

WESTERN COALFIELDS LIMITED
OFFICE OF THE SUB AREA MANAGER
SASTI SUB AREA

Ref.No. WCL/BA/SAM/DSA/Civil/ 238

Date:- 30.11.2023

To

Addl. Principal Chief Conservator of Forests,
Ministry of Environment, Forests & Climate Change,
Regional Office (WCZ),
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines, Nagpur – 440001 (M.S.)

Subject :-Submission of Six monthly Environment Compliance report in respect of **DHOPTALA OC MINE**, Ballarpur Area, WCL.

Dear Sir,

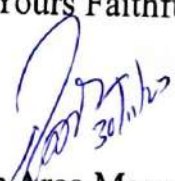
Enclosed herewith please find, Six Monthly Environment Compliance report in respect of **DHOPTALA OC Mine** for period from 01.04.2023 to 30.09.2023.

EC NO: J-11015/538/2008-IA.II(M) DATED :- 10.01.2013

Thanking you.

Encl :- Environment Compliance Report

Yours Faithfully,


Sub Area Manager,

 Sasti Sub Area

Copy to:-

- 1.Regional Officer, MPCB, Chandrapur
- 2.AGM, Ballarpur Area, WCL
- 3.GM(Environment), WCL HQ, Civil Lines, Nagpur
- 4.GM(Environment), CMPDIL RI -IV, Nagpur
- 5.ANO(Environment), Ballarpur Area, WCL

BY SPEED POST

No. J-11015/538/2008-IA.II (M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex, Lodi Road
New Delhi-110510.
Dated: 10th January, 2013

To
The General Manager (Environment),
M/s Western Coalfields Ltd.,
Coal Estate, Civil Lines,
NAGPUR - 440001.

Sub: **Dhuptala Opencast Mining Project (1.70 MTPA production capacity in an area of 1300.91 ha) of M/s Western Coalfields Ltd located near village Dhuptala, Tehsil Rajura, District Chandrapur, Maharashtra-Environmental Clearance-regarding**

Sir,

This has reference to letter No. 43011/121/2008-CPAM dated 19.12.2008 of Ministry of Coal forwarding your application for Terms of Reference (TOR) and this Ministry's letter dated 9th February 2009 granting TOR to the above mentioned Project and subsequent letter from M/s WCL bearing no. WCL/ENV/HQ/1-C/309 dated 21.07.2012 submitting therewith the final EIA/EMP for Environmental Clearance for the above mentioned subject.

2. The Ministry of Environment & Forests has considered the application. It is noted that the application is for environmental clearance for new Opencast Project named **Dhuptala Opencast in terms of 1.70 MTPA production capacity in an area of 1300.91 ha.** The proposal is for conversion of Sasti underground mine to opencast mine (OCP) and to amalgamate it with the existing Dhuptala OCP. It has been noted, as has been presented by the proponent, that:

- (i) The proposal is for conversion of Sasti underground mine to opencast mine (OCP) and to amalgamate it with the existing Dhuptala OCP. The main consumer of coal is MAHAGENCO. Of the total lease area of 1300.91 ha, 1264.31 ha consist of agricultural land (land to be acquired - 879.14 ha and 385.17 ha is under possession) and 36.60 ha Govt. land (to be acquired) and 5 ha outside ML area for colony.
- (ii) The land use pattern of the of the open cast area (total 1300.91 ha) would be 385.68ha forexcavation area, 396ha for external OB dump, 30 ha for infrastructure / approach road, 3 ha for colony, 15 ha for nala diversion, 381.23 ha for rationalization of mine boundary, 90 ha is for embankment.
- (iii) The mineable reserve is 54.60. The depth of initial mining is 25 m and final depth would be 150m. The gradient of seam is 1 in 10 to 1 in 18. The average thickness of seam is 15.68m and the grade of coal is F. The stripping ratio is 5.12 m³/t. Life of mine is 37 years.
- (iv) The coal transportation would be carried out by tarpaulin covered trucks.
- (v) The open cast mining would be by Shovel & Dumper combination. Continuous miner would be introduced in future.
- (vi) The total OB (including access trench) would be 279.50 Mm³. Of the total excavated area, 200 ha excavated area would be backfilled. The backfilling will be started from 10th year of the opening of the project. The total O.B. would be 289.16 Mm³. OB in external O.B. dump would be 203.46Mm³(including 6.0mm³OB in embankment, 34.30Mm³ OB in external dump (unconsolidated) and 163.16Mm³(hard OB) in external dump. OB in internal dumping would be 85.70mm³.

EC Dhuptala

- (vii) In the post-mining stage, the land use pattern would be that the area under plantation would be 756 ha, public use will be 38 ha, undisturbed/area will be 321.23 ha, water body in 185.68 ha area with 150m depth. At the end of mining total 756 ha area would be under plantation with 1890000 no of plants.
- (viii) River Wardha flows adjacent to the ML boundary. Dhuptala nala and a local drain are flowing through the proposed quarriable area and drain into Rajur nala and further into Wardha River. Water level in core area is 6.75 to 7.40 m.bgl (Pre-Monsoon) & 1.1m bgl & 1.50m- bgl (Post Monsoon). The total requirement of water is 460 m³/day, the industrial requirement is 260m³/day and domestic requirement is 200 m³/day and mine water discharge is 13000m³/day.
- (ix) The R&R of Sasti village involves PAFs 75 Nos. which is located in quarriable area and is proposed to be shifted to a new site. The R&R cost would be Rs 10.82 crores. The Environmental Management & Protection Cost would be Rs 30 Lakh and recurring cost Rs 51.00 Lakh/annum. The CSR cost would be Rs.6.00 lakhs / year. The capital investment for the mining would be Rs.194.1064 crores.
- (x) There is no forest land involved in the project. There is no National Parks, Wildlife Sanctuaries, Biosphere Reserves is reported to be found in the 10 km buffer zone.
- (xi) The Public Hearing was held on 07.12.2011. The proponent had assured to take necessary action on the issues raised during public hearing.

2. The Ministry of Environment & Forests hereby accords environmental clearance for the above-mentioned **Dhuptala Opencast Coal Mine Project of M/s Western Coalfield for (1.70 MTPA production capacity in an area of 1300.91 ha)** under the provisions of the Environmental Impact Assessment Notification, 2006 and subsequent amendments thereto subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- (i) The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall 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.
- (ii) There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.
- (iii) OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis.
- (iv) Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
- (v) Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- (vi) Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.

- (vii) Drills shall be wet operated.
- (viii) The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads,
- (ix) Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.
- (x) A Progressive afforestation plan shall be implemented covering an area of 630 ha at the end of mining, which includes reclaimed external OB dump (350 ha), Excavation area (150 ha), along ML boundary, along roads and infrastructure (10 ha), embankment area (50 ha) and Green belt (70 ha) 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.
- (xi) An estimated 289.16 Mm³ of OB will be generated during the entire life of the mine. Out of which 197.46 Mm³ of OB will be dumped in two external OB Dump in an earmarked area covering 396.00 ha of land. 6.00 Mm³ of OB will be dumped in embankment covering an area of 50.00 ha. The maximum height of external OB dump for hard OB 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 MOEF and its Regional Office on yearly basis.
- (xii) Of the total quarry area of 385.68 ha, the backfilled quarry area of 150 ha shall be reclaimed with plantation and a void of 185.68 ha at a depth of 150 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.
- (xiii) No groundwater shall be used for mining operations.
- (xiv) Regular monitoring of groundwater level and quality shall be carried out by establishing a network of exiting wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.
- (xv) The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (xvi) Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
- (xvii) Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.

- (xviii) Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
- (xix) For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.
- (xx) A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests within 6 months of grant of Environmental Clearance.
- (xxi) The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- (xxii) Corporate Environment Responsibility:
- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d) To have proper checks and balances, the company shall 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.
- (xxiii) Additional Conditions:-
- i. A Social Audit should be carried out annually for CSR activities. CSR activities should be carried out @ Rs 5/MT of production apart from Rs 80 Lakhs one time Capital expenditure.
 - ii. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
 - iii. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
 - iv. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
 - v. 100% backfilling should be carried out.
 - vi. The transportation of coal should be by a combination of road and rail. The road transportation of coal from the mine to railway siding will be by road and thereafter by rail to MAHAGENCO.
 - vii. Mechanically covered trucks should be introduced for coal transportation.
 - viii. Wagon loading at railway siding to be by mechanized hopper/silo loading.



ix. The proponent should implement the assurances given during the Public Hearing.

B. General Conditions

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for 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. In addition, CO and CH₄ shall also be monitored within the underground coal mine and records thereof maintained and uploaded on the company website and also submitted to MOEF, RO, Bhopal.
- iv. Fugitive dust emissions (PM₁₀ and PM_{2.5}) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.
- v. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.
- vi. 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.
- vii. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- viii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- ix. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.
- x. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof.
- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.

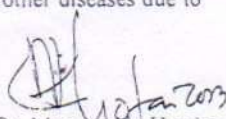
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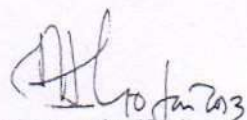
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- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.

- xiii. The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xiv. A copy of the will be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- xv. State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- xvi. The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>.
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.
5. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.


 (Dr. Manoranjan Hota)
 Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg., Madam Cama Road, MUMBAI - 400032..
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal - 462016.
4. 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 - 400002.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. Dr. R.K. Garg, Advisor, Coal India Limited, SCOPE Minar, Core-I, 4th Floor, VikasMarg, Laxminagar, New Delhi.
8. District Collector, Chandrapur, Government of Maharashtra.
9. Monitoring File 10. Guard File 11. Record File.


 (Dr. Manoranjan Hota)
 Director

Compliance of Conditions

DHOPTALA OCM(Project)

A) Specific Conditions

Sr.N	Conditions	Compliance
i)	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strenthened by stone pitching on the river front side and stablised With plantation so as to withstand the peak water flow and prevent mine inundation	Noted. Embankment has already been stabilised with plantation.
ii)	There shall be no overflow of OB in to the river and in to agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project	Noted and will be complied. Embankment between the river and project already been stabilised with plantation.
iii)	OB shall be stacked at two earmarked external OB dump site (S) only. The ultimate slope of the dump shall not exceed 28 degree.monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the ministry of environment and forest and its regional office located at bhopal on yearly basisof OB dump should be carried out so that the overall slope shall not exceed 28 degree. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shouldbe submitted to the ministry of Environment&Forests on six monthly basis	OB will be stacked at two earmarked OB dump sites during life of mine. . In addition once the dumps get inactive, biological reclamation shall also be carried. Compliance status will be submitted along with six monthly compliance reports.

Iv)	<p>Catch drain and siltation pond of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desisted and maintained properly. Garland drains (size gradient and length) and sump capacity should be designed keeping 50 % safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should be also provided adequate retention periods to allow proper settling of site materials.</p>	Noted and will be complied.
V	<p>Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on rainfall data.</p>	<p>Adequate protective measures shall be taken at the toe of the dump for checking run-off and siltation through construction of garland drains around the periphery of dumps. These drains shall be cleaned and desilted before onset of every monsoon. In addition once the dumps get inactive, biological reclamation shall also be carried which will further arrest flow of silt and sedimentation from OB dumps. Further retaining wall (Boulder Masonry) will be built to prevent silt flowing into water courses or agricultural field.</p>

Vi	Crushers of the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emission from crushing operations , conveyor system, haulage roads,transferpoints,etc.	Appropriate dust control measures shall be installed at CHP after its construction with mist spray system to check fugitive emission. Similarly along the conveyor and also at all transfer points appropriate water spraying system shall be installed.
Vii	Drills shall be wet operated.	Drills are wet operated.
viii	The project authorities' shall undertake regular repairing and tarring of roads used for mineral transportation .A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach road	04 Km of Black topped coal transportation road provided. Regular repairing will be undertaken.
Ix	Controlled blasting shall be practiced with the use of delay detonators and only during daytime .the mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented	Controlled blasting will be practised using delay detonators as per DGMS permission.
x	A progressive afforestation plan shall be implemented covering an area of 630 ha at the end of mining ,which includes reclaimed external OB dump (350 ha),excavation area (150 ha),along ML boundary ,along roads and infrastructure (10 ha) ,embankment area (150ha) and green belt(70 ha) and in township located outside the lease by planting native species in consultation with the local DFO OR Agriculture department .the density of the	Noted and will be complied

	<p>tress shall be around 2500 plants per ha.</p> <p>Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along main approach roads to the mine</p>	
xi	<p>An estimated 289.16 Mm³ of OB will be generated during the entire life of the mine.</p> <p>Out of which 197.46 Mm³ of OB will be dumped in two external OB dump in an earmarked area covering 396.00 ha of land</p> <p>6.00 Mm³ of OB will be dumped in embankment covering</p> <p>an area of 50.00ha. the maximum height of external OB dump for hard OB will not exceed 90m and that for soft Ob 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 MOEF and its Regional Office on yearly basis</p>	Noted and will be complied.
xii	<p>Of the total quarry area of 385.68 ha ,the backfilled quarry area of 150 ha shall be reclaimed with plantation and avoid of 185.68 ha at adepth of 150 m which is proposed to be converted into water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation or afforestation by planting native plant species in consultation with local DFO or agricultural department .the density of the trees shall be around 2500</p>	Noted and will be complied

	plants per ha	
xiii	No ground water shall be used for mining operations.	Noted and will be complied.
xiv	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation .the monitoring should be carried out four times in a year – pre-monsoon (April-may) monsoon (August) post monsoon (November) and winter (January) seasons and for quality in may. Data thus Collected Shall be Submitted to the Ministry of Environment & Forest and to the central pollution control Board Quarterly within one month of monitoring	The groundwater level monitoring is being carried 4 times a year in pre-monsoon (May), Monsoon (August), Post-monsoon (November) and Winter (January) seasons and for quality once in a year. The monitoring report is regularly sent to Regional Officer, CGWB Nagpur with a copy to MoEF&CC & CPCB.
xv	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby villages in case the village wells go dry due to dewatering of mine	Noted and will be complied.
xvi	Sewage treatment Plant should be installed for the colony. ETP should also be Provided for workshop and CHP wastewater.	The manpower of this project are accommodated in existing Sasti township having a fullfledged STP of 1 MLD. CHP hasnt been constructed yet. There will be no vehicle washing in the premises of the mine. So presently ETP is not required. But, there is a Project report provision for ETP, which will be constructed whenever required.

xvii	Besides carrying out regular periodic health check up of their workers ,10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment ,if any, through an specialised agency or institution within the district or state and the result reported to this ministry and to DGMS	Personal working in dusty areas are provided with dust masks. Periodical health check-up of mine workers are carried out once in 5 years with the purpose of detecting occupational diseases & hearing impairment. Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 45 years are subjected to periodic medical examination at three years interval. Area Hospital in WCL Ballarpur Area is a 25 bedded hospital. At present, since opening no such occupational diseases and or hearing impairment has been recorded.
xviii	Land oustees shall be compensated as per the norms laid out R &R policy of CIL or the national R & R policy of the state government whichever is higher	Land ousted are compensated as per provisions of Maharashtra GR 2012. R&R benefits are provided as per provisions of CIL R&R policy
xix	For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent tn the time series),and the report submitted to MOEF and its regional office at Bhopal	Digital survey of entire lease hold area/core zone using satellite remote sensing survey will be carried out once in three years.
xx	A detailed final mine closure plan along with details of corpus fund shall be submitted to the ministry of environment & forest within 6 months of grant of environmental clearance	Progressive Mine closure plan has been approved for the project.

xxi	<p>The project authorities shall in consultation with the panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.</p>	<p>It is being done in all other operating mines of WCL Ballarpur area. The same will be carried out in this project too.</p> <p>CSR Expenditure for last five years is as below:</p> <table border="1"> <thead> <tr> <th>Sr no.</th><th>Year</th><th>Expenditure (lakhs)</th></tr> </thead> <tbody> <tr> <td>1</td><td>2017-18</td><td>24.04</td></tr> <tr> <td>2</td><td>2018-19</td><td>5.0</td></tr> <tr> <td>3</td><td>2019-20</td><td>237.35</td></tr> <tr> <td>4</td><td>2020-21</td><td>47.05</td></tr> <tr> <td>5</td><td>2021-22</td><td>7.178</td></tr> <tr> <td>6</td><td>2022-23</td><td>5.103</td></tr> </tbody> </table>	Sr no.	Year	Expenditure (lakhs)	1	2017-18	24.04	2	2018-19	5.0	3	2019-20	237.35	4	2020-21	47.05	5	2021-22	7.178	6	2022-23	5.103
Sr no.	Year	Expenditure (lakhs)																					
1	2017-18	24.04																					
2	2018-19	5.0																					
3	2019-20	237.35																					
4	2020-21	47.05																					
5	2021-22	7.178																					
6	2022-23	5.103																					
xxii	<p>Corporate environment responsibility:</p> <p>a)The company shall have a well laid down environment policy approved by the board of directors</p> <p>b)The environmental policy shall prescribe for standard operating/procedures to bring focus any infringements/deviation / violation of the environmental or forest norms/conditions.</p> <p>c)the hierarchical system or administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished</p> <p>d) To have proper checks and balances ,the company shall 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 at large.</p>	<p>The Coal India Limited Corporate Environment Policy 2019 is duly followed by WCL. The hierarchical system of the company for dealing with environmental issues exist at corporate level & area level.</p>																					

xxiii	<p>Additional condition :</p> <p>i)A social audit should be carried out annually for CSR activities should be carried out @Rs 5/MT of production apart from Rs 80 lakhs one time capital expenditure</p> <p>ii)The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner</p> <p>iii) compensatory ecological & restoration of waste land,other degraded land and OB dumps in lieu of breaking open the land be carried out</p> <p>iv)The mining should be phased out in sustainable manner. No extra over burden dumps are permitted</p> <p>v)100% backfilling should be carried out</p> <p>vi) the transportation of coal should be by a combination of road and rail. The road transportation of coal from the mine to railway siding will be by road and there after by rail to MAHAGENCO.</p> <p>Vii)mechanically covered trucks should be introduced for coal transportation .</p> <p>viii) wagon loading at railway siding to be by mechanized hopper/silo loading.</p> <p>ix) The proponent should implement the assurances given during the public hearing.</p>	Noted.
B	General Condition.	
i	<p>No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.</p>	Noted.

ii	No change in the calendar plan including excavation quantum of mineral coal, and waste should be made.	Noted.
iii	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NOX monitoring location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets in consultation with the state Pollution Control Board. In addition, CO and CH ₄ shall also be monitored within the underground coal mine and records thereof maintained and uploaded on the company website and also submitted to MOEF, RO, Bhopal	Monitoring of Ambient Air quality is being done by CMPDIL, Nagpur every fortnight. AAQ monitoring stations have already been established. The stations being 1. SAM office DSA -- BSUA-1 2. Sasti Colony --- BSUA-2 3. Sasti Village ---- BSUA-3 4. Manager office DOC – BSUA-4.
iv	Fugitive dust emissions (PM ₁₀ and PM _{2.5}) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump truck (loading and unloading) point shall be provided and properly maintained.	It is being monitored by CMPDIL regularly.
v	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NOX) shall be regularly submitted to the ministry including its Regional office at Bhopal and to the state pollution control Board and the Central pollution control Board once in six months.	Data is submitted along with the Six monthly compliance reports.

vi	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.	Adequate measures are taken for control of Noise pollution. Workers engaged in blasting and drilling operations, operation of HEMM, etc are provided with ear plugs/muffs
vii	Industrial waste water (workshop and waste water from the mine) shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 the May 1993 and 31 St December 1993 or as emended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluent.	There will be no vehicle washing in the premises of the mine. So presently ETP is not required. But, there is a Project report provision for ETP, which will be constructed whenever required.
viii	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded	Complied. Only vehicles with valid PUC are being allowed
ix	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control Board and data got analysed through a laboratory recognised under EP Rules, 1986	Monitoring of Ambient Air quality is being done by CMPDIL, Nagpur every fortnight. AAQ monitoring stations have already been established. The stations being 1. SAM office DSA -- BSUA-1 2.Sasti Colony --- BSUA-2 3. Sasti Village ---- BSUA-3 4. Manager office DOC – BSUA-4.

x	<p>Personal working industry are as shall be wear protective respiratory devices and they shall be also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contraction due to exposure to dust and to take corrective measure if needed. And records maintained thereof.</p>	<p>Personal working in dusty areas are provided with dust masks. Periodical health check-up of mine workers are carried out once in 5 years with the purpose of detecting occupational diseases & hearing impairment. Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 45 years are subjected to periodic medical examination at three years interval. Area Hospital in WCL Ballarpur Area is a 25 bedded hospital.</p>
xi	<p>A Separate environmental management cell with suitable qualified personnel shall be set up under the control of a senior executive who will report directly to the head of the company.</p>	<p>There exists a three tier environment management set up in WCL as detailed below: <u>At HQ, WCL</u>- The cell is headed by GM (Env) reporting to Director Technical. The team comprises of multi-disciplinary trained executives. <u>At Area level</u> – Area General Manager heads the Environment Department assisted by GM (oprn), ANO(Environment), & 1 Assistant manager of Environment discipline. <u>AtUnitLevel</u>-Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level.</p>
xii.	<p>The funds earmarked for environmental protection measure shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.</p>	<p>The funds earmarked for environment protection measures are kept in separate account and it is not used for any other purpose. Expenditure statement is shown in every six monthly compliance report sent to MoEF&CC.</p>
xiii	<p>The Regional office of this Ministry located at Bhopal shall monitor compliance of the stipulated condition. The project authorities shall extend full cooperation to the Officer(s) of the Regional Office by furnishing the requisite data /information / monitoring</p>	<p>Noted.</p>

	reports.	
xv	State pollution control board should display a copy of the clearance letter at the Regional office, District industry centre and Collectors office / Tahsildar office for 30 days	Does not pertain to the project.
xvi	The project authorities shall advertise at least in two local newspapers widely circulated around the project one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the state pollution control board and may also be seen website of the ministry of Environment & Forest at http:// envfor. nic.in	The advertisement has been done in following newspapers. 1.Mahavidarbh, Chandrapur on 20.01.2013 2.Chandrapur Samachar on 20.01.2013
3	The ministry of any other competent authority may stipulate any further condition for environmental protection.	Noted and agreed
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986	Noted and agreed
5.	The above condition will be enforced inter-alia, under the provisions of the Water (Prevention and control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public liability insurance Act, 1991 along with their amendments and Rules.the proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination. Contamination of ground water and surface water, and occupational and other diseases due to the mining operations	Noted and agreed



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:	Dhuptala Oc Mine		
Project Address:	Village-dhuptala, Tehsil-rajura		
Town:	Dhopatala (ct)	Block:	Rajura
District:	Chandrapur	State:	Maharashtra
Pin Code:			
Communication Address:	General Manager (env), Wcl (hq), Coal Estate, Civil Lines, 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/2022/16353												
2. Application No.:		21-4/2602/MH/MIN/2020					3. Category: (GWRE 2020)		Safe					
4. Project Status:		New Project					5. NOC Type:		New					
6. Valid from:		19/09/2022					7. Valid up to:		18/09/2024					
8. Ground Water Abstraction Permitted:														
Fresh Water			Saline Water				Dewatering			Total				
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year				
0.00		0.00				2137.00		780005.00						
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	0	0	0	0	0	0	2
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps														
10. Ground Water Abstraction/Restoration Charges paid (Rs.):									3900025.00					
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.

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

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.)



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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



MAY 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

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/MAY-23/45	DATE OF ISSUE	30-06-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-05-23 TO 15-06-23

SAM OFFICE- DHOPTALA SUB AREA				BNDOA1			
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	
12-05-2023	13-05-2023	238	136	36	10	BDL	Clear Sky/Calm
22-05-2023	23-05-2023	240	142	42	11	BDL	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC			BNDOA2				
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	
09-05-2023	10-05-2023	228	126	38	12	BDL	Clear Sky/Calm
23-05-2023	24-05-2023	232	135	34	10	BDL	Clear Sky/Calm
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SASTI COLONY				BSUA3			
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	
09-05-2023	10-05-2023	136	38	28	7	BDL	Clear Sky/Calm
22-05-2023	23-05-2023	138	36	26	6	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	


MUTHRA VILLAGE BGDO2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	5	2	6	10	
03-05-2023	04-05-2023	134	34	24	6	BDL	Clear Sky/Calm
17-05-2023	18-05-2023	128	30	22	7	BDL	Clear Sky/Calm
NAAQS, 2009		-	100	60	80	80	


Analysed by

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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SAMPLE DESCRIPTION	Water sample		
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)		
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-05-23 TO 15-06-23

MINE WATER DISCHARGE: BNDOW1				
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
09-05-2023	7.72	18	28	BDL
23-05-2023	7.52	22	32	BDL
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10



Analysed by

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

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

CHP: BNDON1			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'23	05-05-2023	65.7	64.8
MAY'23	19-05-2023	64.9	63.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY: BSUN2			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'23	05-05-2023	44.4	43.3
MAY'23	19-05-2023	42.8	41.9
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



Ashwin B Wasnik
Reviewed by



Deepanshu Sahu
Authorised by

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2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
3. This report refers to the values related to the items tested.

***** End of report *****



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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

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JOB NO. 4094423068



JUNE 2023

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AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JUNE-23/45	DATE OF ISSUE	31-07-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-06-23 TO 15-07-23

SAM OFFICE- DHOPTALA SUB AREA					BNDOA1		
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	
09-06-23	10-06-23	224	132	37	13	BDL	clodysky/lightbreeze
24-06-23	25-06-23	236	138	42	11	BDL	clodysky/lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC					BNDOA2		
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in $\mu\text{g}/\text{m}^3$)					ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
10-06-23	11-06-23	244	142	38	11	BDL	clodysky/lightbreeze
25-06-23	26-06-23	238	136	34	12	BDL	clodysky/lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SASTI COLONY					BSUA3		
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	
14-06-23	15-06-23	138	38	28	7	BDL	clodysky/lightbreeze
29-06-23	30-06-23	126	32	22	8	BDL	clodysky/lightbreeze
						80	

MUTHRA VILLAGE					BGDO2		
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	
07-06-23	08-06-23	132	36	26	8	BDL	clodysky/lightbreeze
22-06-23	23-06-23	128	34	24	7	BDL	clodysky/lightbreeze
NAAQS, 2009		-	100	60	80	80	



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SAMPLE DESCRIPTION	Water sample		
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)		
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-06-23 TO 15-07-23

MINE WATER DISCHARGE: BNDOW1				
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
10-06-23	8.65	16	28	BDL
25-06-23	8.45	14	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, JUNE-2015
SAMPLING METHOD	LSOP 6

CHP: BNDON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JUNE'23	10-06-23	66.8	65.7
JUNE'23	24-06-23	66.8	65.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY: BSUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JUNE'23	10-06-23	43.7	42.6
JUNE'23	24-06-23	43.5	42.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.

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JULY 2023



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	 TC-7102
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TEST REPORT NO.	RIN/TR/JULY-23/45	DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		16-07-23 TO 14-08-23

SAM OFFICE- DHOPTALA SUB AREA				BNDOA1			
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	5	2	6	10	
13-07-2023	14-07-2023	205	112	39	11	BDL	Clody Sky /Light Breeze
24-07-2023	25-07-2023	246	145	37	12	BDL	Clody Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC				BNDOA2			
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)					ENVIRONMENT CONDITIONS (Sky/Wind)
		SPM	PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	5	2	6	10	
14-07-2023	15-07-2023	236	150	40	14	BDL	Clody Sky /Light Breeze
25-07-2023	26-07-2023	256	158	53	13	BDL	Clody Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SASTI COLONY		BSUA3				
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	2	6	10	
13-07-2023	14-7-236	45	22	8	BDL	Cloudy Sky /Light Breeze
27-07-2023	28-07-2023	56	29	10	BDL	Cloudy Sky /Light Breeze
		100	60	80	80	

MUTHRA VILLAGE BGDO2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m³)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	2	6	10	
11-07-2023	12-07-2023	43	20	8	BDL	Cloudy / Light Breeze
29-07-2023	30-07-2023	45	26	10	BDL	Cloudy Sky /Light Breeze
NAAQS, 2009		100	60	80	80	



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FUGITIVE DUST MONITORING

TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance guidance		
SAMPLE DESCRIPTION	Air sample(Fugitive)		
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:	16-07-23 TO 14-08-23	

WEIGH BRIDGE BNDOF1					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m³)		ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM ₁₀		
FROM	TO	5	5		
24-Jul-23	25-Jul-23	453	290	Cloudy Sky /Light Breeze	

CHP/Coal Mine Point BNDOF2					
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m³)		ENVIRONMENT CONDITIONS (Sky/Wind)	
		SPM	PM ₁₀		
FROM	TO	5	5		
24-Jul-23	25-Jul-23	498	310	Cloudy Sky /Light Breeze	



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SAMPLE DESCRIPTION	Water sample		
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)		
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23

MINE WATER DISCHARGE: BNDOW1				
DATE OF SAMPLE COLLECTION	ANALYSIS RESULTS			
	pH	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)
DETECTION LIMIT	2	10	4	2
13-07-2023	7.45	22	32	BDL
28-07-2023	7.65	30	44	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 PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JULY-2015
SAMPLING METHOD	LSOP 6

CHP: BNDON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	59.8	58.6
JULY'23	28-07-2023	58.7	57.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY: BSUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	14-07-2023	43.6	42.7
JULY'23	28-07-2023	42.6	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


JOB NO. 4094423068



AUGUST 2023

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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/AUG-23/45	DATE OF ISSUE	30-09-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		15-08-23 TO 15-09-23

SAM OFFICE- DHOPTALA SUB AREA				BNDOA1			
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	
04-08-2023	05-08-2023	260	149	39	12	BDL	Cloudy Sky / Light BREEZE
19-08-2023	20-08-2023	245	159	40	14	BDL	Rainy sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC				BNDOA2			
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	
04-08-2023	05-08-2023	254	152	46	14	BDL	Cloudy Sky / Light BREEZE
19-08-2023	20-08-2023	278	169	54	16	11	Cloudy Sky / Light BREEZE
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

SASTI COLONY		BSUA3				
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	
10-08-2023	11-08-2023	56	32	9	BDL	ClearSky / Light BREEZE
24-08-2023	25-08-2023	54	30	9	BDL	ClearSky / Light BREEZE
NAAQS, 2009		100	60	80	80	

MUTHRA VILLAGE BGDO2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	2	6	10	
02-08-2023	03-08-2023	49	24	8	BDL	Cloudy Sky/ Light Breeze
17-08-2023	18-08-2023	56	28	10	BDL	Cloudy Sky/ Light Breeze
NAAQS, 2009		100	60	80	80	



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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 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 15-08-23 TO 15-09-23

MINE WATER DISCHARGE: BNDOW1				
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
05-08-2023	8.05	52	72	BDL
20-08-2023	7.65	54	64	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, AUG-2015
SAMPLING METHOD	LSOP 6

CHP: BNDON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'23	05-08-2023	59.5	58.9
AUG'23	21-08-2023	58.6	57.7
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY: BSUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'23	05-08-2023	43.6	42.5
AUG'23	21-08-2023	42.5	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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ENVIRONMENTAL MONITORING REPORT

NEW DHOPTALA OC

BALLARPUR AREA

WESTERN COALFIELDS LTD.


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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report	
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TEST REPORT NO.	RIN/TR/SEPT-23/45	DATE OF ISSUE	27-10-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR		
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)		
SAMPLE DESCRIPTION	AIR SAMPLE	SAMPLING PLAN :	LQR 47
SAMPLING METHOD : LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:		15-09-23 TO 15-10-23

SAM OFFICE- DHOPTALA SUB AREA				BNDOA1			
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	
04-09-23	05-09-23	312	174	54	17	BDL	Clear Sky /Light Breeze
20-09-23	21-09-23	296	162	47	19	10	Cloudy Sky /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

MANAGER OFFICE-DHOPTALA OC			BNDOA2				
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	
04-09-23	05-09-23	275	169	42	16	BDL	Clear Sky /Light Breeze
20-09-23	21-09-23	280	149	57	14	BDL	Rainy /Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

		SASTI COLONY		BSUA3		
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	
07-09-23	08-09-23	74	30	16	BDL	Rainy Sky /Light Breeze
21-09-23	22-09-23	70	26	15	BDL	Rainy Sky /Calm
					80	

MUTHRA VILLAGE BGDO2						
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)				ENVIRONMENT CONDITIONS (Sky/Wind)
		PM ₁₀	PM _{2.5}	No ₂	So ₂	
FROM	TO	5	2	6	10	
02-09-23	03-09-23	84	30	12	BDL	Cloudy Sky /Light Breeze
18-09-23	19-09-23	79	32	12	BDL	Cloudy Sky /Light Breeze
NAAQS, 2009		100	60	80	80	



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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 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES : 15-09-23 TO 15-10-23

MINE WATER DISCHARGE: BNDOW1				
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
11-09-23	7.85	44	52	BDL
20-09-23	7.5	52	44	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, SEPT-2015
SAMPLING METHOD	LSOP 6

CHP: BNDON1		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'23	05-09-23	57.7	56.6
SEPT'23	21-09-23	57.6	56.5
NOISE POLLUTION (REGULATION AND CONTROL) RULES		75	70

SASTI COLONY: BSUN2		NOISE LEVEL IN dB(A)	
MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'23	05-09-23	42.6	41.5
SEPT'23	21-09-23	42.5	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45



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DRINKING WATER MONITORING REPORT

BALLARPUR AREA

WESTERN COALFIELDS LTD.

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QE-SEPTEMBER 2023



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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	
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TEST REPORT NO.	RIN/TR/SEPT-23/DW16	DATE OF ISSUE	27-10-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	GOURI I & II OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:		FILTER PLANT		SAMPLING DATE:		12-07-2023
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	5	15
2	Odour	IS 3025 Part-5:2014	Qualitative	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	1	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.25	6.5 to 8.5	No relaxation
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Method: 2014	4	236	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	42	250	1000
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorimetric method: 2017	0.02	BDL	0.2	1
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.66	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	454	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	43	75	200
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	31	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	BDL	0.1	0.3
15	Sulphate (as SO ₄ ²⁻) - mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	83	200	400
16	Nitrates (as NO ₃) - mg/l	APHA (23rd Edition) 4500-NO ₃ -B UV Spectrophotometric method:2017	0.5	12	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation
19	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	4	168	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT




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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	
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TEST REPORT NO.	RIN/TR/SEPT-23/DW17	DATE OF ISSUE	27-10-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	SASTI OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:		FILTER PLANT		SAMPLING DATE:		12-07-2023
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE)	PERMISSIBLE LIMIT IN THE ABSENCE OF
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	1	5	15
2	Odour	IS 3025 Part-5:2014	Qualitative	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	1	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.85	6.5 to 8.5	No relaxation
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Method: 2014	4	56	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	24	250	1000
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorimetric method: 2017	0.02	BDL	0.2	1
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.92	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	190	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	27.2	75	200
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	6.4	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	BDL	0.1	0.3
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	18	200	400
16	Nitrates (as NO ₃) - mg/l	APHA (23rd Edition) 4500-NO ₃ -B UV Spectrophotometric method:2017	0.5	4	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation
19	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	< 0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	< 0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	220	24	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	BDL	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	BDL	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT




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TEST REPORT NO.	RIN/TR/SEPT-23/DW18	DATE OF ISSUE	27-10-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	NEW DHOPTALA OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:		MANAGER OFFICE		SAMPLING DATE:		13-07-2023
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE)	PERMISSIBLE LIMIT IN THE ABSENCE OF
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	1	5	15
2	Odour	IS 3025 Part-5:2014	Qualitative	Unobjectionable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	2	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.95	6.5 to 8.5	No relaxation
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Method: 2014	4	560	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	412	250	1000
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorimetric method: 2017	0.02	0.02	0.2	1
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.36	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	1520	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	140	75	200
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	52	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	0.027	0.1	0.3
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	157	200	400
16	Nitrates (as NO ₃) - mg/l	APHA (23rd Edition) 4500-NO ₃ -B UV Spectrophotometric method:2017	0.5	4	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation
19	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	0.021	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	4	392	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT




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TEST REPORT NO.	RIN/TR/SEPT-23/DW19	DATE OF ISSUE	27-10-2023
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	BALLARPUR UG	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION: FILTER PLANT		SAMPLING DATE: 14-07-2023		IS 10500:2012		
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	5	15
2	Odour	IS 3025 Part-5:2014	Qualitative	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	2	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.60	6.5 to 8.5	No relaxation
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Method: 2014	4	256	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	78	250	1000
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorimetric method: 2017	0.02	BDL	0.2	1
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.88	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	660	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	68.2	75	200
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	30	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	BDL	0.1	0.3
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	74	200	400
16	Nitrates (as NO ₃) - mg/l	APHA (23rd Edition) 4500-NO ₃ -B UV Spectrophotometric method:2017	0.5	12	45	No relaxation
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation
19	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	0.014	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	4	236	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	0.005	BDL	0.1	0.2

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DRINKING WATER MONITORING REPORT

BALLARPUR AREA

WESTERN COALFIELDS LTD.

JOB NO.4094423068



QE-JUNE 2023

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**Environment Laboratory
CMPDI RI-IV, NAGPUR**

**Test Report
Drinking water quality monitoring data**



TEST REPORT NO.	RIN/TR/JUNE-23/DW16	DATE OF ISSUE	31-07-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	GOURI I & II OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:		FILTER PLANT			SAMPLING DATE:		06-05-23	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012			
					REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE		
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	3	5	15		
2	Odour	IS 3025 Part-5:2014	Qualitative	Unobjectionable	Agreeable	Agreeable		
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	4	1	5		
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.58	6.5 to 8.5	No relaxation		
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Metod: 2014	4	240	200	600		
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation		
7	Chlorides (as Cl ⁻)- mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	54	250	1000		
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorometric method: 2017	0.02	0.03	0.2	1		
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.439	1	1.5		
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	440	500	2000		
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	61	75	200		
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	22	30	100		
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	0.05	1.5		
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	BDL	0.1	0.3		
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	74	200	400		
16	Nitrates (as NO3) - mg/l	APHA (23rd Edition) 4500-NO3-B UV Spectrophotometric method:2017	0.5	22.28	45	No relaxation		
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation		

18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation
19	Selenium (Se) –mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	4	192	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	0.005	BDL	0.1	0.2

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TEST REPORT NO.	RIN/TR/JUNE-23/DW17	DATE OF ISSUE	31-07-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	SASTI OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION: FILTER PLANT				SAMPLING DATE: 08-05-23		
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012	
					REQUIREMENT (ACCEPTABLE)	PERMISSIBLE LIMIT IN THE ABSENCE OF
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	3	5	15
2	Odour	IS 3025 Part-5:2014	Qualitative	Unobjectionable	Agreeable	Agreeable
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	4	1	5
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.55	6.5 to 8.5	No relaxation
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Method: 2014	4	680	200	600
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	94	250	1000
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorimetric method: 2017	0.02	0.03	0.2	1
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.521	1	1.5
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	990	500	2000
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	180	75	200
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	57	30	100
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	0.032	0.05	1.5
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	0.028	0.1	0.3
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	208	200	400
16	Nitrates (as NO ₃) - mg/l	APHA (23rd Edition) 4500-NO ₃ -B UV Spectrophotometric method:2017	0.5	5.53	45	No relaxation

17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation
19	Selenium (Se) –mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	0.021	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	< 0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	< 0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	220	212	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	BDL	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	BDL	BDL	0.1	0.2

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Test Report
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TC-7102

TEST REPORT NO.	RIN/TR/JUNE-23/DW18	DATE OF ISSUE	31-07-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	NEW DHOPTALA OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:		MANAGER OFFICE			SAMPLING DATE:		12-05-23	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012			
					REQUIREMENT (ACCEPTABLE)	PERMISSIBLE LIMIT IN THE ABSENCE OF		
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	5	15		
2	Odour	IS 3025 Part-5:2014	Qualitative	Unobjectionable	Agreeable	Agreeable		
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	3	1	5		
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.34	6.5 to 8.5	No relaxation		
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Metod: 2014	4	680	200	600		
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation		
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	78	250	1000		
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorometric method: 2017	0.02	0.02	0.2	1		
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.421	1	1.5		
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	1000	500	2000		
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	188	75	200		
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	52	30	100		
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	0.039	0.05	1.5		
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	0.031	0.1	0.3		
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	197	200	400		
16	Nitrates (as NO3) - mg/l	APHA (23rd Edition) 4500-NO3-B UV Spectrophotometric method:2017	0.5	6.96	45	No relaxation		
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation		
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation		

19	Selenium (Se) –mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation
20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	0.027	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B-C Carmine Method:2017	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	4	204	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	0.005	0.008	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT




SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

- | | |
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Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Drinking water quality monitoring data	
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TEST REPORT NO.	RIN/TR/JUNE-23/DW19	DATE OF ISSUE	31-07-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	BALLARPUR	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	BALLARPUR UG	SAMPLING PLAN: LQR 47	
NO. OF PAGES	2		

NAME OF LOCATION:		FILTER PLANT			SAMPLING DATE:		12-05-23
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	IS 10500:2012		
					REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE	
1	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2	5	15	
2	Odour	IS 3025 Part-5:2014	Qualitative	Unobjectionable	Agreeable	Agreeable	
3	Turbidity (NTU)	IS 3025 Part-10 Nephelometric Method: 2012	1	3	1	5	
4	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.85	6.5 to 8.5	No relaxation	
5	Total Hardness (as CaCO ₃) - mg/l	IS 3025 Part-21 EDTA Method: 2014	4	280	200	600	
6	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	0.3	No relaxation	
7	Chlorides (as Cl ⁻) - mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	76	250	1000	
8	Residual Chlorine -mg/l	APHA, 23rd Edition 4500-G DPD Colorimetric method: 2017	0.02	0.02	0.2	1	
9	Fluoride (as F ⁻) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.392	1	1.5	
10	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	510	500	2000	
11	Calcium (as Ca) -mg/l	IS 3025 Part-40 : 2014	1.6	79	75	200	
12	Magnesium (as Mg) -mg/l	APHA (23rd Ed.) 3500 B, Calculation Method:2017	3	21	30	100	
13	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL	0.05	1.5	
14	Manganese as (Mn)- mg/l	IS 3025 Part-59, AAS Flame Method: 2006	0.02	BDL	0.1	0.3	
15	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	65	200	400	
16	Nitrates (as NO3) - mg/l	APHA (23rd Edition) 4500-NO3-B UV Spectrophotometric method:2017	0.5	6.10	45	No relaxation	
17	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	0.003	No relaxation	
18	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	0.01	No relaxation	
19	Selenium (Se) –mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.01	No relaxation	

20	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	0.05	No relaxation
21	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	5	15
22	Total Chromium -mg/l	IS 3025 Part-52 Clause 6, AAS Flame Method:2014	0.03	BDL	0.05	No relaxation
23	Boron as (B) -mg/l	APHA, 23rd Edition 4500 B- C Carmine Method:2017	0.002	BDL	0.5	1
24	Alkalinity -mg/l	IS 3025 Part-23:2014	4	220	200	600
25	Nickel-mg/l	APHA, 23rd Edition 3113 B AAS FLAME Method:2017	0.005	BDL	0.02	No relaxation
26	Aluminum (Al)-mg/l	APHA (23rd Edition) 3113B AAS-GTA Method:2017	0.005	BDL	0.1	0.2

BDL: BELOW DETECTION LIMIT



SCIENTIFIC ASSISTANT



DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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तीक्ष्णान्त्य महाविद्यालय, वरार विवेकानंद
यांची १५० वी जयंती निमित्त ग्रंथप्रदर्शन

INFLUENCE

Expenditure Invoice No. **HR/IT/NO/BLACK/457**
2012-2013/17/00/12

Name of Work: **Construction of Samal Bhawan in Nanda, Barabanki & Khatwarahash IPS Koradi**
Period of Samal: **Extended upto 30.01.2013 upto 16th**
Hrs. and the date of submission upto 31.01.2013 upto
3.00 Hrs. and opening of Cover upto 14.30 Hrs. on the
same day.

Terms and condition remain unchanged.

[illegible]

Chanel/replica Summichard

Chandrasekhar
20/01/13

Dhuplada



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000060672

Submitted Date

28-09-2023

PART A

Company Information

Company Name

M/s WCL Dhuptala OCM

Application UAN number

166169

Address

Dhuptala OCM, Rajura.

Plot no

-

Taluka

Rajura

Village

Dhuptala

Capital Investment (In lakhs)

17042.83

Scale

L.S.I

City

Chandrapur

Pincode

442905

Person Name

Ravi Mohan Krishna

Designation

Sub ARea Manager

Telephone Number

9850991440

Fax Number

07173230076

Email

envdhoptala@gmail.com

Region

SRO-Chandrapur

Industry Category

Red

Industry Type

R35 Mining and ore beneficiation

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CAC/UAN
No.MPCBCONSENT-0000166169/CR/2307001630

Consent Issue Date

2023-07-26

Consent Valid Upto

2024-03-31

Establishment Year

2021

Date of last environment statement submitted

Sep 25 2022 12:00:00:000AM

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

Product Information

Product Name

Coal

Consent Quantity

1.70

Actual Quantity

0.701

UOM

MT/A

By-product Information

By Product Name

-

Consent Quantity

0

Actual Quantity

0

UOM

MT/A

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
	0.00	700.00
Cooling	0.00	0.00
Domestic	0.00	605.00
All others	0.00	0.00
Total	0.00	1305.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
CGWA NOC	7485	832	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	0	0.364	CMD

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Explosives	0	1.704	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Deisel	0	40	KL/A

Part-C

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

[A] Water

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

[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
NA	0	0	0	0	NO STACK EMISSION

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
----------------------	--------------------------------------	-------------------------------------	-----

5.1 Used or spent oil	0	0	KL/A
5.2 Wastes or residues containing oil	0	0	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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	0	4367000	M3/Anum

2) From Pollution Control Facilities

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

3) Quantity Recycled or Re-utilized within the unit

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

Part-F

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

1) Hazardous Waste

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

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	Ton/Y	0

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
IN COMPARISION TO PREVIOUS FINANCIAL YEAR	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)
ETP	-	25
sedimentation Tank	-	15

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Trolley mounted fogging machine	-	15

Part-I

Any other particulars for improving the quality of the environment.

Particulars

-

Name & Designation

Ravi Mohan Krishna, Sub Area Manager

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000060672

Submitted On:

28-09-2023