Cloudy / Light breeze
27-09-2025	28-09-2025	73	31	9	BDL	Partially cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

POLGAON VILLAGE UGOA4						
DATE(dd:mm:yy) AND TIME (12 hr format) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
		5	2	6	10	
03-09-2025	04-09-2025	63	24	6	BDL	Rain, Partially cloudy sky / breeze
04-09-2025	05-09-2025	71	31	10	BDL	Rain, Partially cloudy sky / breeze
09-09-2025	10-09-2025	68	27	7	BDL	Rainy sky, Cloudy / breeze
10-09-2025	11-09-2025	66	26	6	BDL	Partially cloudy sky / Light breeze
16-09-2025	17-09-2025	72	32	8	BDL	Rainy sky, over cast / breeze
17-09-2025	18-09-2025	74	33	10	BDL	Rainy sky, over cast / breeze
22-09-2025	23-09-2025	69	28	8	BDL	Clody sky / Calm
23-09-2025	24-09-2025	70	32	9	BDL	Partially cloudy sky / Light breeze
26-09-2025	27-09-2025	64	25	7	BDL	Rainy sky, Cloudy / Light breeze
27-09-2025	28-09-2025	77	35	11	BDL	Partially cloudy sky / Light breeze
NAAQS, 2009		100	60	80	80	

NEAR VIEW POINT UGOA5							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)				ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	SPM	PM ₁₀	PM _{2.5}	NO ₂		SO ₂
		5	5	2	6	10	
07-09-2025	08-09-2025	245	144	48	12	11	Cloudy sky / Calm
20-09-2025	21-09-2025	259	155	53	14	12	Clear sky / Light breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

J. Singh

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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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: UGOW1				
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
07-09-2025	7.82	29	36	BDL
20-09-2025	7.71	27	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

ETP(WORKSHOP): UGOW2				
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
07-09-2025	7.51	19	28	BDL
20-09-2025	7.63	16	24	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10

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NOISE LEVEL MONITORING DATA

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

PIT OFFICE: UGON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'25	14-09-2025	60.7	54.7
SEPT'25	21-09-2025	61.3	53.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

CONTRACTOR CAMP: UGON2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'25	14-09-2025	56.4	51.8
SEPT'25	21-09-2025	57.5	51.3
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

POLGAON VILLAGE: UGON3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'25	14-09-2025	50.4	43.6
SEPT'25	21-09-2025	51.4	43.2
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45


Yogesh Pidurkar
Reviewed by


Amol Kamble
Authorised by

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SURFACE WATER MONITORING REPORT

UMRER AREA

WESTERN COALFIELDS LTD.


JOB NO.4634420034



QE-JUNE 2025

Environment Laboratory
NABL Accredited vide Cert. No. TC-7102
CMPDI
REGIONAL INSTITUTE-IV, KASTURBA NAGAR,
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Surface water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JUNE-25/SW29	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		

NAME OF LOCATION:		UP STREAM OF AMB RIVER WRT MINE DISCHARGE		SAMPLING DATE:		18-04-2025	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT			
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.43			
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	3			
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	410			
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL			
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.9			
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	7.4			
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL			
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL			
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL			
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL			
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL			
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL			
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL			
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.854			
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL			
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.66			
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	91.59			
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	42			

BDL: BELOW DETECTION LIMIT


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TEST REPORT NO.	RIN/TR/JUNE-25/SW30	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		


NAME OF LOCATION:		DOWN STREAM OF AMB RIVER WRT MINE DISCHARGE	SAMPLING DATE:		18-04-2025
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.65	
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	530	
4	Oil & Greese - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.8	
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.0	
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.833	
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.78	
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	157.19	
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	48	

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TEST REPORT NO.	RIN/TR/JUNE-25/SW31	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	MORPAR UG	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		


NAME OF LOCATION:		UP STREAM OF NALA JOINING UMA RIVER		SAMPLING DATE:		21-04-2025	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT			
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.49			
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	1			
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	450			
4	Oil & Greese - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL			
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.4			
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.4			
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL			
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL			
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL			
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL			
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL			
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL			
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL			
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.850			
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL			
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.62			
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	68.79			
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	62			

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TEST REPORT NO.	RIN/TR/JUNE-25/SW32	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	MORPAR UG	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		


NAME OF LOCATION: DOWN STREAM OF NALA JOINING UMA RIVER				SAMPLING DATE: 21-04-2025	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.51	
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	470	
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.1	
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.9	
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.915	
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.74	
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	67.81	
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	64	

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TEST REPORT NO.	RIN/TR/JUNE-25/SW33	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		


NAME OF LOCATION: UP STREAM OF NALA JOINING WEINGANGA RIVER				SAMPLING DATE:	20-04-2025
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.50	
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	390	
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.8	
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	7.7	
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.849	
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.58	
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	94.13	
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	40	

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TEST REPORT NO.	RIN/TR/JUNE-25/SW34	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	GOKUL OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		

NAME OF LOCATION: DOWN STREAM OF NALA JOINING WEINGANGA RIVER				SAMPLING DATE: 20-04-2025	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.44	
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	3	
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	420	
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.6	
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.6	
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.761	
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.64	
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	88.06	
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	44	

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TEST REPORT NO.	RIN/TR/JUNE-25/SW33a	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	MAKARDHOKRA I OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		

NAME OF LOCATION: UP STREAM OF AMB RIVER w.r.t. MINE DISCHARGE				SAMPLING DATE: 19-04-2025
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.67
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	1
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	630
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.5
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.2
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.858
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.54
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	163.42
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	36.4

BDL: BELOW DETECTION LIMIT



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Surface water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JUNE-25/SW34a	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	MAKARDHOKRA I OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		

NAME OF LOCATION: DOWN STREAM OF AMB RIVER w.r.t. MINE DISCHARGE				SAMPLING DATE: 19-04-2025
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.64
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	750
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.3
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.7
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.874
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.60
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	162.68
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	36

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Surface water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JUNE-25/SW33a	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		


NAME OF LOCATION: UP STREAM OF AMB RIVER w.r.t. MINE DISCHARGE				SAMPLING DATE: 19-04-2025
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.60
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	3
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	510
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.8
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.0
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.885
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.72
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	95.85
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	32

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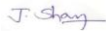
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Surface water quality monitoring data	 TC-7102
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TEST REPORT NO.	RIN/TR/JUNE-25/SW34a	DATE OF ISSUE	25-07-2025
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	DINESH OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		

NAME OF LOCATION: DOWN STREAM OF AMB RIVER w.r.t. MINE DISCHARGE				SAMPLING DATE:	19-04-2025
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.55	
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	525	
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.6	
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8.8	
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	
14	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.848	
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.80	
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	95.94	
18	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	88	

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