

Compliance of Environmental Clearance conditions in respect of proposed Dinesh
(Makardhokra-III) OC Project of WCL as on 31/03/2024.

**Ref: MOEF Environment Clearance Letter No. J-11015/537/2008-IA. II (M) dated
26/05/2022 for 4.5 MTPA**

Sl. No.	Compliance Condition	Status
I.	PP shall submit Certified Compliance Report of the EC Vide No. F. No. J-11015/537/2008-IA.II (M). Dated 29 th November, 2018 granted for total 40% expansion, along with EIA/EMP report, prepared based on standard ToRs for the additional capacity of 10% on PARIVESH portal within six months of enhancement of production beyond 40%.	Complied. Certified Compliance of Environmental Clearance of Dinesh (Makardhokra-III) Open Cast project for 4.20 MTPA accorded from MOEF & CC vide letter no: F. No. EC-1739/RON/2022-NGP/10457 dated 17.10.2022 wherein no non compliance was reported. One partially complied condition was reported and ATR against the partially complied condition is submitted to IRO, MOEF & CC on 03/11/2022. (Copy enclosed as Annexure: I)
II.	In view of above (i), Ministry shall ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.	Agreed.
III.	PP shall obtain necessary prior consent for enhanced capacity from State Pollution Control Board under Air and Water Act.	Complied. Consent to Establish for 4.5 MTPA has been secured vide letter no: Letter no. Format1.0/ CAC/ UAN No. MPCB-CONSENT-0000142418/ CE/ 2211001310 dt. 16/11/2022 (Copy enclosed as Annexure-II) and Consent to operate for 4.5 MTPA has been secured vide letter no. Format1.0/ CAC/ UAN No. MPCB-CONSNET-0000142515/ CO/ 2211001308 dt 16/11/2022, which was valid up to 31/03/2024 (Copy enclosed as Annexure-III). Subsequently, an application for the renewal of CTO has been submitted to Maharashtra Pollution Control Board (MPCB) vide UAN No. MPCB-CONSENT-0000195787 on 24.01.2024 which is under process at MPCB, Mumbai.

IV.	Environmental quality parameters arising out of proposed expansion shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	<p>Agreed.</p> <p>Baseline monitoring for the environmental parameters i.e. Air, Water and Noise has been conducted for a period from Jan 2023 to April 2023.</p> <p>In addition, regular environmental monitoring of all parameters is being carried out as per the Norms through CMPDI, Nagpur. Monitoring report for the period from Oct 23 to March 24 is enclosed as Annexure-IV. It can be seen from the reports that all parameters are well within the permissible limits.</p>
V.	Hon'ble Supreme Court in an Writ Petition (s) Civil No. 114/ 2014, Common cause vs Union of India & Ors vide its judgement dated 8 th January, 2020 has directed the Union of India to impose a condition in the mining lease and similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/ project Proponent.	Grassing of Stylo Hemata species on vulnerable points of OB dump has been carried out on pilot scale basis. Stylo Hemata is a deep-rooted species of grass which is well suited for erosion control. Stylo Hemata grass seeds were spread over 1.00 ha of land. After assessing the outcome of this activity, grassing of remaining area will be taken up in the upcoming monsoon.
VI.	All other terms and conditions as prescribed in Ministry's letter dated 21.06.2011 & 29.11.2018 shall remain the same and need to be complied by PP.	<p>Noted and agreed.</p> <p>All the terms and conditions as prescribed in EC dated 21.06.2011 & 29.11.2018 will be complied.</p>

Ref: MOEF Environment Clearance Letter No. J-11015/537/2008-I A. II (M) dated 29/11/2018 for 4.20 MTPA

A. Specific Conditions:

Sl. No.	Compliance Condition	Status
i.	Project proponent shall obtain Consent to establish from the state pollution control boards for the proposed peak capacity of 4.2 MTPA prior to commencement of the increased production.	<p>Complied.</p> <p>Environmental Clearance has been secured for Expansion of Dinesh (Makardhokra III) Opencast Project for the production capacity of 4.20 MTPA in land area of 919.63 ha, vide MoEF & CC letter no. F. no. J-11015/537/2008-IA-II (M) dated 29/11/2018 (Copy enclosed as Annexure-V).</p> <p>Consent to establish along with consent to operate for 4.20 MTPA has been secured from MPCB vide letter no. Format 1.0/CAC/UAN No.0000062939/CO-2002001040 dated 25/02/2020 which was valid till 31/03/2021 (Copy enclosed as Annexure-VI).</p> <p>Subsequently, Consent to operate has been renewed vide letter no. Format 1.0/CAC/UAN No. MPCB-CONSNET-00001077252/CR/2211000598 dt 09/11/2022 (Copy enclosed as Annexure: VII).</p> <p>Environmental clearance for the increase in the production capacity from 4.2 MTPA to 4.5 MTPA (MOEF OM No. J-11015/537/2008-IA. II (M) dated 26/05/2022) has been secured as per the provisions of OM vide no F. NO.IA3-22/10/2022-IA.III dated 07/05/2022 (Copy Enclosed as Annexure-VIII).</p> <p>Subsequently, Consent to Establish for 4.5 MTPA has been secured vide letter no: Letter no. Format1.0/ CAC/ UAN No. MPCB-CONSENT-0000142418/ CE/ 2211001310 dt. 16/11/2022 (Copy enclosed as Annexure-II) and Consent to operate for 4.5 MTPA has been secured vide letter no. Format1.0/ CAC/ UAN No. MPCB- CONSNET-0000142515/ CO/ 2211001308 dt 16/11/2022, which was valid up to 31/03/2024 (Copy enclosed as Annexure-III).</p> <p>An application for the renewal of CTO has been submitted to Maharashtra Pollution Control Board (MPCB) vide UAN No. MPCB-CONSENT-0000195787 on 24.01.2024 which is under process at MPCB, Mumbai.</p>
ii.	Transportation of coal from face to coal heap shall be carried out by tippers. Further, the coal transportation from coal heap to Coal Handling Plant shall be carried out through	<p>Complied.</p> <p>Transportation of coal from face to coal heap/ stock yard and coal heap/ stock yard to Coal Handling Plant is carried out by dumpers and tippers. All the trucks leaving the mine premises are covered with tarpaulin.</p>

	covered trucks.													
iii.	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	<p>Complied.</p> <p>In order to control generation of dust at source, Mist Spray Arrangement system has been provided at Coal Handling Plant. 10 nos of fixed water sprinklers have been provided at CHP for dust suppression. 03 nos of Trolley mounted mist/fog generator has been provided at CHP.</p> <p>01 no of trolley mounted mist/fog generator and spray nozzles have been provided at crusher for dust suppression. In addition, proposal for procurement of additional 09 nos of Trolley mounted mist/fog generator is also under process.</p> <p>Construction/ Installation of conveyor belt and silo is under progress. 91% of work has been completed. All efforts are being made to complete the work in 2024.</p>												
iv.	Mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient number of water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions as presented before the Committee, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding etc.	<p>Complied.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>In addition, fixed water sprinklers & rain guns, trolley mounted mist/fog generator; Mobile Water tanker/sprinkler are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal stock yard. The Fugitive dust is also monitored regularly and is kept under control.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none"> Automatic tyre washing system is installed at main check post of Umrer Area. 2 No. of mobile water tankers of 20 KL capacity and 6 nos of 10 KL Capacity are in operation. 180 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows: <table border="1"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and near Weigh bridge of Dinesh</td> <td>12</td> </tr> <tr> <td>Coal Stock Yard</td> <td>24</td> </tr> <tr> <td>Coal transportation road</td> <td>90</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Mist Spray Arrangement system (150 nos nozzles) and 03 nos of trolley mounted mist/fog generators are provided at CHP. 	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and near Weigh bridge of Dinesh	12	Coal Stock Yard	24	Coal transportation road	90
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		<ul style="list-style-type: none"> • One no of trolley mounted mist/ fog generator and spray nozzles are provided at Crusher. • One no of truck mounted mist/ fog cannon is in operation. • In addition to this, proposal for the procurement of 09 nos of trolley mounted mist generator is under progress and the same will be procured in FY 2024-25.
v.	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 4.2 MTPA.	<p>Complied.</p> <p>Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/ORIG/2019/5548) which was valid up to 09/06/2021. Copy of NOC is enclosed as Annexure – IX.</p> <p>Renewal application for NOC is submitted to CGWA. Renewal application is approved by CGWA and the formal NOC is awaited.</p>
vi.	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	<p>Complied.</p> <p>For surveillance of occupational health among workers, Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p> <p>Moreover, for every new employee Initial Medical Examination (IME) is also carried out for both departmental and contractual employee as per the provisions of the statute.</p> <p>During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine examination of blood and urine.</p> <p>All the activities within the mine are carried out with complying safety aspect and regular awareness is created among employees regarding safety and to avoid any accidents. All the employees working in projects are provided with PPE like mask, ear muffs, helmets and protective shoes.</p> <p>Various national and International Days are observed to increase awareness and educate general population (e.g. No Tobacco Day/ No Smoking Day, World AIDS day, World Breast Feeding Week etc.).</p> <p>Regular Family Welfare (L.T.T.) Camps organized with the help of State Govt. Full Co-operation is extended to State Govt. for Pulse Polio immunization. Medical facilities are being extended to non-employees in all sorts of acute emergencies.</p> <p>The details of the set up at Umrer Area Hospital are as follows:</p> <ul style="list-style-type: none"> • Periodical Medical Examination (PME) Centres: 1 (Occupational Health Centres)

		<ul style="list-style-type: none"> • No. of Doctor engaged in Periodical Medical Examination: 3 • No. of Doctor trained in Periodical Medical Examination: 2 • No. of X-Ray machines (500 mA): 1 • No. of Audiometer units: 1 • No. of Spirometer units: 1 • No. of pathology Labs: 1 • No. of X-Ray Technicians: 1 • No. of Laboratory Technicians: 3 • No of ECG Technicians:2 <p>As seen from the above details that Area Hospital, Umrer Area, WCL is having all the infrastructural facilities to comply all the statutory obligations regarding occupational health survey of all employees.</p> <p>Details of IME/PME done in last 4 years are given below:</p> <table border="1" data-bbox="743 716 1390 930"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">No. of workers (Dept. & Cont.)</th> </tr> <tr> <th>IME</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>120</td> <td>52</td> </tr> <tr> <td>2021-22</td> <td>186</td> <td>68</td> </tr> <tr> <td>2022-23</td> <td>902</td> <td>68</td> </tr> <tr> <td>2023-24</td> <td>344</td> <td>64</td> </tr> </tbody> </table>	Year	No. of workers (Dept. & Cont.)		IME	PME	2020-21	120	52	2021-22	186	68	2022-23	902	68	2023-24	344	64								
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vii.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	<p>Complied.</p> <p>Skill development trainings are being conducted in the villages and also in the Group VTC of Umrer Area for livelihood and self-employment. Details of Skill Development programs are as follows:</p> <table border="1" data-bbox="706 1123 1425 1797"> <thead> <tr> <th>Year</th> <th>Training Programs</th> <th>No. of beneficiaries</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>Apparel designing, Beauty parlor and Electrician</td> <td>85</td> </tr> <tr> <td>2017-18</td> <td>Office automation and Data entry operator</td> <td>26</td> </tr> <tr> <td>2018-19</td> <td>Tailoring and Apparel designing</td> <td>60</td> </tr> <tr> <td>2019-20</td> <td>Beauty parlor, Tailoring and Apparel designing</td> <td>240</td> </tr> <tr> <td>2020-21</td> <td rowspan="2">Not conducted due to restrictions imposed by the Govt in Covid 19 Pandemic period</td> <td rowspan="2">Nil</td> </tr> <tr> <td>2021-22</td> </tr> <tr> <td>2022-23</td> <td>Machine operator-Plastics Processing (MO-PP) and driver</td> <td>45</td> </tr> <tr> <td>2023-24</td> <td>Assistant electrician</td> <td>04</td> </tr> </tbody> </table>	Year	Training Programs	No. of beneficiaries	2016-17	Apparel designing, Beauty parlor and Electrician	85	2017-18	Office automation and Data entry operator	26	2018-19	Tailoring and Apparel designing	60	2019-20	Beauty parlor, Tailoring and Apparel designing	240	2020-21	Not conducted due to restrictions imposed by the Govt in Covid 19 Pandemic period	Nil	2021-22	2022-23	Machine operator-Plastics Processing (MO-PP) and driver	45	2023-24	Assistant electrician	04
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viii.	To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.	<p>Complied.</p> <p>Medical camps are organized on regular basis by WCL, Umrer Area.</p> <p>Details of medical camps conducted in last 6 years are given below:</p> <table border="1" data-bbox="716 300 1416 617"> <thead> <tr> <th>Year</th> <th>No. of Medical camps</th> <th>No. of Beneficiaries</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>57</td> <td>4691</td> </tr> <tr> <td>2019-20</td> <td>34</td> <td>1878</td> </tr> <tr> <td>2020-21</td> <td>3*</td> <td>90</td> </tr> <tr> <td>2021-22</td> <td>27</td> <td>1849</td> </tr> <tr> <td>2022-23</td> <td>39</td> <td>3400</td> </tr> <tr> <td>2023-24</td> <td>45</td> <td>4743</td> </tr> </tbody> </table> <p>*Due to Covid 19 pandemic, medical camps couldn't be conducted during lockdown period. Free covid-19 testing were conducted for nearby villagers on regular basis and a blood donation camp was also conducted.</p> <p>During the Covid 19 Pandemic period, following initiatives were taken to support State Government and Nearby Villagers.</p> <table border="1" data-bbox="643 852 1487 1776"> <thead> <tr> <th colspan="3">WCL Umrer Area Initiatives during Covid-19</th> </tr> <tr> <th colspan="3">Period of support: 2020-21,2021-22</th> </tr> <tr> <th colspan="3">A) Support to State Government</th> </tr> <tr> <th>Sl. No.</th> <th>Particular</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Providing 05 nos of BiPAP machine to State administration - BiPAP- bi-level positive airway pressure - This machine is used for supporting breathing for patients whose lungs are not operating efficiently</td> <td>State Govt Hospital, Umrer and Kuhi</td> </tr> <tr> <td>2.</td> <td>1) 2 nos of oxygen concentrator machine 2) 200 PPE Kits 3) 25 hospital bed and mattress</td> <td>Chimur tehsil office for support to setting up covid care centre (CCC Facility)</td> </tr> <tr> <th colspan="3">B) Support to nearby communities</th> </tr> <tr> <th>Sl. No.</th> <th>Particular</th> <th>Count of packets</th> </tr> <tr> <td>1.</td> <td>Ration packets</td> <td>852</td> </tr> <tr> <td>2.</td> <td>Food packets</td> <td>4750</td> </tr> </tbody> </table>	Year	No. of Medical camps	No. of Beneficiaries	2018-19	57	4691	2019-20	34	1878	2020-21	3*	90	2021-22	27	1849	2022-23	39	3400	2023-24	45	4743	WCL Umrer Area Initiatives during Covid-19			Period of support: 2020-21,2021-22			A) Support to State Government			Sl. No.	Particular	Remark	1.	Providing 05 nos of BiPAP machine to State administration - BiPAP- bi-level positive airway pressure - This machine is used for supporting breathing for patients whose lungs are not operating efficiently	State Govt Hospital, Umrer and Kuhi	2.	1) 2 nos of oxygen concentrator machine 2) 200 PPE Kits 3) 25 hospital bed and mattress	Chimur tehsil office for support to setting up covid care centre (CCC Facility)	B) Support to nearby communities			Sl. No.	Particular	Count of packets	1.	Ration packets	852	2.	Food packets	4750
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C) Support to ZP schools

Sl. No.	Particular	Amount
1.	No of schools supported	11
2.	Mask and sanitizer to students	1040
3.	Pulse oximeter, Thermal Gun, Soap, Sodium Hypochlorite, Sanitizer bottle etc	Provided to administration for maintaining covid-19 protocols

D) Covid-19 testing and vaccination

Sl. No.	Particular	Nos.
1.	Testing for covid-19 at WCL premises	3317
2.	Vaccination administered at WCL premises	1671

Details of Medical camp conducted during the FY 23-24 is given below:

Sl. No.	Date	Name of Camp	No. of Beneficiaries
1	07/04/23	GHCC at Hewati Village	137
2	11/04/23	GHCC at Shirpur village	102
3	20/04/23	GHCC at Piraya village	98
4	27/04/23	GHCC at Dahegaon village	80
5	03/05/23	GHCC at Khadsangi village	67
6	11/05/23	GHCC at Khursapar village	110
7	20/05/23	GHCC at Sirpur village	65
8	30/05/23	GHCC at Dahegaon village	62
9	09/06/23	GHCC at Podegaon village	57
10	16/06/23	GHCC at Kanwa village	64
11	21/06/23	GHCC at Piraya village	70
12	27/06/23	GHCC at Anganwadi Ghoturli village	38
13	07/07/23	GHCC at Sayki village	125
14	14/07/23	GHCC at Piraya village	75
15	24/07/23	GHCC at Shirpur village	145
16	28/07/23	GHCC at Podgaon village	85
17	02/08/23	GHCC at Davha village	102
18	07/08/23	GHCC at Kanwa village	70

19	25/08/23	GHCC at Piraya village	84
20	29/08/23	GHCC at Sayaki village	90
21	07/09/23	GHCC at Bhagwanpur village	138
22	11/09/23	Health Check Up Camp at Udasa Ashram Shala student	400
23	13/09/23	Eye Check Up Camp by Anatwar Hospital at Ghoturli village	70
24	20/09/23	GHCC at MKD School	160
25	29/09/23	Eye Check Up Camp by Sarakshi Hospital	64
26	17/10/23	GHCC at Mangrud Ashram Shala	134
27	26/10/23	GHCC at Piraya village	130
28	30/10/23	GHCC at Kanwa village	101
29	09/11/23	GHCC at Podgaon village	63
30	28/11/23	GHCC at Sirpur village	101
31	30/11/23	GHCC at Piraya village	135
32	06/12/23	GHCC at Sayaki village	85
33	08/12/23	Free check-up camp for cancer detection by HCG Nagpur	67
34	13/12/23	GHCC at Zilla Parishad waigaon Ghoturli village	96
35	19/12/23	Osteoporosis Awareness & Check-Up Camp by Choudhari Hospital Nagpur	109
36	20/12/23	GHCC at Udasa Ashram shala	190
37	08/01/24	GHCC at Piraya village	62
38	16/01/24	GHCC at Sirpur village	150
39	19/01/24	GHCC at Khandazari village	61
40	02/02/24	GHCC at Kanwa village	130
41	05/02/24	GHCC at Sayki village	110
42	09/02/24	GHCC at Bhagwanpur village	107
43	28/02/24	GHCC at Hewti Village	112
44	14/03/24	GHCC at Piraya village	122
45	22/03/24	GHCC at Hewti Village	120
		Total	4743

		OPD facility is also provided for surrounding villages. No. of beneficiaries are mentioned below:														
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ix.	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.	<p>Being complied.</p> <p>The mine has started its operation on 25/11/2016. Till date, 45,000 nos of saplings have been planted on plain land and OB dump. Details are given below:</p> <table border="1"> <thead> <tr> <th>Year of plantation</th> <th>No of plants</th> <th>Area in Ha</th> <th>Plantation site</th> </tr> </thead> <tbody> <tr> <td>2022-23</td> <td>15,000</td> <td>6.00</td> <td>Plain land</td> </tr> <tr> <td>2023-24</td> <td>25,000</td> <td>10.00</td> <td>Plain land</td> </tr> <tr> <td></td> <td>5,000</td> <td>2.00</td> <td>OB dump</td> </tr> <tr> <td>Total</td> <td>45,000</td> <td>18.00</td> <td></td> </tr> </tbody> </table> <p>Plantation work is carried out through Madhya Pradesh Van Vikas Nigam. The species planted are Amla, Jamun, Neem, Kala Siras, Safad Sirus, Karanj, Casiya, Bamboo, Khamer, Amrood etc.</p> <p>Further on, as proposed in the EMP, plantation will be done on external OB clumps, backfilled area, along road sides, vacant land and township by planting native species in consultation with State Forest Department. Density of the plants will be maintained at 2500 plants per ha.</p> <p>Plantation programme for the next 04 years is given below:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Location</th> <th>No of Plants</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>2024-25</td> <td>OB Dump No.03</td> <td>25,000</td> <td>10.00</td> </tr> <tr> <td rowspan="3">2025-26</td> <td>OB Dump No.03</td> <td>37,500</td> <td>15.00</td> </tr> <tr> <td>OB Dump No.04</td> <td>75,000</td> <td>30.00</td> </tr> <tr> <td>Plain Land</td> <td>10,000</td> <td>04.00</td> </tr> <tr> <td rowspan="3">2026-27</td> <td>OB Dump No.03</td> <td>37,500</td> <td>15.00</td> </tr> <tr> <td>OB Dump No.04</td> <td>75,000</td> <td>30.00</td> </tr> <tr> <td>Plain Land</td> <td>10,000</td> <td>04.00</td> </tr> <tr> <td>2027-28</td> <td>OB Dump No.03</td> <td>50,000</td> <td>20.00</td> </tr> </tbody> </table>	Year of plantation	No of plants	Area in Ha	Plantation site	2022-23	15,000	6.00	Plain land	2023-24	25,000	10.00	Plain land		5,000	2.00	OB dump	Total	45,000	18.00		Year	Location	No of Plants	Area in Ha	2024-25	OB Dump No.03	25,000	10.00	2025-26	OB Dump No.03	37,500	15.00	OB Dump No.04	75,000	30.00	Plain Land	10,000	04.00	2026-27	OB Dump No.03	37,500	15.00	OB Dump No.04	75,000	30.00	Plain Land	10,000	04.00	2027-28	OB Dump No.03	50,000	20.00
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x.	Efforts shall be made for utilizing alternate source of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	<p>Being complied.</p> <p>Mine discharge water is the primary source of water for all the industrial purposes. Mine water is collected in sump of capacity 163.62 Million gallons in the quarry area of mine. This sump allows settlement of suspended particles present in water. The supernatant from these sumps is then pumped out on surface and fed into the surface sedimentation tank. This mine water is used for industrial purposes such as dust suppression, fire fighting and plantation etc.</p> <p>Domestic requirement of water is fulfilled by 02 nos. of tube well in Umrer Colony.</p> <p>As such mine water and water from bore well is being used for industrial and domestic purpose and thus minimizing the dependability on a single source.</p>			
xi.	A third-party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI/NEERI/IIT or any other expert agency identified by the Ministry.	<p>Complied.</p> <p>Third party assessment of EC compliance will be carried out once in three years.</p> <p>The third part assessment of EC compliance has been undertaken through CSIR-NEERI (Expert Agency identified by Ministry). Inspection was carried out on 18/11/2021 in which no non compliances were observed.</p>			

B. General Conditions:

Sl. No	Compliance Condition	Status
(a)	Mining	
i.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there– under as applicable.	<p>Agreed.</p> <p>Mining is being carried out as per the provisions of the Mines Act 1952 and subordinate legislations made there– under as applicable.</p>
ii.	No change in mining method, Calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change.	<p>Agreed.</p> <p>Method of mining is opencast with shovel-dumper combination. There has been no change in scope of work and production programme beyond EC/ approved Mining Plan.</p> <p>No change in technology, mining method, calendar programme and scope of working will be made without prior</p>

		approval of the MOEF&CC.
iii.	Mining shall be carried out as per the approved mining plan including mine closure plan, abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Agreed. Mining is being carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).
iv.	No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian forest act, 1927.	Agreed. There is no forest land in the mine lease area (919.63 Ha) of Project. In future also, no mining activity will be carried out in forest land without obtaining Forestry Clearance.
(b)	Land Reclamation and Water Conservation	
i.	Digital survey of entire lease hold area/ core zone using Satellite Remote sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office (RO).	Complied. Digital processing of the entire lease area using Remote sensing technique is done every year by CMPDIL. Reports of which are available on WCL website. The same is submitted to Ministry of Environment, Forest and Climate Change/ Regional Office on regular basis. Land Restoration / Reclamation monitoring report of Dinesh OC mine based on satellite data for the year 2023 is enclosed as Annexure –X.
ii.	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of any river/ rivulet/ pond/lake etc., shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned	Complied. There is only one seasonal nallah (Amb Nallah) flowing through the mine lease. The surface drainage plan considering the presence of this nallah is prepared and implemented. The embankment is constructed along the Amb nallah (at the south side of nallah). The height of the embankment provided to protect the mine along its boundary has been kept 6.00 meters above the HFL of the nallah. The Top width of embankment has been kept 34.00 m which is sufficient to protect the mine from peak flow of the nallah. Mining is being carried out as per the approved Mining

	<p>State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS.</p>	<p>Plan/EIA/EMP report and all precautions are being taken for avoiding any adverse impact on surface drainage as envisaged in the approved reports.</p>																					
<p>iii.</p>	<p>The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40m, adequate engineering interventions shall be provided for sustenance of adequate life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purpose and shall be handed over to the respective state government as specified in the guidelines for preparation of mine closure plan issued by the ministry of coal dated 27th august, 2009 and subsequent amendments.</p>	<p>Being Complied.</p> <p>Final mine void depth is 144.50 m (after Phase-II), as per approved Mining plan. As it exceeds more than 40 m, suitable engineering interventions will be provided for sustenance.</p> <p>The backfilled quarry will be reclaimed with plantation as per EMP in consultation with State Forest Department.</p> <p>Density of the plants will be maintained at 2500 plants per ha. The proposed water body of 152 ha of decoaled void will be gently sloped and upper benches shall be terraced and stabilized with plantation.</p> <p>Post Mining activities will be taken up according to the approved Mine Plan/EIA/EMP. The mine closure plan is the integral part of approved mining plan/EIA/EMP as per the guidelines issued by MOC and being followed up.</p>																					
<p>iv.</p>	<p>The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/ “post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest and climate change/ Regional Office on six monthly basis.</p>	<p>Being Complied.</p> <p>All the mining work is being conducted as per Approved Mining Plan and shall be continued.</p> <p>Progressive compliance status of land use pattern is submitted regularly to the Ministry of Environment, Forest and climate change/ Regional Office along with Six Monthly compliance Report.</p> <p>Land Use Plan During Mining (as on 31/03/2024)</p> <table border="1" data-bbox="808 1535 1448 1845"> <thead> <tr> <th>Sl No.</th> <th>Particulars</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quarry Area (Excavation area)</td> <td>203.335</td> </tr> <tr> <td>2</td> <td>External OB dumps</td> <td>262.402</td> </tr> <tr> <td>3</td> <td>Rationalization/ Blasting zone</td> <td>368.155</td> </tr> <tr> <td>4</td> <td>Infrastructure & Roads</td> <td>7.77</td> </tr> <tr> <td>5</td> <td>Other area</td> <td>77.986</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>919.63</td> </tr> </tbody> </table>	Sl No.	Particulars	Area in Ha	1	Quarry Area (Excavation area)	203.335	2	External OB dumps	262.402	3	Rationalization/ Blasting zone	368.155	4	Infrastructure & Roads	7.77	5	Other area	77.986	Total		919.63
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v.	<p>The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off.</p> <p>The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office on six monthly basis.</p>	<p>Being complied.</p> <p>The mine has started its operation on 25/11/2016. Dumping of top soil is in progress at earmarked site in the western side of the quarry with proper slope. Till 31/03/2024, 9.51 Mm³ of Top soil has been removed. Out of this 9.51 Mm³ of top soil, 6.86 Mm³ of top soil has been stacked at earmarked site and rehandling of this top soil has been started in 2023-24.</p> <p>This soil will be used as early as possible for reclamation and development of green belt.</p> <p>OB generated is stored in external OB dump no. 1 and 2 of slope not exceeding 28° in ML area. All the dumps are active.</p> <p>The reclamation of dump sites with plantation using native species will start only after the dumps get in-active, as directed the reclamation will be continued till the same are self-sustaining and report will be submitted accordingly.</p> <p>The maximum height, final slope with benches etc will be reached in due course of operation. As planned, the backfilling will start and OB dump would ultimately get merged with the backfilling area. As stated earlier, the biological reclamation will start only after the dumps attain the full height & technically reclaimed.</p> <p>Till 31/03/2024, 107.019 Mm³ of OB has been excavated. 78.426 Mm³ of excavated OB has been stacked at external OB dumps.</p> <p>Details of external OB dump is given below:</p> <table border="1" data-bbox="781 1346 1479 1608"> <thead> <tr> <th>Dump</th> <th>Area in Ha</th> <th>Height of Dump (m)</th> </tr> </thead> <tbody> <tr> <td>External OB (Dump No. 2)</td> <td>118.189</td> <td>45-65</td> </tr> <tr> <td>External OB (Dump No. 3)</td> <td>92.327</td> <td>50-75</td> </tr> </tbody> </table> <p>Till 31/03/2024, 28.593 Mm³ of the excavated OB has been backfilled in decoaled area of Mine.</p>	Dump	Area in Ha	Height of Dump (m)	External OB (Dump No. 2)	118.189	45-65	External OB (Dump No. 3)	92.327	50-75
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(c)	Emissions, Effluents, and Waste Disposal										

<p>i.</p>	<p>Transporting of coal, to the extent permitted by road, shall be carried out by covered trucks/ conveyors.</p> <p>Effective control measures such as regular water/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values PM₁₀/PM_{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/ State Pollution Control Board.</p>	<p>Being complied.</p> <p>All the vehicles transporting coal are loaded within permissible limit and trucks leaving the mine premises are covered with tarpaulin. It is ensured by using CCTV cameras. At present four nos of CCTV Cameras are installed at main check post of Umrer Area. CCTV footages are regularly monitored. Security guards are also deployed at main check post to check whether all the trucks leaving the mine premises are properly covered or not.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>In addition to fixed water sprinklers & rain guns, Trolley mounted fogging cannons & Mobile Water tankers / Sprinklers are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal stock yard. The Fugitive dust is also monitored regularly and is kept under control.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none"> • Automatic tyre washing system has been installed at main check post of Umrer Area. • 2 No. of mobile water tankers of 20 KL capacity and 6 nos of 10 KL Capacity are in operation. • 180 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows: <table border="1" data-bbox="795 1302 1461 1596"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and near Weigh bridge of Dinesh</td> <td>12</td> </tr> <tr> <td>Coal Stock Yard</td> <td>24</td> </tr> <tr> <td>Coal transportation road</td> <td>90</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Mist Spray Arrangement system (150 nos nozzles) and 03 nos of trolley mounted mist/fog generators are provided at CHP. • One no of trolley mounted mist/ fog generator and spray nozzles are provided at Crusher. 	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and near Weigh bridge of Dinesh	12	Coal Stock Yard	24	Coal transportation road	90
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ii.	Greenbelt, consisting of 3-tier plantation, of width not less than 7.5m, shall be developed all along the mine lease area in a phased manner. The green belt comprising of a mix of native species shall be developed all along the major approach / coal transportation roads.	<p>Being Complied.</p> <p>The mine has started its operation on 25/11/2016. Till date, 45,000 nos of saplings have been planted on plain land and OB dump. Details are given below:</p> <table border="1"> <thead> <tr> <th>Year of plantation</th> <th>No of plants</th> <th>Area in Ha</th> <th>Plantation site</th> </tr> </thead> <tbody> <tr> <td>2022-23</td> <td>15,000</td> <td>6.00</td> <td>Plain land along the boundary</td> </tr> <tr> <td rowspan="2">2023-24</td> <td>25,000</td> <td>10.00</td> <td>Plain land along the boundary</td> </tr> <tr> <td>5,000</td> <td>2.00</td> <td>OB dump</td> </tr> <tr> <td>Total</td> <td>45,000</td> <td>18.00</td> <td></td> </tr> </tbody> </table> <p>Plantation work is carried out through Madhya Pradesh Van Vikas Nigam. The species planted are Amla, Jamun, Neem, Kala Siras, Safad Sirus, Karanj, Casiya, Bamboo, Khamer, Amrood etc.</p> <p>Density of the plants will be maintained at 2500 plants per ha.</p> <p>Plantation programme for the next 04 years is given below:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Location</th> <th>No of Plants</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>2024-25</td> <td>OB Dump No.03</td> <td>25,000</td> <td>10.00</td> </tr> <tr> <td rowspan="3">2025-26</td> <td>OB Dump No.03</td> <td>37,500</td> <td>15.00</td> </tr> <tr> <td>OB Dump No.04</td> <td>75,000</td> <td>30.00</td> </tr> <tr> <td>Plain Land</td> <td>10,000</td> <td>04.00</td> </tr> <tr> <td rowspan="3">2026-27</td> <td>OB Dump No.03</td> <td>37,500</td> <td>15.00</td> </tr> <tr> <td>OB Dump No.04</td> <td>75,000</td> <td>30.00</td> </tr> <tr> <td>Plain Land</td> <td>10,000</td> <td>04.00</td> </tr> <tr> <td rowspan="3">2027-28</td> <td>OB Dump No.03</td> <td>50,000</td> <td>20.00</td> </tr> <tr> <td>OB Dump No.04</td> <td>1,00,000</td> <td>40.00</td> </tr> <tr> <td>Plain Land</td> <td>15,000</td> <td>06.00</td> </tr> </tbody> </table>	Year of plantation	No of plants	Area in Ha	Plantation site	2022-23	15,000	6.00	Plain land along the boundary	2023-24	25,000	10.00	Plain land along the boundary	5,000	2.00	OB dump	Total	45,000	18.00		Year	Location	No of Plants	Area in Ha	2024-25	OB Dump No.03	25,000	10.00	2025-26	OB Dump No.03	37,500	15.00	OB Dump No.04	75,000	30.00	Plain Land	10,000	04.00	2026-27	OB Dump No.03	37,500	15.00	OB Dump No.04	75,000	30.00	Plain Land	10,000	04.00	2027-28	OB Dump No.03	50,000	20.00	OB Dump No.04	1,00,000	40.00	Plain Land	15,000	06.00
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	<p>route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a “bypass” road, it should be constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</p>	<p>The transportation of coal is carried out as per the provisions and route proposed in the approved mining plan.</p> <p>The coal transportation road is properly maintained and it is directly connected to State Highways (BT road).</p> <p>There is no village in the mine lease area and coal is not transported through any village/ habitation. Hence, there is no need for bypass road.</p>										
iv.	<p>Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining “PUC” certificate from the authorized pollution testing centres.</p>	<p>Being complied.</p> <p>As per the present practice, the PUC certificate is obtained for all vehicles and the same will be continued. Copy of PUC certificates is enclosed as Annexure-XI for reference.</p>										
v.	<p>Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provide with dust suppression system. Belt- conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust.</p> <p>Drills shall be wet operated or fitted with dust extractors.</p>	<p>Complied.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>Side cladding is provided along belt conveyors. Drills have wet drilling arrangement.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none"> • Automatic tyre washing system has been installed at main check post of Umrer Area. • 2 No. of mobile water tankers of 20 KL capacity and 6 nos of 10 KL Capacity are in operation. • 180 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows: <table border="1" data-bbox="797 1608 1463 1860"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and near Weigh bridge of Dinesh</td> <td>12</td> </tr> <tr> <td>Coal Stock Yard</td> <td>24</td> </tr> </tbody> </table>	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and near Weigh bridge of Dinesh	12	Coal Stock Yard	24
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vi.	<p>Coal Handling Plant shall be operated with effective measures viz. bag filters/ water or mist sprinkling system etc. to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.</p>	<p>Being complied.</p> <p>Coal handling Plant is being maintained with mist type water sprinkling arrangement in order to arrest/check fugitive emissions at source.</p> <p>In addition to the mist spraying arrangement, fixed type water sprinkling arrangement and trolley mounted mist/fog generators has been provided.</p> <p>180 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows:</p> <table border="1" data-bbox="797 1102 1463 1396"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and near Weigh bridge of Dinesh</td> <td>12</td> </tr> <tr> <td>Coal Stock Yard</td> <td>24</td> </tr> <tr> <td>Coal transportation road</td> <td>90</td> </tr> </tbody> </table> <p>Air quality parameters are being monitored by CMPDIL on fortnightly basis. Maximum and minimum concentration of parameters (SPM, PM₁₀, NO_x, SO_x and PM_{2.5}) as per Environmental monitoring report (from Oct 23 to March 24) is as follows:</p> <table border="1" data-bbox="773 1648 1487 1827"> <thead> <tr> <th rowspan="2">Parameters</th> <th rowspan="2">Core Zone/ Buffer Zone</th> <th rowspan="2">Permissible limit</th> <th colspan="2">Concentration (24 hourly values in µg/m³)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>SPM</td> <td>Core</td> <td>600</td> <td>235</td> <td>280</td> </tr> </tbody> </table>	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and near Weigh bridge of Dinesh	12	Coal Stock Yard	24	Coal transportation road	90	Parameters	Core Zone/ Buffer Zone	Permissible limit	Concentration (24 hourly values in µg/m ³)		Min	Max	SPM	Core	600	235	280
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vii.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for construction and augmentation of ground water resources.	<p>Being complied.</p> <p>Ground water is not used for any mining operations.</p> <p>Rainwater harvesting measures implemented are listed below:</p> <ul style="list-style-type: none"> The Mine sump (Capacity: 163.62 Million gallons) is unlined and have potential for augmentation of ground water resources. A Check Dam has also been provided at Lal Puliya Railway Bridge. Dimensions (Length-55 m, height-1.2 m from river bed) <table border="1"> <thead> <tr> <th>Location</th> <th>Storage capacity / Volume (m³) (a)</th> <th>Number of fillings (b)</th> <th>Estimated yearly recharge (a*b*0.75) (m³/year)</th> </tr> </thead> <tbody> <tr> <td>Check Dam on Amb river near Umrer OC Expn. Mine</td> <td>31350</td> <td>3</td> <td>70537</td> </tr> </tbody> </table> <p>Note: Annual Recharge due to Check Dam = 75% of gross storage (in m³/yr)</p> <p>Where gross storage = Storage capacity x no. of fillings</p> <ul style="list-style-type: none"> Roof top Rainwater harvesting system has been provided at AGM Office 	Location	Storage capacity / Volume (m ³) (a)	Number of fillings (b)	Estimated yearly recharge (a*b*0.75) (m ³ /year)	Check Dam on Amb river near Umrer OC Expn. Mine	31350	3	70537																												
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viii.	<p data-bbox="289 779 742 1852">Catch/ garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly desilted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression measures and green belt development. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and</p>	<p data-bbox="760 779 971 814">Being Complied.</p> <p data-bbox="760 842 1503 911">To arrest the flow of silt and sediments, following actions are taken:</p> <ul style="list-style-type: none"> <li data-bbox="760 947 1503 1056">i) To arrest flow of silt & sediment during monsoon, catch drain of size (top width 3 m, bottom width 2 m & height 2 m) has been constructed. <li data-bbox="760 1092 1503 1241">ii) The silt and sediment from OB benches are guided through cross drainage into the sump (80m x 150m x 2m) having capacity of 24000 m³ to allow settlement of suspended particles. <li data-bbox="760 1276 1503 1346">iii) The drain and sumps are desilted before onset of every monsoon. <p data-bbox="760 1381 1503 1480">Sump capacity is adequate to allow proper settlement of particles. Water collected in the sump is utilised for dust suppression measures.</p> <p data-bbox="760 1516 1503 1625">The catch drains at the toe of the dump provide all protection measures against flow of silt and sediments. As such no separate construction of toe wall is required.</p>										

	adjacent field/habitation/water bodies.																								
ix.	Industrial waste water from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.	<p>Being complied.</p> <p>The effluent from workshop is treated in ETP provided with oil & grease trap (capacity: 150 KLD). Treated effluent is recycled and used in workshop for washing of HEMM.</p> <p>The quality water is monitored fortnightly and adequate measures will be taken (if need arises) to maintain the quality of water within permissible limits.</p> <p>Maximum and minimum concentration of Water parameters as per Environmental monitoring report (from Oct 2023 to Mar 2024) is as follows:</p> <table border="1" data-bbox="859 709 1398 953"> <thead> <tr> <th rowspan="2">Parameters</th> <th colspan="3">Concentration (mg/L)</th> </tr> <tr> <th>Permissible Limit</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 to 9.0</td> <td></td> <td></td> </tr> <tr> <td>TSS</td> <td>100</td> <td></td> <td></td> </tr> <tr> <td>COD</td> <td>250</td> <td></td> <td></td> </tr> <tr> <td>O & G</td> <td>10</td> <td colspan="2">BDL</td> </tr> </tbody> </table> <p>The Monitoring Report in respect of Makardhokra – III OCP is enclosed as Annexure-IV.</p> <p>The domestic sewage disposal arrangement of 0.3 MLD capacity using Phytoid technology has been provided in combined township of Umrer area where employees of Makardhokra-III OC project reside.</p>	Parameters	Concentration (mg/L)			Permissible Limit	Min	Max	pH	5.5 to 9.0			TSS	100			COD	250			O & G	10	BDL	
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x.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	<p>Being complied.</p> <p>Groundwater recharge measures taken up are listed below:</p> <ul style="list-style-type: none"> • The Mine sump (Capacity-163.62 Million gallons) is unlined and have potential for augmentation of ground water resources. • A Check Dam has also been provided at Lal Puliya Railway Bridge. Dimensions (Length-55 m, height-1.2 m from river bed) <p>Presently, no water shortage has been observed in the nearby villages. However, if there is any water shortage in future it will be supplemented by necessary arrangement based on the requisition of the villagers</p>																							

(d)	Illumination, Noise & Vibration Control																			
i.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & RO on six-monthly basis.	<p>Complied.</p> <p>Adequate lighting arrangements are provided in mine premises to meet DGMS standards. These are monitored regularly by lux meter. Copy of illumination study report is enclosed as Annexure-XII</p>																		
ii.	Adequate measures shall be taken for control of noise levels below 85 Db (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/ muffs in conformity with the prescribed norms/ guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	<p>Complied.</p> <p>Noise pollution control measures are being implemented. Personnel working in operating mine are being provided with PPE like Ear plugs/ muffs.</p> <p>Numbers of Ear Plugs issued in last 4 years are given below:</p> <table border="1" data-bbox="792 726 1463 1005"> <thead> <tr> <th>Sl.No.</th> <th>Year</th> <th>Nos of ear plugs provided</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2019-20</td> <td>154</td> </tr> <tr> <td>2</td> <td>2020-21</td> <td>59</td> </tr> <tr> <td>3</td> <td>2021-22</td> <td>45</td> </tr> <tr> <td>4</td> <td>2022-23</td> <td>15</td> </tr> <tr> <td>5</td> <td>2023-24</td> <td>39</td> </tr> </tbody> </table> <p>Regular awareness programmes are also undertaken at VTC.</p>	Sl.No.	Year	Nos of ear plugs provided	1	2019-20	154	2	2020-21	59	3	2021-22	45	4	2022-23	15	5	2023-24	39
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iii.	Controlled blasting techniques shall be practiced in order to Mitigative ground vibrations and fly rocks as per the guidelines prescribed by the DGMS.	<p>Being complied.</p> <p>Controlled blasting techniques with use of delay detonators are being practiced to control the ground vibration and to arrest the fly rocks. Controlled blasting technique as permitted by DGMS is adapted.</p> <p>Survey is being carried out in nearby village by project authorities. Copy enclosed as annexure-XIII.</p>																		
iv.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises and report in this regard shall be submitted to this Ministry/ RO on six-monthly basis.	<p>Being complied.</p> <p>Noise level monitoring station is established near Pit Office. Day time & night time noise level data are monitored fortnightly as per Env. (protection) Amendment Rule, 2000. Report of the same is being submitted to MoEF & CC on six-monthly basis.</p> <p>Noise level, as per Environmental monitoring report (from Oct 23 to Mar 24) is as follows:</p>																		

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(e)	Occupational Health & Safety	
i.	<p>The project Proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides regular periodic health check-up, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any.</p>	<p>Being complied.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p> <p>During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine examination of blood and urine.</p> <p>In case some abnormality is detected during the course of the above examination further investigations are carried out as required.</p> <p>When a person is diagnosed with a certain disease, he/ she is referred to the concerned specialist for confirmation and initiation of treatment.</p> <p>If, on radiological examination, a person is suspected to be having Coal Worker’s Pneumoconiosis he is referred to WCL Pneumoconiosis Board. There is a team of specialist trained in Pneumoconiosis, examine him and comes to a conclusion as to whether he suffers from Coal Worker’s Pneumoconiosis or not, compensation to be paid and his fitness for continuing his job. In suitable cases, as per the recommendation of the Apex Medical Board, there is provision for change of job.</p> <p>Various national and International Days are observed to increase awareness and educate general population (e.g. No Tobacco Day/ No Smoking Day, World AIDS day, World</p>

		<p>Breast Feeding Week etc.).</p> <p>Regular Family Welfare (L.T.T.) Camps organized with the help of State Govt. Full Co-operation is extended to State Govt. for Pulse Polio immunization. Medical facilities are being extended to non-employees in all sorts of acute emergencies.</p> <p>The details of the set up at Umrer Area Hospital are as follows:</p> <ul style="list-style-type: none"> • Periodical Medical Examination (PME) Centres: 1 (Occupational Health Centres) • No. of Doctor engaged in Periodical Medical Examination: 3 • No. of Doctor trained in Periodical Medical Examination: 2 • No. of X-Ray machines (500 mA): 1 • No. of Audiometer units: 1 • No. of Spirometer units: 1 • No. of pathology Labs: 1 • No. of X-Ray Technicians: 1 • No. of Laboratory Technicians: 3 • No of ECG Technicians:2 <p>As per the Statute/ DGMS guidelines, all the workers are examined once in 3 years.</p> <p>As seen from the above details that Area Hospital, Umrer Area, WCL is having all the infrastructural facilities to comply all the statutory obligations regarding occupational health survey of all employees.</p> <p>Details of IME/PME done in last 4 years are given below:</p> <table border="1" data-bbox="808 1304 1451 1520"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">No. of workers (Dept. & Cont.)</th> </tr> <tr> <th>IME</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>120</td> <td>52</td> </tr> <tr> <td>2021-22</td> <td>186</td> <td>68</td> </tr> <tr> <td>2022-23</td> <td>902</td> <td>68</td> </tr> <tr> <td>2023-24</td> <td>344</td> <td>64</td> </tr> </tbody> </table>	Year	No. of workers (Dept. & Cont.)		IME	PME	2020-21	120	52	2021-22	186	68	2022-23	902	68	2023-24	344	64
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ii.	<p>Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.</p>	<p>Being complied.</p> <p>Persons exposed to dusty areas are provided with protective gears like dust masks with goggles.</p> <p>Numbers of Dust Masks issued in last 5 years are given below:</p> <table border="1" data-bbox="797 1793 1463 1831"> <thead> <tr> <th>Sl.No.</th> <th>Year</th> <th>Nos of Dust Masks</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Sl.No.	Year	Nos of Dust Masks														
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iii.	<p>Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.</p>	<p>Being complied</p> <p>Skill training as per safety norms specified by DGMS is given to all workmen including the outsourcing employees to ensure high safety standards in mines.</p> <p>Number of persons given training in last 4 Years are given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="3">No. of workers</th> </tr> <tr> <th>Departmental</th> <th>Contractual</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>28</td> <td>102</td> <td>130</td> </tr> <tr> <td>2021-22</td> <td>105</td> <td>140</td> <td>245</td> </tr> <tr> <td>2022-23</td> <td>98</td> <td>585</td> <td>683</td> </tr> <tr> <td>2023-24</td> <td>68</td> <td>296</td> <td>364</td> </tr> </tbody> </table>	Year	No. of workers			Departmental	Contractual	Total	2020-21	28	102	130	2021-22	105	140	245	2022-23	98	585	683	2023-24	68	296	364																		
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i.	<p>The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. Action plan, in this regard, if any shall be prepared and</p>	<p>Being Complied</p> <p>Not applicable as there are no endangered flora/ fauna in core and buffer zone as per baseline data generated in EIA/EMP.</p> <p>As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna.</p>																																									

	implemented in consultation with the State Forest and Wildlife Department.	However. Plantation is being taken up along with mining activities through State Level Expert Forest Agency (MPRVVN) with MoU for 4 years maintenance after each year of plantation. This MoU is applicable for all mines of WCL in Maharashtra.																						
(g)	Public Hearing, R&R & CSR																							
i.	<p>Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks/measures as per the Action Plan submitted with budgetary provisions during the Public Hearing.</p> <p>Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/R&R Policy of the State Government, as applicable.</p>	<p>Complied. Action Taken Report on the issues raised during the Public Hearing is enclosed as Annexure: XIV.</p> <p>The details as per the present status of land acquisition is as follows:</p> <ul style="list-style-type: none"> • Land notified u/s 9(i) of CBA Act vide Gazette notification dated 11/08/12. • The Employment Roll of 1234 against 1385.54 Ha approved by WCL Board in 270th meeting on 24/10/15. • Compensatory jobs provided: 933 nos • Monetary compensation provided: 165 nos • Total: 1098 nos • Land compensation paid till date: 346.60 Crore • Monetary compensation paid: 31.91 Crore <p>Rehabilitation of Hewati village is proposed with capital provision of Rs. 35.92 crore, considering 360 nos of PAF. The rehabilitation site is under construction near Udasa village on Umrer- Nagpur Highway.</p>																						
ii.	The project proponent shall ensure that the expenditure towards, socio-economic development in and around the mine, in every financial year as per the Corporate Social Responsibility policy as per the provisions under Section 135 of the Components Act, 2013.	<p>Being complied.</p> <p>The activities undertaken for the specific villages adopted under CSR are displayed on the company website and are updated accordingly.</p> <p>In every year area-wise detailed CSR plan is prepared after due consultation with local beneficiaries. Umrer Area has spent the following under CSR in last 12 years:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Rs. in lakhs</th> </tr> </thead> <tbody> <tr> <td>2023-24</td> <td>59.50</td> </tr> <tr> <td>2022-23</td> <td>54.79</td> </tr> <tr> <td>2021-22</td> <td>46.84</td> </tr> <tr> <td>2020-21</td> <td>53.17</td> </tr> <tr> <td>2019-20</td> <td>64.80</td> </tr> <tr> <td>2018-19</td> <td>12.01</td> </tr> <tr> <td>2017-18</td> <td>15.84</td> </tr> <tr> <td>2016-17</td> <td>6.09</td> </tr> <tr> <td>2015-16</td> <td>8.46</td> </tr> <tr> <td>2014-15</td> <td>39.98</td> </tr> </tbody> </table>	Year	Rs. in lakhs	2023-24	59.50	2022-23	54.79	2021-22	46.84	2020-21	53.17	2019-20	64.80	2018-19	12.01	2017-18	15.84	2016-17	6.09	2015-16	8.46	2014-15	39.98
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2013-14	216.88
2012-13	152.98
2011-12	85.80
2010-11	49.59

*CSR funds for the year 2015-16 and 2016-17 were diverted to Swaccha Bharat Abhiyan.

The activities broadly include:

- Construction of WBM and CC road at nearby villages
- Construction of Well and Storage arrangement and pipe line for providing drinking water
- Installation of RO plant at nearby villages and ZP schools.
- Construction of Green Haat at village
- Construction of Compound wall at ZP Schools.
- Skill development training for nearby villagers.

Details enclosed as Annexure XV.

iii. The project proponent shall follow the mitigation measures provided in the Ministries OM No.Z-11013/5712014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

Being complied.

There is no habitation/village in the mine lease area. Nearest village (Hewati Village) is approx. 1200 m north from the mine boundary.

The coal transportation route lies in the south of mine lease area which is approx. 2050 m away from the Hewati village. Approx. 75 - 80% coal is transported through rail to all the major consumers. The remaining 20 – 25% coal is transported through tarpaulin covered trucks. The coal transportation road is properly maintained and it is directly connected to State Highways (BT road).

However, rehabilitation of Hewati village is proposed with capital provision of Rs. 35.92 crore, considering 360 nos of PAF. The rehabilitation site is under construction near Udas village on Umrer- Nagpur Highway.

Monitoring station is set up in this village for regular monitoring of ambient air and noise. Analysis results of the same for the month, Feb 2024 is given below:

DATE(dd:mm:yy) OF SAMPLING		HEOTI VILLAGE UM10AS				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	
04-02-2024	05-02-2024	72	22	6	BDL	Clear / Calm
05-02-2024	06-02-2024	78	28	7	BDL	Clear / Calm
11-02-2024	12-02-2024	76	26	6	BDL	Clear / Calm
12-02-2024	13-02-2024	80	30	8	BDL	Clear / Calm
18-02-2024	19-02-2024	78	28	7	BDL	Clear / Calm
19-02-2024	20-02-2024	76	26	6	BDL	Clear / Calm
25-02-2024	26-02-2024	80	30	8	BDL	Clear / Calm
26-02-2024	27-02-2024	72	22	6	BDL	Clear / Calm
NAAQS, 2009		100	60	80	80	

		<table border="1" data-bbox="771 210 1485 430"> <thead> <tr> <th colspan="2">HEOTI VILLAGE: UM10N3</th> <th colspan="2">NOISE LEVEL IN dB(A)</th> </tr> <tr> <th rowspan="2">MONTH</th> <th>DATE OF SAMPLE COLLECTION</th> <th>DAY TIME</th> <th>NIGHT TIME</th> </tr> </thead> <tbody> <tr> <td></td> <th>DETECTION LIMIT</th> <td>20</td> <td>20</td> </tr> <tr> <td>FEB'24</td> <td>07-02-2024</td> <td>46.8</td> <td>42.3</td> </tr> <tr> <td>FEB'24</td> <td>21-02-2024</td> <td>46.8</td> <td>42.8</td> </tr> <tr> <td colspan="2">NOISE POLLUTION (REGULATION AND CONTROL) RULES</td> <td>55</td> <td>45</td> </tr> </tbody> </table> <p>Regular monitoring of Ground Water level is also done in Hewati village for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January). Till date, no depletion in ground water level has been recorded. Ground water monitoring report is enclosed as Annexure: XVI.</p> <p>All blasting practices are carried out as per the permission of Director General of Mines Safety (DGMS). Ground vibration study is conducted for nearby village and the results show Peak Particle Velocity (PPV) within the permissible limit. Copy of vibration report is enclosed as Annexure- XIII</p>	HEOTI VILLAGE: UM10N3		NOISE LEVEL IN dB(A)		MONTH	DATE OF SAMPLE COLLECTION	DAY TIME	NIGHT TIME		DETECTION LIMIT	20	20	FEB'24	07-02-2024	46.8	42.3	FEB'24	21-02-2024	46.8	42.8	NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45
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iv.	The Project Proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the Project Proponent shall implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land.	<p>Not applicable.</p> <p>As per the baseline data there is no grazing land in the core zone of the project. So, there is no necessity of making alternate arrangement for livestock grazing.</p>																								
(h) Corporate Environment Responsibility																										
i.	The Company shall have a well laid down Environment Policy duly approved by the Board of Directors. The Environment Policy should prescribe for standard operating procedures to have proper checks & balances and to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. Also the company shall have a defined system of reporting of non-compliances/violations of environmental norms to the Board of	<p>Complied.</p> <p>Coal India Limited (CIL) has formulated a Corporate Environment Policy in December 1995, which was subsequently revised in 2012, 2018 and 2023. Corporate Environment Policy 2023 has been approved by CIL Board in its 460th Meeting held on 29th December 2023 for implementation at CIL and its subsidiaries.</p> <p>This Corporate Environment Policy 2023 of CIL was subsequently discussed in the 361st Meeting of the Board of Directors of WCL held on 24.02.2024. After deliberation, WCL Board has adopted the policy in principle for implementation in WCL and the same was communicated</p>																								

	Directors and/or shareholders or stakeholders.	<p>vide Ref: WCL/Office of CS/BM-361/2023-24/1187 dated 06.03.2024.</p> <p>To deal with environmental issues and for ensuring compliance with environmental clearance conditions, At project level Environmental management cell is headed by Sub Area Manager and is assisted by Project Nodal officer (Env).</p> <p>At area level, Area General Manager, Heads the environment cell and is assisted by General Manager (Op) and Nodal officer (Env).</p> <p>At corporate level at HQ, there is full-fledged Environment Department which is headed by General Manager (Env) with a multi-disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.</p> <p>In this regard, it may be mentioned here that at the Company Level a Sustainable Development Cell has been set up with multi-disciplinary officials for pursuing sustainable mining integrating environmental, social and economic factors. This cell is being monitored at the level of Director of the Company and further monitoring is being also done by CIL and MOC at the highest level.</p> <p>Coal India Limited has framed an Environment Policy which is being complied within all the mines. Copy is enclosed as Annexure – XVII.</p>
ii.	The project proponent shall comply with the provisions contained in this Ministry's OM dated 1 st May, 2018, as applicable, regarding Corporate Environment Responsibility.	<p>Not applicable.</p> <p>As per the O.M dated 1st May 2018, the provision of CER is not applicable.</p>
iii.	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.	<p>Complied.</p> <p>The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions is displayed on company website www.westerncoal.in.</p>

iv.	A separate environmental management cell, both at the project level and company headquarter level, with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	<p>Complied.</p> <p>The Environmental Management cell at corporate level is headed by GM (Env) and assisted by a multidisciplinary team of qualified and trained engineers under the control of Director (Tech.)</p> <p>At Area level, the cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Makardhokra Sub Area, Staff Officer (Civil), Umrer Area.</p> <p>At Project level, it is headed by Sub-Area Manager, Makardhokra Sub Area and assisted by Mine Manager, Makardhokra Sub Area; Safety Officer, Makardhokra Sub Area; Survey Officer, Makardhokra Sub Area and Nodal Officer (Environment) of the project.</p>																			
v.	Action plan for implementing the EMP and environmental clearance conditions shall be prepared and shall be duly approved by the competent authority. The Year-wise funds earmarked for environmental protection measures shall be kept in separate account and not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	<p>Being complied.</p> <p>The Action Plan for implementing EMP/EIA conditions are in built in the mining plan approved by Company Board.</p> <p>The funds earmarked for environment will not be diverted for other works.</p> <p>Expenditure incurred for Capital works are given below:</p> <table border="1" data-bbox="784 1102 1474 1795"> <thead> <tr> <th>Financial Year</th> <th>Expenditure (Rs. Lakhs)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td rowspan="2">2016-17</td> <td>15.44</td> <td>Construction of sedimentation tank</td> </tr> <tr> <td>30.99</td> <td>Construction of Effluent Treatment plant and washing ramp</td> </tr> <tr> <td rowspan="2">2017-18</td> <td>10.90</td> <td>Construction of building for housing of CAAQMS</td> </tr> <tr> <td>26.47</td> <td>Installation of fixed sprinklers for dust suppression including water reservoir, pipeline</td> </tr> <tr> <td>2019-20</td> <td>21.53</td> <td>Providing and installation of fixed sprinklers for dust suppression including pipeline along coal stock</td> </tr> <tr> <td>2021-22</td> <td>2.58</td> <td>Procurement and installation of Water flow meter</td> </tr> </tbody> </table>	Financial Year	Expenditure (Rs. Lakhs)	Remarks	2016-17	15.44	Construction of sedimentation tank	30.99	Construction of Effluent Treatment plant and washing ramp	2017-18	10.90	Construction of building for housing of CAAQMS	26.47	Installation of fixed sprinklers for dust suppression including water reservoir, pipeline	2019-20	21.53	Providing and installation of fixed sprinklers for dust suppression including pipeline along coal stock	2021-22	2.58	Procurement and installation of Water flow meter
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2021-22	2.58	Procurement and installation of Water flow meter																			

			12.42	Installation of 02 nos of Piezometers with DWLR
		2022-23	34.10	Procurement of one no of truck mounted Mist/Fog Generator
		2023-24	6.74	Procurement of 01 no of Trolley Mounted Mist/ Fog generator
			91.61	Providing and installation of 90 nos of fixed sprinklers for dust suppression including pipe line along coal transportation road.
vi.	Self Environmental Audit shall be conducted annually. Every three years, a third-party environmental audit shall be carried out.	<p>Complied.</p> <p>Internal environmental audit system has been setup in the company. At Area level, a multi-disciplinary committee has been constituted by order of competent authority to review the compliance status through a formatted checklist. Inter-area inspection to review compliance status is being done on quarterly basis. The report of the inspection is put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL.</p> <p>Every three years the third-party assessment of EC compliance will be carried out.</p> <p>The third part assessment of EC compliance has been undertaken through CSIR-NEERI (Expert Agency identified by Ministry). Inspection was carried out on 18/11/2021 in which no non compliances were observed.</p> <p>Third party assessment will be carried out in FY 2024-25.</p>		
(i)	Statutory Obligations			
i.	Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law, from time to time, and as applicable to this project.	Noted		
ii.	This Environmental Clearance shall be obtaining wildlife Clearance, if applicable from the Standing Committee of National Board for	Not applicable as there are no endangered flora/ fauna in core and buffer zone as per baseline data generated for EIA/EMP.		

	Wildlife.	
iii.	The Project Proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and water Act, 1974 from the concerned State Pollution Control Board.	<p>Complied. Consent to establish along with consent to operate for 4.20 MTPA has been secured from MPCB vide letter no. Format1.0/CAC/UAN No.0000062939/CO-2002001040 dated 25/02/2020 which was valid till 31/03/2021 (Copy enclosed as Annexure-VI).</p> <p>Subsequently, Consent to operate has been renewed vide letter no. Format 1.0/CAC/UAN No. MPCB-CONSNET-00001077252/CR/2211000598 dt 09/11/2022 (Copy enclosed as Annexure: VII).</p> <p>Consent to Establish for 4.5 MTPA has been secured vide letter no: Letter no. Format1.0/ CAC/ UAN No. MPCB-CONSENT-0000142418/ CE/ 2211001310 dt. 16/11/2022 (Copy enclosed as Annexure-II) and Consent to operate for 4.5 MTPA has been secured vide letter no. Format1.0/ CAC/ UAN No. MPCB- CONSNET-0000142515/ CO/ 2211001308 dt 16/11/2022, which was valid up to 31/03/2024 (Copy enclosed as Annexure-III).</p> <p>Subsequently, an application for the renewal of CTO has been submitted to Maharashtra Pollution Control Board (MPCB) vide UAN No. MPCB-CONSENT-0000195787 on 24.01.2024 which is under process at MPCB, Mumbai.</p>
iv.	The project proponent shall obtain necessary permission of the Central Ground Water Authority (CGWA).	<p>Complied. Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/ORIG/2019/5548) which was valid up to 09/06/2021. Copy of NOC is enclosed as Annexure – IX.</p> <p>Renewal application for NOC is submitted to CGWA. Renewal application is approved by CGWA and the formal NOC is awaited.</p>
(j)	Monitoring of Project	
i.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and	<p>Being complied. Four nos. of ambient air quality monitoring stations have been established in consultation with MPCB Officials. considering meteorological data, Topographical features and environmentally and ecologically sensitive targets which are as follows:</p> <ul style="list-style-type: none"> • Manager office • Railway Weigh Bridge • Pipardol Village

ecologically sensitive targets in consultation with the SPCB.

Online ambient air quality monitoring station/ stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.

- Welsakara Village



Maximum and minimum concentration of parameters (SPM, PM₁₀, NO_x, SO_x and PM_{2.5}) as per Environmental monitoring report (from Oct 23 to Mar 24) is as follows:

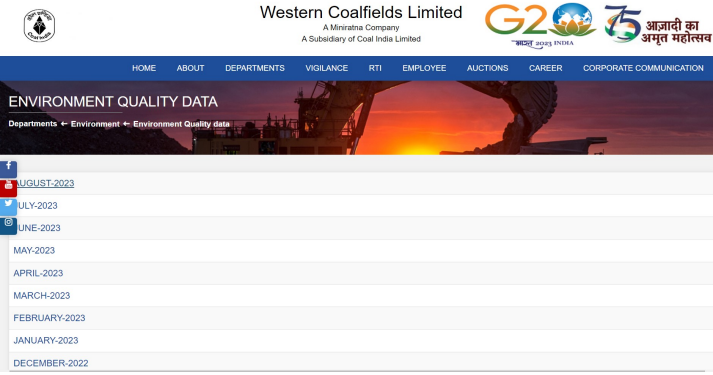
Parameters	Core Zone/ Buffer Zone	Permissible limit	Concentration (24 hourly values in µg/m ³)	
			Min	Max
SPM	Core	600	235	280
PM ₁₀	Core	300	135	266
	Buffer	100	70	84
PM _{2.5}	Core	-	36	54
	Buffer	60	22	32
NO _x	Core	120	11	14
	Buffer	80	6	9
SO ₂	Core	120	BDL	12
	Buffer	80	BDL	BDL

The Monitoring Report in respect of Makardhokra – III OCP is enclosed as Annexure-IV.

One Online Continuous Ambient Air Quality Monitoring Station has also been set up in consultation with MPCB and is in operation.

Monitoring of heavy metals is being carried out once in six months by CMPDIL. Analysis result of the same is given below:

		<p style="text-align: center;">ENV. MONITORING REPORT</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Environment Laboratory CMPDI RI-IV, NAGPUR</td> <td style="width: 50%; text-align: center;">Test Report Ambient Air quality monitoring data for heavy metals</td> </tr> <tr> <td>TEST REPORT NO. RIN/TR/JUNE /HM24</td> <td>DATE OF ISSUE</td> </tr> <tr> <td>NAME OF CUSTOMER GMJ(ENV.),WCL(HQ), NAGPUR</td> <td>SAMPLE DESCRIPTION</td> </tr> <tr> <td>TEST REQUIRED Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)</td> <td></td> </tr> <tr> <td>NAME OF AREA UMBRE</td> <td>SAMPLING METHOD : ISOP 4</td> </tr> <tr> <td>NAME OF PROJECT DINESH OC</td> <td>SAMPLING PLAN : LGR 47</td> </tr> <tr> <td>No. of Pages 1</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>Sl No.</th> <th>Name of location</th> <th>Location Code</th> <th>Date of sampling</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MANAGER OFFICE</td> <td>UM30A-1</td> <td>21-04-2023</td> </tr> <tr> <td>2</td> <td>NEAR RAILWAY WEIGH BRIDGE</td> <td>UM30A-2</td> <td>20-04-2023</td> </tr> <tr> <td>3</td> <td>PIPARDOL VILLAGE</td> <td>UM30A-3</td> <td>21-04-2023</td> </tr> <tr> <td>4</td> <td>WELSAKRA VILLAGE</td> <td>UM30A-4</td> <td>21-04-2023</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Parameter</th> <th rowspan="2">Method of analysis</th> <th rowspan="2">Detection limit</th> <th colspan="4">Observed Value</th> </tr> <tr> <th>UM30A-1</th> <th>UM30A-2</th> <th>UM30A-3</th> <th>UM30A-4</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Arsenic, µg/m³</td> <td>ASTM D 4185</td> <td>0.0007 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>2</td> <td>Lead, µg/m³</td> <td>IS 5182 PART 22</td> <td>7.0 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>3</td> <td>Nickle, µg/m³</td> <td>ASTM D 4185</td> <td>0.007 µg/m³</td> <td>BDL</td> <td>0.0082</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>4</td> <td>Total Chromium, µg/m³</td> <td>ASTM D 4185</td> <td>0.0045 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>5</td> <td>Cadmium, µg/m³</td> <td>ASTM D 4185</td> <td>0.0015 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>6</td> <td>Mercury, µg/m³</td> <td>ASTM D 4185</td> <td>0.0007 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> </tbody> </table> <p style="text-align: right; font-size: small;">BDL: BELOW DETECTION</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;">  SCIENTIFIC ASSISTANT </div> <div style="text-align: center;">  DEEPANSHI AUTHORIZED </div> </div> <p style="text-align: center; margin-top: 10px;">Copy of heavy metal monitoring report is enclosed as Annexure -XVIII.</p>	Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air quality monitoring data for heavy metals	TEST REPORT NO. RIN/TR/JUNE /HM24	DATE OF ISSUE	NAME OF CUSTOMER GMJ(ENV.),WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	TEST REQUIRED Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)		NAME OF AREA UMBRE	SAMPLING METHOD : ISOP 4	NAME OF PROJECT DINESH OC	SAMPLING PLAN : LGR 47	No. of Pages 1		Sl No.	Name of location	Location Code	Date of sampling	1	MANAGER OFFICE	UM30A-1	21-04-2023	2	NEAR RAILWAY WEIGH BRIDGE	UM30A-2	20-04-2023	3	PIPARDOL VILLAGE	UM30A-3	21-04-2023	4	WELSAKRA VILLAGE	UM30A-4	21-04-2023	Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value				UM30A-1	UM30A-2	UM30A-3	UM30A-4	1	Arsenic, µg/m ³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL	2	Lead, µg/m ³	IS 5182 PART 22	7.0 µg/m ³	BDL	BDL	BDL	BDL	3	Nickle, µg/m ³	ASTM D 4185	0.007 µg/m ³	BDL	0.0082	BDL	BDL	4	Total Chromium, µg/m ³	ASTM D 4185	0.0045 µg/m ³	BDL	BDL	BDL	BDL	5	Cadmium, µg/m ³	ASTM D 4185	0.0015 µg/m ³	BDL	BDL	BDL	BDL	6	Mercury, µg/m ³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL
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2	NEAR RAILWAY WEIGH BRIDGE	UM30A-2	20-04-2023																																																																																													
3	PIPARDOL VILLAGE	UM30A-3	21-04-2023																																																																																													
4	WELSAKRA VILLAGE	UM30A-4	21-04-2023																																																																																													
Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value																																																																																												
				UM30A-1	UM30A-2	UM30A-3	UM30A-4																																																																																									
1	Arsenic, µg/m ³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL																																																																																									
2	Lead, µg/m ³	IS 5182 PART 22	7.0 µg/m ³	BDL	BDL	BDL	BDL																																																																																									
3	Nickle, µg/m ³	ASTM D 4185	0.007 µg/m ³	BDL	0.0082	BDL	BDL																																																																																									
4	Total Chromium, µg/m ³	ASTM D 4185	0.0045 µg/m ³	BDL	BDL	BDL	BDL																																																																																									
5	Cadmium, µg/m ³	ASTM D 4185	0.0015 µg/m ³	BDL	BDL	BDL	BDL																																																																																									
6	Mercury, µg/m ³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL																																																																																									
ii.	<p>The Ambient Air Quality Monitoring in the core zone shall be carried out to ensure the coal industry standards notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to CPCB/SPCB.</p>	<p>Being complied.</p> <p>Ambient air quality is being monitored as per the coal industry standards notified vide GSR 742(E) dated 25.9.2000 & reports are submitted to MOEF & CC Nagpur & Maharashtra Pollution Control Board.</p> <p>Copy of Monitoring Report is enclosed as Annexure - IV.</p> <p>Monitoring of heavy metals is being carried out once in six months by CMPDIL and the report of the same is submitted to MOEF & CC Nagpur & Maharashtra Pollution Control Board. Copy of heavy metal monitoring report is enclosed as Annexure -XVIII.</p>																																																																																														
iii.	<p>Effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standard notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.</p>	<p>Being complied.</p> <p>The quality of mine discharge water is monitored fortnightly basis as per GSR 742(E) of dated 25-05-2000.</p> <p>Maximum and minimum concentration of Water parameters as per Environmental monitoring report (from Oct 2023 to Mar 2024) is as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Parameters</th> <th colspan="2">Concentration (mg/L)</th> </tr> <tr> <th>Permissible Limit</th> <th>Min Max</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Parameters	Concentration (mg/L)		Permissible Limit	Min Max																																																																																									
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Ph	5.5 to 9.0	7.79	8.23															
TSS	100	18	28															
COD	250	28	40															
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iv.	<p>The monitoring data shall be updated on the company's website and displayed at the project site. The circular No: J-20012/1/2006-IA.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.</p>	<p>Being complied.</p> <p>Environment monitoring reports are being sent to R.O, MoEF, Nagpur and MPCB on regular basis and the same is being displayed on the company website also.</p>  <p>Reports enclosed as Annexure-IV.</p>																
v.	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of groundwater levels shall be carried out four times in a year i.e, pre-monsoon, monsoon, post-monsoon and winter and the ground water quality shall be monitored once in a year and data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change / Regional Office.</p>	<p>Being complied.</p> <p>Regular monitoring of ground water level from existing wells at 27 locations of Buffer zone is being done for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January).</p> <p>Quality of groundwater as per IS: 10500: 2012 is analyzed for 27 locations in Buffer zone once a year.</p> <p>Ground water level and quality monitoring report is sent to R.O., MoEF& CC, Nagpur and CGWA on regular basis.</p> <p>Ground water monitoring report is enclosed as Annexure: XVI.</p> <p>In compliance with the condition stipulated in the NOC for ground water abstraction issued by CGWA, 2 nos of piezometers are installed in core zone for continuous monitoring of ground water level.</p>																

vi. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring date shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.

Being complied.

Water quality of Amb river is monitored regularly as per GSR 742(E) of dated 25-05-2000 and report is sent to Ministry of Environment, Forest and Climate Change / Regional Office along with the EC compliance report. Analysis result of the same is given below:

ENV. MONITORING REPORT


Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Surface water quality monitoring data	
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TEST REPORT NO.	RIN/TR/DEC-23/SW29	DATE OF ISSUE	30-12-23
NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	UMRER OC	SAMPLING PLAN: LQR 47	
NO. OF PAGES	1		






SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.93
2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	2
3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	340
4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.6
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	5.1
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS-GTA Method:2017	0.005	BDL
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL
10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method :2014	0.03	BDL
11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL
12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS-GTA Method:2017	0.0005	BDL
14	Fluoride (as F ⁻) -mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.352
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ -B UV Spectrophotometric Method: 2017	0.5	2.665
17	Sulphate (as SO ₄ ²⁻) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	60
18	Chlorides (as Cl ⁻) -mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	32

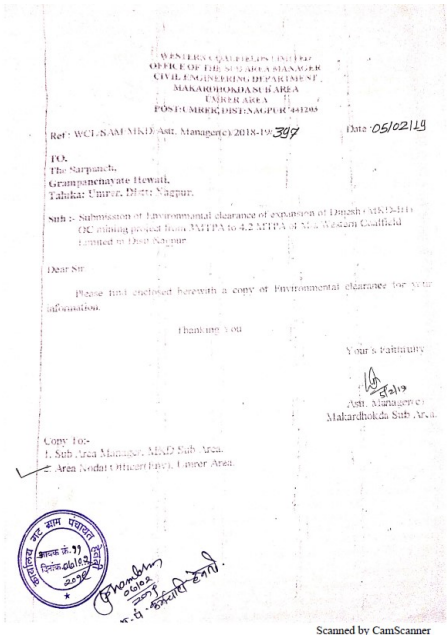
BDL: BELOW DETECTION LIMIT


SCIENTIFIC ASSISTANT


DEEPANSHU SAHU
AUTHORIZED SIGNATORY

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RIN/TR/DEC-23/SW30	DATE OF ISSUE	30-12-23	NAME OF CUSTOMER	GM(ENV.), WCL(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE	NAME OF AREA	UMRER	SAMPLING METHOD: LSOP 5		NAME OF PROJECT	UMRER OC	SAMPLING PLAN: LQR 47		NO. OF PAGES	1			NAME OF LOCATION:	DOWN STREAM OF AMB RIVER WRT MINE DISCHARGE	SAMPLING DATE:	03-10-23	SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.83	2	Colour (Hazen)	IS 3025 Part-4 Pt-Co Method: 2017	1	3	3	TDS -mg/l	IS 3025 Part-16 Gravimetric Method: 2017	25	510	4	Oil & Grease - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL	5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.3	6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	8	7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL	8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL	9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL	10	Copper (as Cu) -mg/l	IS 3025 Part-42 AAS Flame Method: 2014	0.03	BDL	11	Zinc as (Zn) -mg/l	IS 3025 Part-49 AAS Flame Method:2014	0.01	BDL	12	Selenium (Se) -mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method: 2017	0.005	BDL	13	Cadmium as (Cd)- mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.0005	BDL	14	Fluoride (as F) - mg/l	APHA, 23rd Edition 4500-F D SPADNS Method: 2017	0.02	0.421	15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL	16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	2.098	17	Sulphate (as SO ₄ ²⁻) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	127	18	Chlorides (as Cl ⁻) -mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	52
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vii.	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and Climate Change/ Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to march of the financial years.</p>	<p>Being complied.</p> <p>Six monthly reports on the status of the implementation of the stipulated environmental safeguards are submitted regularly to Regional office of Ministry of Environment, Forest and Climate Change.</p> <p>The six-monthly report for the period from April 2023 to Sep 2023 is submitted to MoEF&CC through email dated 30/11/2023.</p>																																																																																																																										

viii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted.
(k)	Miscellaneous	
i.	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	<p>Complied. Efforts are being made for the uses of Solar energy and conventional light bulbs are replaced by LEDs to reduce energy consumption.</p> <p>01 no of 40 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at AGM Office of Umrer area and 01 no of 12 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at Area Hospital, Umrer Area.</p>
ii.	The project authorities shall inform to the Regional Office regarding commencement of mining operations	Noted and complied.
iii.	A copy of Environment Clearance shall be marked to concerned Panchayat. A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional office, District Industry sector and Collector's office/Tehsildar Office for information in public domain within 30 days.	<p>Complied. A copy of Environmental Clearance letter for 4.2 MTPA has marked to concerned Panchayat vide letter no. WCL/ SAM/ MKD/Asst. Manager (C)/ 2018-19/ 397 dated 05/02/19.</p>  <p>A copy of Environmental Clearance letter for 4.5 MTPA sent</p>

to concerned Panchayat vide letter no. WCL/ SAM/ MKD/Asst. Manager (C)/ 2022-23/249 dated 05/07/2022.

WESTERN COALFIELDS LIMITED
 OFFICE OF THE SUB AREA MANAGER
 CIVIL ENGINEERING DEPARTMENT
 MAKARDHOKDA SUB AREA
 UMRER AREA
 POST:UMRER, DIST:NAGPUR 441203

Ref: WCL/SAM/MKD/Asst.Manager(c)/2022-23/ 249

TO,
 The Sarpanch,
 Grampanchayat Hewati,
 Taluka: Umrer, Dist. Nagpur.

Sub :- Environment clearance for expansion of Dinesh (Makardh mining project for increase in production capacity from 4.2 MTP area of 919.63 Ha by M/s Western Coalfields Limited in Dist. Nag

Dear Sir,

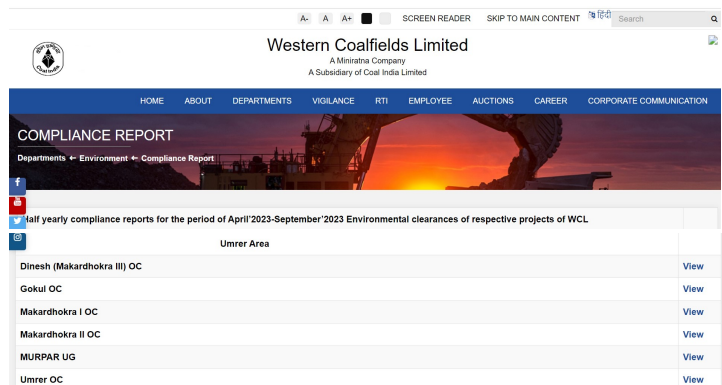
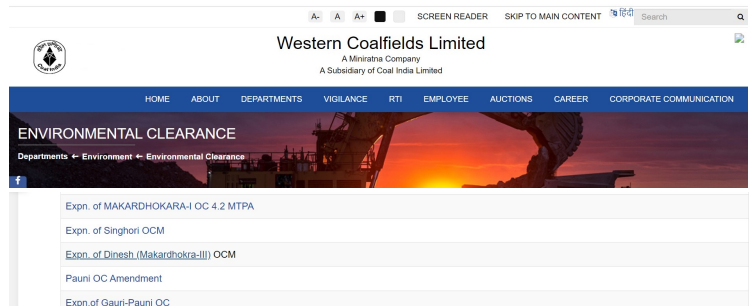
Please find enclosed herewith a copy of Environment information.




Copy enclosed as Annexure – XX.

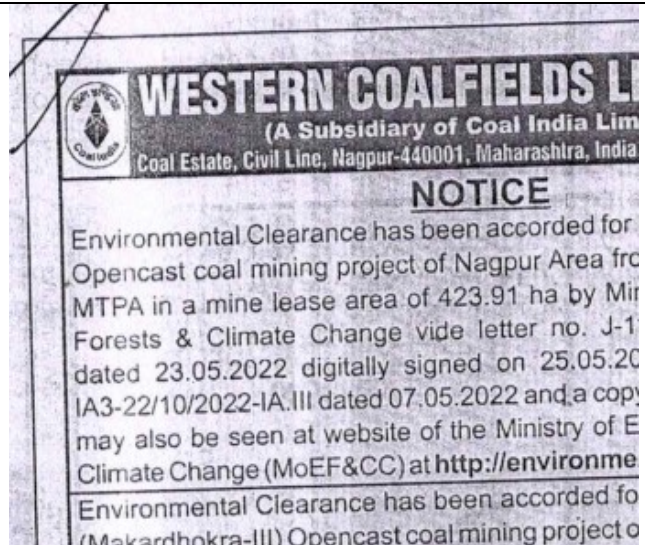
iv. The Environmental Clearance shall be uploaded on the company's website. The, compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain.

Complied.

The clearance letter and the six-monthly compliance report had been uploaded on the company's website so as to bring the same in the public domain.



	<p>i. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of this clearance, informing that the project has been accorded environmental clearance and a copy of the same is available with the State Pollution Control Board and also at website of the Ministry.</p>	<p>Complied.</p> <p>The same had been done after receipt of EC.</p> <p>Advertisements are given in the following News Papers:</p> <ol style="list-style-type: none"> 1. 'The Hitavada' (English daily, Nagpur) dated 19/12/2018  <ol style="list-style-type: none"> 2. 'Lokmat' (Marathi daily, Nagpur) dated 19/12/2018  <ol style="list-style-type: none"> 3. 'Punya Nagari' (Marathi daily, Nagpur) dated 31/05/2022  <ol style="list-style-type: none"> 4. 'The Times of India' (English daily, Nagpur) dated 31/05/2022
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(Copy enclosed as annexure-XXI)

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

Complied.

The environmental statement for each financial year is submitted regularly to the MOEF's Regional Office, Nagpur along with the status of compliance of EC conditions as being practiced in all operating mines.

The Audit report for year 2022-23 was submitted online to MPCB on 28/09/2023. (Copy Enclosed as Annexure-XXII).

Sr No.	UAN No.	Application Name	Submitted Date	Action
1	MPCB-ENVIRONMENT_STATEMENT-0000006563	ENVIRONMENT STATEMENT	28-09-2017	Download
2	MPCB-ENVIRONMENT_STATEMENT-0000011198	ENVIRONMENT STATEMENT	14-09-2018	Download
3	MPCB-ENVIRONMENT_STATEMENT-0000019653	ENVIRONMENT STATEMENT	25-09-2019	Download
4	MPCB-ENVIRONMENT_STATEMENT-0000027850	ENVIRONMENT STATEMENT	26-09-2020	Download
5	MPCB-ENVIRONMENT_STATEMENT-0000028350	ENVIRONMENT STATEMENT	28-09-2020	Download
6	MPCB-ENVIRONMENT_STATEMENT-0000037477	ENVIRONMENT STATEMENT	28-09-2021	Download
7	MPCB-ENVIRONMENT_STATEMENT-0000048233	ENVIRONMENT STATEMENT	28-09-2022	Download
8	MPCB-ENVIRONMENT_STATEMENT-0000060620	ENVIRONMENT STATEMENT	28-09-2023	Download

Audit report for the FY 2023-24 will be submitted on or before

		30/09/2024 as per the norms.
iii.	The above conditions will be enforced inter-alia, under the provisions of the Water (Preventions & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ Hon'ble High Court and any other Court of Law relating to the subject matter.	Noted & agreed.
5	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.	Agreed.
6	The proponent shall obtain all necessary clearances clearances/ approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	All the necessary clearances and approvals from the Central and state authorities has been secured.
7	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted and agreed.
8	The coal company/ project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No. 114/2014 in the matter of 'Common	Noted. All mining activities are being carried out within the mine lease area and till date no illegal mining is being carried out.

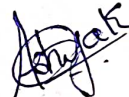
	Cause Vs Union of India & others.	
9	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgement of Hon'ble Supreme Court	Does not pertain to the project.
10	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgement of Hon'ble Supreme Court.	Noted. Till date, no notice for the payment of environmental compensation were received for Makardhokra-III (Dinesh).
11	This issues in supersession of the earlier EC granted vide letter No- J-11015/537/2008-IA. II (M) dated 21 st June, 2011.	Noted.



Sub Area Manager
Makardhokra-III OC Mine
Makardhokra Sub Area



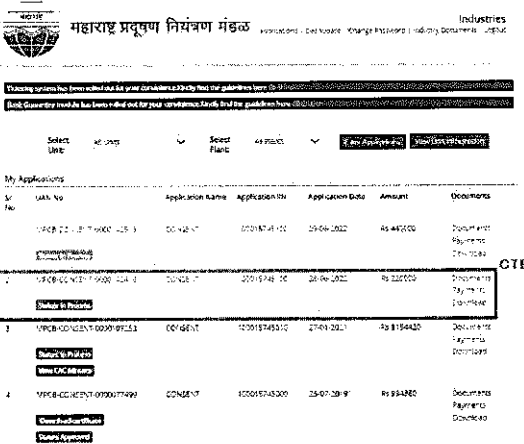
Colliery Manager
Makardhokra-III OC Mine
Makardhokra Sub Area



Asst. Manager (Env.)
Makardhokra-III OC Mine
Makardhokra Sub Area

A report on the Status of Compliances of various conditions stipulated in Environment Clearance granted by MOEF&CC vide letter no. J-11015/537/2018-IA-II (M) dated 29.11.2018 for Expansion of Dinesh (Makardhokra-III) Opencast Coal mining project from 3.0 MTPA to 4.2 MTPA in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

Sl. No.	Conditions as per EC dated 29.11.2018	Compliance status as on 30.09.2022
A.	Specific Conditions:	
i.	The Project proponent shall obtain Consent to establish from the state pollution control boards for the proposed peak capacity of 4.2 MTPA prior to commencement of the increased production.	<p>Complied</p> <p>Environmental Clearance has been secured for Expansion of Dinesh (Makardhokra-III) Opencast Project for the production capacity of 4.20 MTPA in land area of 919.63 ha, vide MoEF & CC letter no. F. no. J-11015/537/2008-IA-II (M) dated 29/11/2018. Copy enclosed as (Annexure-I).</p> <p>Consent to establish along with consent to operate for 4.20 MTPA has been secured from MPCB vide letter no. Format1.0/CAC/UAN No.0000062939/CO-2002001040 dated 25/02/2020 which was valid till 31/03/2021. Copy enclosed as (Annexure-II).</p> <p>Renewal application for consent to operate for production capacity of 4.20 MTPA was submitted to MPCB through its online portal vide dated 27/01/2021. Consent is approved in the 7th Consent Appraisal Committee (CAC) meeting held on 14/09/2022 which is valid upto 31/03/2024. Minutes of the meeting is enclosed as (Annexure-III).</p> <p>Environmental clearance for the increase in the production capacity from 4.2 MTPA to 4.5 MTPA (MOEF OM No. J-11015/537/2008-IA. II (M) dated 26/05/2022) has been secured as per the provisions of OM vide no F. NO.IA3-22/10/2022-IA.III dated 07/05/2022. Copy Enclosed as (Annexure-IV).</p> <p>Subsequently, Application for the Consent to Establish (CTE) and Consent to operate (CTO) for production capacity of 4.50 MTPA was submitted to MPCB through its online portal. This application is under process at MPCB, Mumbai.</p>

		 <p>The screenshot shows the MPCB website interface. At the top, there are navigation links for 'Home', 'About Us', 'Services', 'Contact Us', and 'Help'. Below this, there are several status messages in red and black boxes. A 'Select Unit' dropdown is set to 'MPCB' and 'Select Plant' is set to 'MPCB'. A table titled 'My Applications' is displayed with the following data:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>App. No.</th> <th>Application Name</th> <th>Application No.</th> <th>Application Date</th> <th>Amount</th> <th>Occurrence</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MPCB-CC-HEMT-000017900</td> <td>CC-HEMT</td> <td>0001874100</td> <td>29-06-2022</td> <td>RS 470000</td> <td>Documents Payment Download</td> </tr> <tr> <td>2</td> <td>MPCB-CC-HEMT-000017900</td> <td>CC-HEMT</td> <td>0001874100</td> <td>29-06-2022</td> <td>RS 200000</td> <td>Documents Payment Download</td> </tr> <tr> <td>3</td> <td>MPCB-CC-HEMT-000017900</td> <td>CC-HEMT</td> <td>0001874100</td> <td>29-06-2022</td> <td>RS 1154420</td> <td>Documents Payment Download</td> </tr> <tr> <td>4</td> <td>MPCB-CC-HEMT-000017900</td> <td>CC-HEMT</td> <td>0001874100</td> <td>29-06-2022</td> <td>RS 884280</td> <td>Documents Payment Download</td> </tr> </tbody> </table>	S. No.	App. No.	Application Name	Application No.	Application Date	Amount	Occurrence	1	MPCB-CC-HEMT-000017900	CC-HEMT	0001874100	29-06-2022	RS 470000	Documents Payment Download	2	MPCB-CC-HEMT-000017900	CC-HEMT	0001874100	29-06-2022	RS 200000	Documents Payment Download	3	MPCB-CC-HEMT-000017900	CC-HEMT	0001874100	29-06-2022	RS 1154420	Documents Payment Download	4	MPCB-CC-HEMT-000017900	CC-HEMT	0001874100	29-06-2022	RS 884280	Documents Payment Download
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4	MPCB-CC-HEMT-000017900	CC-HEMT	0001874100	29-06-2022	RS 884280	Documents Payment Download																															
ii.	<p>Transportation of coal from face to coal heap shall be carried out by tippers. Further, the coal transportation from coal heap to Coal Handling Plant shall be carried out through covered trucks.</p>	<p>Complied</p> <p>Transportation of coal from face to coal heap/ stock yard and coal heap/ stock yard to Coal Handling Plant is carried out by dumpers and tippers. All the trucks leaving the mine premises are covered with tarpaulin.</p>																																			
iii.	<p>To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.</p>	<p>Complied</p> <p>In order to control generation of dust at source, Mist Spray Arrangement system (150 nos nozzles) is provided at Coal Handling Plant. 10 nos of fixed water sprinklers are provided at CHP for dust suppression.</p> <p>In addition, 03 nos of Trolley mounted mist/fog generator are provided at CHP. Proposal for procurement of additional 09 nos of Trolley mounted mist/fog generator is also initiated.</p>																																			
iv.	<p>Mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient number of water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions as presented before the Committee, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding etc.</p>	<p>Complied</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>In addition to fixed water sprinklers & rain guns, trolley mounted mist/fog generator; Mobile Water tanker/sprinkler are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal stock yard. The Fugitive dust is also monitored regularly and is kept under control.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none"> Automatic tyre washing system is installed at main check post of Umrer Area. 																																			

CCR for Expansion of Dinesh (Makardhokra-III) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

		<ul style="list-style-type: none"> • 4 No. of mobile water tankers of 18 KL capacity and 2 nos of 10 KL Capacity are in operation. • 90 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows: <table border="1" data-bbox="794 450 1406 748"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and Weigh bridge</td> <td>12</td> </tr> <tr> <td>Along coal transportation road and Coal Stock Yard</td> <td>24</td> </tr> </tbody> </table> • Mist Spray Arrangement system (150 nos nozzles) is provided at CHP. • One no of trolley mounted mist/fog generator is provided • One no of truck mounted fog cannon is in operation. 	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and Weigh bridge	12	Along coal transportation road and Coal Stock Yard	24
Location	Nos. of fixed sprinklers											
CHP	10											
Siding	44											
Along Coal stock approach Road and Weigh bridge	12											
Along coal transportation road and Coal Stock Yard	24											
v.	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 4.2 MTPA.	<p>Complied</p> <p>Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/ORIG/2019/5548) which was valid up to 09/06/2021. Renewal application for NOC is submitted to CGWA on 07/06/2021, which is under process at CGWA, New Delhi.</p> <p>Copy of NOC is enclosed as (Annexure-V).</p>										
vi.	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	<p>Complied</p> <p>For surveillance of occupational health among workers, PME is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p> <p>Moreover, for every new employee Initial Medical Examination (IME) is also carried out for both departmental and contractual employee as per the provisions of the statute.</p> <p>During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine examination of blood and urine.</p>										

All the activities within the mine are carried out with complying safety aspect and regular awareness is created among employees regarding safety and to avoid any accidents. All the employees working in projects are provided with PPE like mask, ear muffs, helmets and protective shoes.

Various national and International Days are observed to increase awareness and educate general population (e.g. No Tobacco Day/ No Smoking Day, World AIDS day, World Breast Feeding Week etc.).

Regular Family Welfare Camps organized with the help of State Govt. Full Co-operation is extended to State Govt. for Pulse Polio immunization. Medical facilities are being extended to non-employees in all sorts of acute emergencies.

The details of the set up at Umrer Area Hospital are as follows:

- Periodical Medical Examination (PME) Centres: 1 (Occupational Health Centres)
- No. of Doctor engaged in Periodical Medical Examination: 1
- No. of Doctor trained in Periodical Medical Examination: 2
- No. of X-Ray machines (500 mA): 1
- No. of ILO film Tests: 1
- No. of Audiometer units: 1
- No. of Spirometer units: 1
- No. of pathology Labs: 1
- No. of X-Ray Technicians: 1
- No. of Laboratory Technicians: 1

As seen from the above details that Area Hospital, Umrer Area, WCL is having all the infrastructural facilities to comply all the statutory obligations regarding occupational health survey of all employees.

Details of IME/PME done in last 3 years are given below:

Year	No. of workers (Dept. & Cont.)	
	IME	PME
2020-21	120	52
2021-22	186	68
2022-23 (Till date)	290	51

Copy of medical examination reports are enclosed as **(Annexure-VI)**.

vii.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	<p>Complied</p> <p>Skill development trainings are being conducted in the villages and also in the Group VTC of Umrer Area for livelihood and self-employment. Details of Skill Development programs are as follows:</p> <table border="1" data-bbox="767 465 1439 1037"> <thead> <tr> <th>Year</th> <th>Training Programs</th> <th>No. of beneficiaries</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>Apparel designing, Beauty parlor and Electrician</td> <td>85</td> </tr> <tr> <td>2017-18</td> <td>Office automation and Data entry operator</td> <td>26</td> </tr> <tr> <td>2018-19</td> <td>Tailoring and Apparel designing</td> <td>60</td> </tr> <tr> <td>2019-20</td> <td>Beauty parlor, Tailoring and Apparel designing</td> <td>240</td> </tr> <tr> <td>2020-21</td> <td rowspan="2">Not conducted due to restrictions imposed by the Govt in Covid 19 Pandemic period</td> <td rowspan="2">Nil</td> </tr> <tr> <td>2021-22</td> </tr> <tr> <td>2022-23 (Till date)</td> <td>Machine operator, driver, Footwear design and Tailoring</td> <td>39</td> </tr> </tbody> </table>	Year	Training Programs	No. of beneficiaries	2016-17	Apparel designing, Beauty parlor and Electrician	85	2017-18	Office automation and Data entry operator	26	2018-19	Tailoring and Apparel designing	60	2019-20	Beauty parlor, Tailoring and Apparel designing	240	2020-21	Not conducted due to restrictions imposed by the Govt in Covid 19 Pandemic period	Nil	2021-22	2022-23 (Till date)	Machine operator, driver, Footwear design and Tailoring	39
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2022-23 (Till date)	Machine operator, driver, Footwear design and Tailoring	39																						
viii.	To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.	<p>PP has consented to condition.</p> <p>Medical camps are organized on regular basis by WCL, Umrer Area.</p> <p>Details of medical camps conducted in last 5 years are given below:</p> <table border="1" data-bbox="767 1301 1439 1599"> <thead> <tr> <th>Year</th> <th>No. of Medical camps</th> <th>No. of Beneficiaries</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>57</td> <td>4691</td> </tr> <tr> <td>2019-20</td> <td>34</td> <td>1878</td> </tr> <tr> <td>2020-21</td> <td>3*</td> <td>90</td> </tr> <tr> <td>2021-22</td> <td>27</td> <td>1849</td> </tr> <tr> <td>2022-23 (Till date)</td> <td>21</td> <td>1564</td> </tr> </tbody> </table> <p>*Due to Covid 19 pandemic, medical camps couldn't be conducted during lockdown period. Free Covid-19 testing was conducted for nearby villagers on regular basis and a blood donation camp was also conducted.</p> <p>During the Covid-19 Pandemic period, following initiatives were taken to support State Government and Nearby Villagers.</p>	Year	No. of Medical camps	No. of Beneficiaries	2018-19	57	4691	2019-20	34	1878	2020-21	3*	90	2021-22	27	1849	2022-23 (Till date)	21	1564				
Year	No. of Medical camps	No. of Beneficiaries																						
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2020-21	3*	90																						
2021-22	27	1849																						
2022-23 (Till date)	21	1564																						

WCL Umrer Area initiatives during COVID-19

Period of Support – 2020-21, 2021-22

A. Support to State Government

S.No.	Particular	Remark
1	Providing 5 OIPAP machine to State administration - BiPAP - bi-level positive airway pressure - This machine is used for supporting breathing for patients whose lungs are not operating efficiently	State Govt hospital, Umrer and Kuhi
2	1) 2 nos. oxygen concentrator machine 2) 200 PPE kits 3) 25 hospital bed and mattress	Chimur tehsil office for support to setting up Covid Care Centre(CCC facility)

B. Support to nearby communities

S.No.	Particular	Count of packets
1	Ration packets	852
2	Food Packets	4750

C. Support to ZP Schools

S.No.	Particular	Amount
1	No. of schools supported	11
2	Mask and Sanitizer to Students	1040
3	Pulse Oximeter, Thermal Gun, Soap, Sodium Hypochlorite, Sanitizer bottle	Provided to administration for maintaining covid-19 protocols

D. Support for COVID-19 testing and vaccination

S.No.	Particular	Nos.
1	Testing for Covid-19 at WCL premises	3317
2	Vaccination administered at WCL premises	1671

E. Fund transfer from WCL Umrer employees to PM-Cares fund

All the employees of Umrer Area contributed one day Basic salary to PM-Cares fund amounting to Rs. 34.31 Lakh.

Total Amount expended by WCL Umrer Area for Covid-19 Support

S.No.	Particular	Amount(Rs)
1	Total of A+B+C+E	47.23 Lakh

In addition to this, a seminar and medical camps on Cardiac issues and cervical spondylitis were conducted on 17/08/2022 in collaboration with Wockhardt Hospital Nagpur for providing awareness on the topic which was opened for employees of WCL and all villagers. Around 183 persons were availed the facility.

A Cancer detection camp was also organized with the support of Rashtrasant Tukdoji Cancer Hospital Nagpur on 27.09.2022. This camp was also made opened for villagers and Employees of WCL. In coordination with govt. PHC, patients from 5 sub centres in our command area were ferried in our ambulances for giving access to this medical service to villagers. Asha workers of these villages were roped in supporting this initiative. Overall 87 persons were

		<p>screened for oral, breast and cervix cancer.</p> <p>OPD facility is also provided for surrounding villages. No. of beneficiaries are mentioned below:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>No. of Beneficiaries who availed OPD facility</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>2499</td> </tr> <tr> <td>2019-20</td> <td>2691</td> </tr> <tr> <td>2020-21</td> <td>1587</td> </tr> <tr> <td>2021-22</td> <td>2890</td> </tr> <tr> <td>2022-23 (Till date)</td> <td>1377</td> </tr> </tbody> </table>	Year	No. of Beneficiaries who availed OPD facility	2018-19	2499	2019-20	2691	2020-21	1587	2021-22	2890	2022-23 (Till date)	1377
Year	No. of Beneficiaries who availed OPD facility													
2018-19	2499													
2019-20	2691													
2020-21	1587													
2021-22	2890													
2022-23 (Till date)	1377													
ix.	<p>Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.</p>	<p>Being Complied.</p> <p>The mine has started its operation on 25/11/2016. In 2017, 5000 nos of trees have been planted through Madhya Pradesh Van Vikas Nigam over 2.00 ha and in 2022, 15,000 nos of trees have been planted over 6.00 ha. The species planted are Neem, Karanj, Sisso, Peltafarm, Gulmohar, Saptapanni, etc.</p> <p>Further on, as proposed in the EMP, plantation will be done on external OB clumps, backfilled area, along road sides, vacant land and township by planting native species in consultation with State Forest Department. Density of the plants will be maintained at 2500 plants per ha.</p>												
x.	<p>Efforts shall be made for utilizing alternate source of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.</p>	<p>Being Complied.</p> <p>Mine discharge water is the primary source of water for all the industrial purposes. Mine water is collected in sump of capacity 93 Million gallons in the quarry area of mine. This sump allows settlement of suspended particles present in water. The supernatant from these sumps is then pumped out on surface and fed into the surface sedimentation tank. This mine water is used for industrial purposes such as dust suppression, fire fighting and plantation etc.</p> <p>Domestic requirement of water is fulfilled by 02 nos. of tube well in Umrer Colony.</p> <p>As such mine water and water from bore well is being used for industrial and domestic purpose and thus minimizing the dependability on a single source.</p>												
xi.	<p>A third-party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI/NEERI/IIT or any other</p>	<p>Complied</p> <p>Third party assessment of EC compliance will be carried out once in three years.</p>												

	expert agency identified by the Ministry.	Last third part assessment of EC compliance has been undertaken through CSIR-NEERI (Expert Agency identified by Ministry). Inspection was carried out on 18/11/2021 in which no non-compliances were observed.
B.	General Conditions:	
(a)	Mining	
i.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there- under as applicable.	Complied Mining is being carried out as per the provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
ii.	No change in mining method, Calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change.	PP has consented to condition. Method of mining is opencast with shovel-dumper combination. There has been no change in scope of work and production programme beyond EC/ approved Mining Plan. No change in technology, mining method, calendar programme and scope of working will be made without prior approval of the MOEF&CC.
iii.	Mining shall be carried out as per the approved mining plan including mine closure plan, abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	PP has consented to condition. Mining is being carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).
iv.	No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian forest act, 1927.	PP has consented to condition. Project does not involve any forest land. However, In future also, no mining activity will be carried out in forest land without obtaining Forestry Clearance.
(b)	Land Reclamation and Water Conservation	
i.	Digital survey of entire lease hold area/ core zone using Satellite Remote sensing survey shall be carried out at least once in three	Complied. Digital processing of the entire lease area using Remote sensing technique is done every year by

CCR for Expansion of Dinesh (Makardhokra-III) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

	<p>years for monitoring land use pattern and report in 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office (RO).</p>	<p>CMPDIL.</p> <p>Reports of which are available on WCL website. The same is submitted to MOEF&CC/ RO on regular basis.</p> <p>Land Restoration / Reclamation monitoring report of Dinesh OC mine based on satellite data for the year 2021 is enclosed as (Annexure-VII).</p>
ii.	<p>The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of any river/ rivulet/ pond/lake etc., shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Govt Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS.</p>	<p>Complied.</p> <p>There is only one seasonal nallah (Amb Nallah) flowing through the mine lease. The surface drainage plan considering the presence of this nallah is prepared and implemented.</p> <p>The embankment is constructed along the Amb nallah (at the south side of nallah), as per the provision of approved Mining Plan. The height of the embankment provided to protect the mine along its boundary has been kept 6.00 meters above the HFL of the nallah. The Top width of embankment has been kept 34.00 m which is sufficient to protect the mine from peak flow of the nallah.</p> <p>Mining is being carried out as per the approved Mining Plan/EIA/EMP report and all precautions are being taken for avoiding any adverse impact on surface drainage as envisaged in the approved reports.</p>
iii.	<p>The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40m, adequate engineering interventions shall be provided for sustenance of adequate life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purpose and shall be handed over to the respective state govt. as specified in the guidelines for preparation of mine closure plan issued by the MOC dated 27.08.2009 and subsequent amendments.</p>	<p>Being Complied.</p> <p>Final mine void depth is 144.50 m (after Phase-II), as per approved Mining plan. As it exceeds more than 40 m, suitable engineering interventions will be provided for sustenance.</p> <p>The backfilled quarry will be reclaimed with plantation as per EMP in consultation with State Forest Department.</p> <p>Density of the plants will be maintained at 2500 plants per ha. The proposed water body of 152 ha of de-coaled void will be gently sloped and upper benches shall be terraced and stabilized with plantation.</p> <p>Post Mining activities will be taken up according to the approved Mine Plan/EIA/EMP. The mine closure plan is the integral part of approved mining plan/EIA/EMP as per the guidelines issued by MOC and being followed up.</p>

iv.	<p>The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/ "post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest and climate change/ Regional Office on six monthly basis.</p>	<p>Being Complied.</p> <p>All the mining work is being conducted as per Approved Mining Plan and shall be continued.</p> <p>Progressive compliance status of land use pattern is submitted regularly to the Ministry of Environment, Forest and climate change/ Regional Office along with Six Monthly compliance Report.</p> <p>Land Use Plan During Mining (as on 31/03/2022)</p> <table border="1" data-bbox="730 517 1375 815"> <thead> <tr> <th>SI No.</th> <th>Particulars</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quarry Area (Excavation area)</td> <td>143.788</td> </tr> <tr> <td>2</td> <td>External OB dumps</td> <td>99.00</td> </tr> <tr> <td>3</td> <td>Rationalization/ Blasting zone</td> <td>329.22</td> </tr> <tr> <td>4</td> <td>Infrastructure & Roads</td> <td>7.77</td> </tr> <tr> <td>5</td> <td>Other area</td> <td>339.852</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>919.63</td> </tr> </tbody> </table>	SI No.	Particulars	Area in Ha	1	Quarry Area (Excavation area)	143.788	2	External OB dumps	99.00	3	Rationalization/ Blasting zone	329.22	4	Infrastructure & Roads	7.77	5	Other area	339.852	Total		919.63
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v.	<p>The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off.</p> <p>The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office on six monthly basis.</p>	<p>Being Complied.</p> <p>The mine has started its operation on 25/11/2016. Dumping of top soil is in progress at earmarked site in the western side of the quarry with proper slope. Till 31/03/2022, 6.86 Mm³ of top soil has been stacked in 134.75 Ha of land.</p> <p>This soil will be used as early as possible for reclamation and development of green belt.</p> <p>OB generated is stored in external OB dump no. 1 and 2 of slope not exceeding 28° in ML area. All the dumps are active.</p> <p>The reclamation of dump sites with plantation using native species will start only after the dumps get inactive, as directed the reclamation will be continued till the same are self-sustaining and report will be submitted accordingly.</p> <p>The maximum height, final slope with benches etc will be reached in due course of operation. As planned, the backfilling will start and OB dump would ultimately get merged with the backfilling area. As stated earlier, the biological reclamation will start only after the dumps attain the full height & technically reclaimed.</p> <p>Till 31/03/2022, 67.72 Mm³ of OB has been excavated. 62.55 Mm³ of excavated OB has been</p>																					

	<p>stacked at external OB dumps. Details of OB dump is given below:</p> <table border="1"> <thead> <tr> <th>Dump</th> <th>Area in Ha</th> <th>Height of Dump (m)</th> </tr> </thead> <tbody> <tr> <td>External OB (Dump 2)</td> <td>101.745</td> <td>54</td> </tr> <tr> <td>External OB (Dump 3)</td> <td>96.68</td> <td>45</td> </tr> </tbody> </table> <p>Till 31/03/2022, 5.166 Mm³ of the excavated OB has been backfilled in decoaled area of Mine.</p>	Dump	Area in Ha	Height of Dump (m)	External OB (Dump 2)	101.745	54	External OB (Dump 3)	96.68	45
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(c) Emissions, Effluents, and Waste Disposal

i.	<p>Transporting of coal, to the extent permitted by road, shall be carried out by covered trucks/ conveyors.</p> <p>Effective control measures such as regular water/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values PM₁₀/PM_{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/ State Pollution Control Board.</p>	<p>Being Complied.</p> <p>All the vehicles transporting coal are loaded within permissible limit and trucks leaving the mine premises are covered with tarpaulin. It is ensured by using CCTV cameras. At present four nos of CCTV Cameras are installed at main check post of Umrer Area. CCTV footages are regularly monitored. Security guards are also deployed at main check post to check whether all the trucks leaving the mine premises are properly covered or not.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>In addition to fixed water sprinklers & rain guns, Trolley mounted fogging cannons & Mobile Water tankers / Sprinklers are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal stock yard. The Fugitive dust is also monitored regularly and is kept under control.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none"> • Automatic tyre washing system is installed at main check post of Umrer Area. • 4 No. of mobile water tankers of 18 KL capacity and 2 nos of 10KL Capacity are in operation. • 90 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows: <table border="1"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> </tbody> </table>	Location	Nos. of fixed sprinklers	CHP	10
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ii.	Greenbelt, consisting of 3-tier plantation, of width not less than 7.5m, shall be developed all along the mine lease area in a phased manner. The green belt comprising of a mix of native species shall be developed all along the major approach / coal transportation roads.	<p>Being Complied.</p> <p>The mine has started its operation on 25/11/2016. In 2017, 5000 nos of trees have been planted through Madhya Pradesh Van Vikas Nigam over 2.00 ha and in 2022, 15,000 nos of trees have been planted over 6.00 ha. The species planted are Neem, Karanj, Sisso, Peltafarm, Gulmohar, Saptapanni, etc.</p> <p>Plantation programme for next 2 years is given below:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Target (Nos)</th> </tr> </thead> <tbody> <tr> <td>2023-24</td> <td>35,000</td> </tr> <tr> <td>2024-25</td> <td>35,000</td> </tr> </tbody> </table> <p>Plantation will be carried out by Madhya Pradesh Rajya Van Vikas Nigam (MPRVVN) under long term MoU with maintenance of four years after each year of planting.</p> <p>Density of the plants will be maintained at 2500 plants per ha.</p>	Year	Target (Nos)	2023-24	35,000	2024-25	35,000
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iii.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a "bypass" road, it should be constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	<p>Being Complied.</p> <p>The transportation of coal is carried out as per the provisions and route proposed in the approved mining plan.</p> <p>The coal transportation road is properly maintained and it is directly connected to State Highways (BT road).</p> <p>There is no village in the mine lease area and coal is not transported through any village/ habitation. There is no need for bypass road.</p>						

<p>iv.</p>	<p>Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining "PUC" certificate from the authorized pollution testing centres.</p>	<p>Being Complied.</p> <p>As per the present practice, the PUC certificate is obtained for all vehicles and the same will be continued. Details are given below:</p> <p>M/S SAINIK MINING & ALLIED SERVICES LIMITED, MKD-III DINESH OCP, UMRER AREA, NAGPUR(M.H) SUB: LIST OF PUC</p> <table border="1"> <thead> <tr> <th>Sr.No</th> <th>VEHICLE NO.</th> <th>MODEL NO.</th> <th>TYPE</th> <th>CHASIS NO.</th> <th>ENGINE NO.</th> <th>PUC EXPIRY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MH408G-1010</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G4H8939142</td> <td>665836</td> <td>03.01.2022</td> </tr> <tr> <td>2</td> <td>MH408G-1057</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G4H8939147</td> <td>665867</td> <td>01.03.2022</td> </tr> <tr> <td>3</td> <td>MH408G-1059</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G1H8939146</td> <td>665851</td> <td>04.02.2022</td> </tr> <tr> <td>4</td> <td>MH408G-1060</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G4H8939145</td> <td>665855</td> <td>04.03.2022</td> </tr> <tr> <td>5</td> <td>MH408G-1062</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G0H8939140</td> <td>665823</td> <td>01.02.2022</td> </tr> <tr> <td>6</td> <td>MH408G-1066</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G4H8939155</td> <td>665914</td> <td>04.03.2022</td> </tr> <tr> <td>7</td> <td>MH408G-1031</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G4H8939230</td> <td>669730</td> <td>04.03.2022</td> </tr> <tr> <td>8</td> <td>MH408G-1032</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G4H8939531</td> <td>669733</td> <td>04.03.2022</td> </tr> <tr> <td>9</td> <td>MH408G-1034</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2X502G8H8939533</td> <td>669739</td> <td>04.03.2022</td> </tr> <tr> <td>10</td> <td>MH408L 8053</td> <td>VOLVO FMX 440</td> <td>TIPPER</td> <td>VV2J502G808914339E16</td> <td>402601</td> <td>04.03.2022</td> </tr> </tbody> </table> <p>Copy of PUC certificates are enclosed as (Annexure-VIII).</p>	Sr.No	VEHICLE NO.	MODEL NO.	TYPE	CHASIS NO.	ENGINE NO.	PUC EXPIRY	1	MH408G-1010	VOLVO FMX 440	TIPPER	VV2X502G4H8939142	665836	03.01.2022	2	MH408G-1057	VOLVO FMX 440	TIPPER	VV2X502G4H8939147	665867	01.03.2022	3	MH408G-1059	VOLVO FMX 440	TIPPER	VV2X502G1H8939146	665851	04.02.2022	4	MH408G-1060	VOLVO FMX 440	TIPPER	VV2X502G4H8939145	665855	04.03.2022	5	MH408G-1062	VOLVO FMX 440	TIPPER	VV2X502G0H8939140	665823	01.02.2022	6	MH408G-1066	VOLVO FMX 440	TIPPER	VV2X502G4H8939155	665914	04.03.2022	7	MH408G-1031	VOLVO FMX 440	TIPPER	VV2X502G4H8939230	669730	04.03.2022	8	MH408G-1032	VOLVO FMX 440	TIPPER	VV2X502G4H8939531	669733	04.03.2022	9	MH408G-1034	VOLVO FMX 440	TIPPER	VV2X502G8H8939533	669739	04.03.2022	10	MH408L 8053	VOLVO FMX 440	TIPPER	VV2J502G808914339E16	402601	04.03.2022
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<p>v.</p>	<p>Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provide with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust.</p> <p>Drills shall be wet operated or fitted with dust extractors.</p>	<p>Complied.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>Side cladding is provided along belt conveyors. Drills have wet drilling arrangement.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none"> Automatic tyre washing system is installed at main check post of Umrer Area. 4 No. of mobile water tankers of 18 KL capacity and 2 nos of 10 KL Capacity are in operation. 90 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows: <table border="1"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and Weigh bridge</td> <td>12</td> </tr> <tr> <td>Along coal transportation road and Coal Stock Yard</td> <td>24</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Mist Spray Arrangement system (150 nos nozzles) is provided at CHP. One no of trolley mounted mist/fog generator is provided 	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and Weigh bridge	12	Along coal transportation road and Coal Stock Yard	24																																																																			
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vi.	Coal Handling Plant shall be operated with effective measures viz. bag filters/ water or mist sprinkling system etc. to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.	<p>Being Complied.</p> <p>Coal handling Plant is being maintained with mist type water sprinkling arrangement (150 nos of nozzles and trolley mounted mist fogger) in order to arrest/check fugitive emissions at source.</p> <p>In addition to the mist spraying arrangement, fixed type water sprinkling arrangement and trolley mounted mist/fog generators has been provided.</p> <p>90 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge and CHP, details are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Nos. of fixed sprinklers</th> </tr> </thead> <tbody> <tr> <td>CHP</td> <td>10</td> </tr> <tr> <td>Siding</td> <td>44</td> </tr> <tr> <td>Along Coal stock approach Road and Weigh bridge</td> <td>12</td> </tr> <tr> <td>Along coal transportation road and Coal Stock Yard</td> <td>24</td> </tr> </tbody> </table> <p>Air quality parameters are being monitored by CMPDIL on fortnightly basis. Maximum and minimum concentration of parameters (SPM, PM₁₀, NO_x, SO_x and PM_{2.5}) as per Environmental monitoring report (from April 22 to July 22) is as follows:</p> <table border="1"> <thead> <tr> <th rowspan="2">Parameters</th> <th rowspan="2">Core Zone/ Buffer Zone</th> <th rowspan="2">Permissible limit</th> <th colspan="2">Concentration (24 hourly values in µg/m³)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td rowspan="2">SPM</td> <td>Core</td> <td>600</td> <td>210</td> <td>360</td> </tr> <tr> <td>Buffer</td> <td>-</td> <td>114</td> <td>159</td> </tr> <tr> <td rowspan="2">PM₁₀</td> <td>Core</td> <td>300</td> <td>135</td> <td>210</td> </tr> <tr> <td>Buffer</td> <td>100</td> <td>65</td> <td>82</td> </tr> <tr> <td rowspan="2">NO_x</td> <td>Core</td> <td>120</td> <td>12</td> <td>24</td> </tr> <tr> <td>Buffer</td> <td>80</td> <td>12</td> <td>16</td> </tr> <tr> <td rowspan="2">SO₂</td> <td>Core</td> <td>120</td> <td>BDL</td> <td>13</td> </tr> <tr> <td>Buffer</td> <td>80</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td rowspan="2">PM_{2.5}</td> <td>Core</td> <td>-</td> <td>33</td> <td>54</td> </tr> <tr> <td>Buffer</td> <td>60</td> <td>21</td> <td>37</td> </tr> </tbody> </table> <p>It may be seen from the data that the values are well within the permissible limits.</p> <p>The Monitoring Report in respect of Makardhokra – III OCP is enclosed as (Annexure-IX).</p>	Location	Nos. of fixed sprinklers	CHP	10	Siding	44	Along Coal stock approach Road and Weigh bridge	12	Along coal transportation road and Coal Stock Yard	24	Parameters	Core Zone/ Buffer Zone	Permissible limit	Concentration (24 hourly values in µg/m ³)		Min	Max	SPM	Core	600	210	360	Buffer	-	114	159	PM ₁₀	Core	300	135	210	Buffer	100	65	82	NO _x	Core	120	12	24	Buffer	80	12	16	SO ₂	Core	120	BDL	13	Buffer	80	BDL	BDL	PM _{2.5}	Core	-	33	54	Buffer	60	21	37
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PM _{2.5}	Core	-	33	54																																																												
	Buffer	60	21	37																																																												

vii.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for construction and augmentation of ground water resources.	<p>Being Complied.</p> <p>Ground water is not used for any mining operations.</p> <p>Rainwater harvesting measures implemented are listed below:</p> <ul style="list-style-type: none"> The Mine sump (Capacity: 93 Million gallons) is unlined and have potential for augmentation of ground water resources. A Check Dam is also provided at Lal Puliya Railway Bridge. Dimensions (Length-55 m, height-1.2 m from river bed) <table border="1" data-bbox="775 696 1445 981"> <thead> <tr> <th>Location</th> <th>Storage capacity / Volume (m³) (a)</th> <th>Number of fillings (b)</th> <th>Estimated yearly recharge (a*b*0.75) (m³/year)</th> </tr> </thead> <tbody> <tr> <td>Check Dam on Amb river near Umrer OC Expn. Mine</td> <td>31,350</td> <td>3</td> <td>70537</td> </tr> </tbody> </table> <p>Note: Annual Recharge due to Check Dam = 75% of gross storage (in m3/yr)</p> <p>Where gross storage = Storage capacity x no. of fillings</p> <ul style="list-style-type: none"> Roof top Rainwater harvesting system is provided at AGM Office and Canteen building of Umrer OCM <table border="1" data-bbox="775 1301 1445 1648"> <thead> <tr> <th>Location</th> <th>Roof Area (m²)</th> <th>Annual Rainfall (mm)</th> <th>Runoff Coefficient</th> <th>Estimated Yearly Recharge (m³/Y)</th> </tr> </thead> <tbody> <tr> <td>Area General Manager office</td> <td>850</td> <td>1200</td> <td>0.85</td> <td>867</td> </tr> <tr> <td>Canteen of Umrer Sub-Area office</td> <td>170</td> <td>1200</td> <td>0.85</td> <td>173</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>1040</td> </tr> </tbody> </table> <p>Note: Water available (in liters) = Annual rainfall (in mm) x Roof area (in sq.m.) x Runoff Coefficient (for concrete roof top value is taken-0.85) Unused/vacant land (35.78 %) within the lease area also continuing the ground water recharge.</p>	Location	Storage capacity / Volume (m ³) (a)	Number of fillings (b)	Estimated yearly recharge (a*b*0.75) (m ³ /year)	Check Dam on Amb river near Umrer OC Expn. Mine	31,350	3	70537	Location	Roof Area (m ²)	Annual Rainfall (mm)	Runoff Coefficient	Estimated Yearly Recharge (m ³ /Y)	Area General Manager office	850	1200	0.85	867	Canteen of Umrer Sub-Area office	170	1200	0.85	173	Total				1040
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viii.	Catch/ garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to	<p>Being Complied.</p> <p>To arrest the flow of silt and sediments, following</p>																												

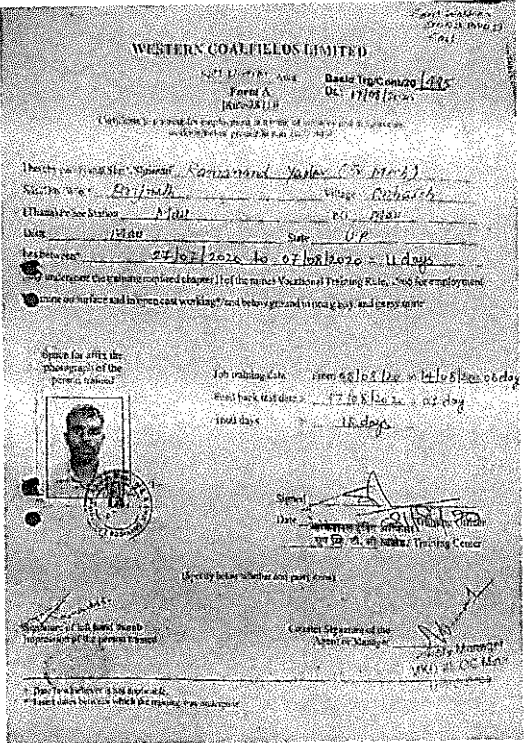
	<p>prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly desilted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression measures and green belt development. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.</p>	<p>actions are taken:</p> <p>i) To arrest flow of silt & sediment during monsoon, catch drain of size (top width 3 m, bottom width 2 m & height 2 m) has been constructed.</p> <p>ii) The silt and sediment from OB benches are guided through cross drainage into the sump (80m x 150m x 2m) having capacity of 24000 m³ to allow settlement of suspended particles.</p> <p>iii) The drain and sumps are de-silted before onset of every monsoon.</p> <p>Sump capacity is adequate to allow proper settlement of particles. Water collected in the sump is utilised for dust suppression measures.</p> <p>The catch drains at the toe of the dump provide all protection measures against flow of silt and sediments. As such no separate construction of toe wall is required.</p>																							
ix.	<p>Industrial waste water from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.</p>	<p>Being Complied.</p> <p>The effluent from workshop is treated in ETP provided with oil & grease trap (capacity: 150 KLD). Treated effluent is recycled and used in workshop for washing of HEMM.</p> <p>The quality water is monitored fortnightly and adequate measures will be taken (if need arises) to maintain the quality of water within permissible limits.</p> <p>Maximum and minimum concentration of Water parameters as per Environmental monitoring report (from April 2022 to July 2022) is as follows:</p> <table border="1" data-bbox="740 1621 1374 1823"> <thead> <tr> <th rowspan="2">Parameters</th> <th colspan="3">Concentration (mg/L) except pH</th> </tr> <tr> <th>Permissible Limit</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 to 9.0</td> <td>7.45</td> <td>8.17</td> </tr> <tr> <td>TSS</td> <td>100</td> <td>26</td> <td>36</td> </tr> <tr> <td>COD</td> <td>250</td> <td>36</td> <td>88</td> </tr> <tr> <td>O & G</td> <td>10</td> <td colspan="2">BDL</td> </tr> </tbody> </table> <p>The Monitoring Report in respect of Makardhokra – III</p>	Parameters	Concentration (mg/L) except pH			Permissible Limit	Min	Max	pH	5.5 to 9.0	7.45	8.17	TSS	100	26	36	COD	250	36	88	O & G	10	BDL	
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		OCP is enclosed as (Annexure-IX). The domestic sewage disposal arrangement of 0.3 MLD capacity using Phytorid technology is provided in combined township of Umrer area where employees of Makardhokra-III OC project reside.															
x.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Being Complied. Groundwater recharge measures taken up are listed below: <ul style="list-style-type: none"> The Mine sump (Capacity-93 Million gallons) is unlined and have potential for augmentation of ground water resources. A Check Dam is also provided at Lal Puliya Railway Bridge. Dimensions (Length-55 m, height-1.2 m from river bed) Presently, no water shortage has been observed in the nearby villages. However, if there is any water shortage in future it will be supplemented by necessary arrangement based on the requisition of the villagers															
(d)	Illumination, Noise & Vibration Control																
i.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & RO on six-monthly basis.	Complied. Adequate lighting arrangements are provided in mine premises to meet DGMS standards. These are monitored regularly by lux meter. Copy of illumination survey report is enclosed as (Annexure-X).															
ii.	Adequate measures shall be taken for control of noise levels below 85 Db (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/ muffs in conformity with the prescribed norms/ guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	Complied. Noise pollution control measures are being implemented. Personnel working in operating mine are being provided with PPE like Ear plugs/ muffs. Numbers of Ear Plugs issued in last 4 years are given below: <table border="1" data-bbox="785 1659 1426 1921"> <thead> <tr> <th>Sl. No.</th> <th>Year</th> <th>Nos of ear plugs provided</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2019-20</td> <td>154</td> </tr> <tr> <td>2</td> <td>2020-21</td> <td>59</td> </tr> <tr> <td>3</td> <td>2021-22</td> <td>45</td> </tr> <tr> <td>5</td> <td>2022-23 (Till date)</td> <td>16</td> </tr> </tbody> </table> Regular awareness programmes are also undertaken at VTC.	Sl. No.	Year	Nos of ear plugs provided	1	2019-20	154	2	2020-21	59	3	2021-22	45	5	2022-23 (Till date)	16
Sl. No.	Year	Nos of ear plugs provided															
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5	2022-23 (Till date)	16															

iii.	Controlled blasting techniques shall be practiced in order to Mitigative ground vibrations and fly rocks as per the guidelines prescribed by the DGMS.	<p>Being Complied.</p> <p>Controlled blasting techniques with use of delay detonators are being practiced to control the ground vibration and to arrest the fly rocks. Controlled blasting technique as permitted by DGMS is adapted.</p> <p>Survey is being carried out in nearby village by project authorities. Report is enclosed as (Annexure-XI).</p>																			
iv.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises and report in this regard shall be submitted to this Ministry/ RO on six-monthly basis.	<p>Being Complied.</p> <p>Noise level monitoring station is established near Pit Office. Day time & night time noise level data are monitored fortnightly as per Env. (protection) Amendment Rule, 2000. Report of the same is being submitted to MoEF & CC on six-monthly basis.</p> <p>Noise level, as per Environmental monitoring report (from April 22 to July 22) is as follows:</p> <table border="1" data-bbox="735 801 1374 1037"> <thead> <tr> <th rowspan="2">Time</th> <th colspan="3">Noise level in dB(A)</th> </tr> <tr> <th>Permissible limit</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td colspan="4">Near Pit Office</td> </tr> <tr> <td>Day time</td> <td>75</td> <td>51.9</td> <td>56.4</td> </tr> <tr> <td>Night time</td> <td>70</td> <td>50.7</td> <td>55.7</td> </tr> </tbody> </table> <p>The Monitoring Report in respect of Makardhokra – III OCP is enclosed as (Annexure-IX)</p>	Time	Noise level in dB(A)			Permissible limit	Min	Max	Near Pit Office				Day time	75	51.9	56.4	Night time	70	50.7	55.7
Time	Noise level in dB(A)																				
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(e)	Occupational Health & Safety																				

<p>i.</p>	<p>The project Proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides regular periodic health check-up, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any.</p>	<p>Being Complied.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p> <p>During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine examination of blood and urine.</p> <p>In case some abnormality is detected during the course of the above examination further investigations are carried out as required.</p> <p>When a person is diagnosed with a certain disease, he/ she is referred to the concerned specialist for confirmation and initiation of treatment.</p> <p>If, on radiological examination, a person is suspected to be having Coal Worker's Pneumoconiosis he is referred to WCL Pneumoconiosis Board. There is a team of specialist trained in Pneumoconiosis, examine him and comes to a conclusion as to whether he suffers from Coal Worker's Pneumoconiosis or not, compensation to be paid and his fitness for continuing his job. In suitable cases, as per the recommendation of the Apex Medical Board, there is provision for change of job.</p> <p>Various national and International Days are observed to increase awareness and educate general population (e.g. No Tobacco Day/ No Smoking Day, World AIDS day, World Breast Feeding Week etc.).</p> <p>Regular Family Welfare (L.T.T.) Camps organized with the help of State Govt. Full Co-operation is extended to State Govt. for Pulse Polio immunization. Medical facilities are being extended to non-employees in all sorts of acute emergencies.</p> <p>The details of the set up at Umrer Area Hospital are as follows:</p> <ul style="list-style-type: none"> • Periodical Medical Examination (PME) Centres: 1 (Occupational Health Centres) • No. of Doctor engaged in Periodical Medical Examination: 1 • No. of Doctor trained in Periodical Medical Examination: 2 • No. of X-Ray machines (500 Ma): 1 • No. of ILO film Tests: 1 • No. of Audiometer units: 1 • No. of Spirometer units: 1 • No. of pathology Labs: 1
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		<ul style="list-style-type: none"> No. of X-Ray Technicians: 1 No. of Laboratory Technicians: 1 <p>As per the Statute/ DGMS guidelines, all the workers are examined once in 3 years.</p> <p>As seen from the above details that Area Hospital, Umrer Area, WCL is having all the infrastructural facilities to comply all the statutory obligations regarding occupational health survey of all employees.</p> <p>Details of IME/PME done in last 3 years are given below:</p> <table border="1" data-bbox="753 600 1362 831"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">No. of workers (Dept. & Cont.)</th> </tr> <tr> <th>IME</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>120</td> <td>52</td> </tr> <tr> <td>2021-22</td> <td>186</td> <td>68</td> </tr> <tr> <td>2022-23 (Till date)</td> <td>290</td> <td>51</td> </tr> </tbody> </table>	Year	No. of workers (Dept. & Cont.)		IME	PME	2020-21	120	52	2021-22	186	68	2022-23 (Till date)	290	51																				
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ii.	<p>Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.</p>	<p>Being Complied.</p> <p>Persons exposed to dusty areas are provided with protective gears like dust masks with goggles.</p> <p>Numbers of Dust Masks issued in last 4 years are given below:</p> <table border="1" data-bbox="738 1171 1375 1435"> <thead> <tr> <th>Sl.No.</th> <th>Year</th> <th>Nos of Dust Masks provided</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2019-20</td> <td>182</td> </tr> <tr> <td>2</td> <td>2020-21</td> <td>136</td> </tr> <tr> <td>3</td> <td>2021-22</td> <td>89</td> </tr> <tr> <td>4</td> <td>2022-23 (Till date)</td> <td>15</td> </tr> </tbody> </table> <p>As per statute all personnel working in mines are given training and retraining on safety and health aspects on different trades for both departmental and contractual workers.</p> <p>Number of persons given training in last 3 Years are given below:</p> <table border="1" data-bbox="715 1688 1402 1883"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="3">No. of workers</th> </tr> <tr> <th>Departmental</th> <th>Contractual</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>28</td> <td>102</td> <td>130</td> </tr> <tr> <td>2021-22</td> <td>105</td> <td>140</td> <td>245</td> </tr> <tr> <td>2022-23 (Till date)</td> <td>27</td> <td>231</td> <td>258</td> </tr> </tbody> </table>	Sl.No.	Year	Nos of Dust Masks provided	1	2019-20	182	2	2020-21	136	3	2021-22	89	4	2022-23 (Till date)	15	Year	No. of workers			Departmental	Contractual	Total	2020-21	28	102	130	2021-22	105	140	245	2022-23 (Till date)	27	231	258
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		<p>Copy of Certificate of Training is given below for reference:</p>  <p>Certificates of Training are enclosed for reference as (Annexure-XII)</p>																			
iii.	<p>Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.</p>	<p>Being Complied.</p> <p>Skill training as per safety norms specified by DGMS is given to all workmen including the outsourcing employees to ensure high safety standards in mines.</p> <p>Number of persons given training in last 3 Years are given below:</p> <table border="1" data-bbox="762 1518 1449 1749"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="3">No. of workers</th> </tr> <tr> <th>Departmenta</th> <th>Contractua</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>28</td> <td>102</td> <td>130</td> </tr> <tr> <td>2021-22</td> <td>105</td> <td>140</td> <td>245</td> </tr> <tr> <td>2022-23 (Till date)</td> <td>27</td> <td>231</td> <td>258</td> </tr> </tbody> </table> <p>Certificates of Training are enclosed for reference as (Annexure-XII).</p>	Year	No. of workers			Departmenta	Contractua	Total	2020-21	28	102	130	2021-22	105	140	245	2022-23 (Till date)	27	231	258
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(f)	Ecosystem and Biodiversity conservation																				
i.	<p>The project proponent shall take all precautionary measures during mining operation for conservation</p>	<p>Being Complied.</p> <p>Not applicable as there are no endangered flora/ fauna</p>																			

	and protection of endangered flora/fauna, if any, spotted/reported in the study area. Action plan, in this regard, if any shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	in core and buffer zone as per baseline data generated in EIA/EMP. As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna. However, Plantation is being taken up along with mining activities through State Level Expert Forest Agency (MPRVVN) with MoU for 4 years maintenance after each year of plantation. This MoU is applicable for all mines of WCL in Maharashtra.						
(g)	Public Hearing, R&R & CSR							
i.	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks/measures as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/R&R Policy of the State Government, as applicable.	Complied. Action Taken Report on the issues raised during the Public Hearing is enclosed as (Annexure: XIII) . The details as per the present status of land acquisition is as follows: <ul style="list-style-type: none"> • Land notified u/s 9(i) of CBA Act vide Gazette notification dated 11.08.2012. • The Employment Roll of 1234 against 1385.54 ha approved by WCL Board in 270th meeting on 24.10.2015. • Compensatory jobs provided: 908 nos • Monetary compensation provided: 157 nos • Total: 1065 nos • Land compensation paid till date: Rs. 346.59 Crore • Monetary compensation paid: Rs. 30.167 Crore Rehabilitation of Hewati village is proposed with capital provision of Rs. 35.92 crore, considering 360 nos of PAF. The rehabilitation site is under construction near Udasa village on Umrer- Nagpur Highway.						
ii.	The project proponent shall ensure that the expenditure towards, socio-economic development in and around the mine, in every financial year as per the Corporate Social Responsibility policy as per the provisions under Section 135 of the Components Act, 2013.	Being Complied. The activities undertaken for the specific villages adopted under CSR are displayed on the company website and are updated accordingly. In every year area-wise detailed CSR plan is prepared after due consultation with local beneficiaries. Umrer Area has spent the following under CSR in last 12 years: <table border="1"> <thead> <tr> <th>Year</th> <th>Rs. in lakhs</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>46.84</td> </tr> <tr> <td>2020-21</td> <td>53.17</td> </tr> </tbody> </table>	Year	Rs. in lakhs	2021-22	46.84	2020-21	53.17
Year	Rs. in lakhs							
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			<table border="1"> <tr><td>2019-20</td><td>64.80</td></tr> <tr><td>2018-19</td><td>12.01</td></tr> <tr><td>2017-18</td><td>15.84</td></tr> <tr><td>2016-17</td><td>6.09*</td></tr> <tr><td>2015-16</td><td>8.46*</td></tr> <tr><td>2014-15</td><td>39.98</td></tr> <tr><td>2013-14</td><td>216.88</td></tr> <tr><td>2012-13</td><td>152.98</td></tr> <tr><td>2011-12</td><td>85.80</td></tr> <tr><td>2010-11</td><td>49.59</td></tr> </table> <p>*CSR funds for the year 2015-16 and 2016-17 were diverted to Swaccha Bharat Abhiyan.</p> <p>The activities broadly include:</p> <ul style="list-style-type: none"> • Construction of WBM and CC road at nearby villages • Construction of Well and Storage arrangement and pipe line for providing drinking water • Installation of RO plant at nearby villages and ZP schools. • Construction of Green Haat at village • Construction of Compound wall at ZP Schools. • Skill development training for nearby villagers. <p>Details enclosed as (Annexure XIV).</p>	2019-20	64.80	2018-19	12.01	2017-18	15.84	2016-17	6.09*	2015-16	8.46*	2014-15	39.98	2013-14	216.88	2012-13	152.98	2011-12	85.80	2010-11	49.59
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iii.	<p>The project proponent shall follow the mitigation measures provided in the Ministries OM No.Z-11013/5712014-IA.11 (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".</p>	<p>Being Complied.</p> <p>There is no habitation/village in the mine lease area. Nearest village (Hewati Village) is approx. 1200 m north from the mine boundary.</p> <p>The coal transportation route lies in the south of mine lease area which is approx. 2050 m away from the Hewati village. Approx. 75 - 80% coal is transported through rail to all the major consumers. The remaining 20-25% coal is transported through tarpaulin covered trucks. The coal transportation road is properly maintained and it is directly connected to State Highways (BT road).</p> <p>However, rehabilitation of Hewati village is proposed with capital provision of Rs. 35.92 crore, considering 360 nos of PAF. The rehabilitation site is under construction near Udasa village on Umrer- Nagpur Highway.</p> <p>Monitoring station is set up in this village for regular monitoring of ambient air and noise. Analysis results of the same for the month, July 22 is given below:</p>																					

HEOTI VILLAGE:UM10A5							ENVIRONMENT CONDITIONS (Sp./Wind)
DATE(dd.mm.yy) OF SAMPLING		PARAMETERS (24 hourly values in µg/m ³)				BDL	
FROM	TO	1	2	3	4		5
06.07.2022	07.07.2022	152	61	32	12	BDL	Cloudy sky / windy
24.07.2022	25.07.2022	138	07	28	12	BDL	Rainy / windy
NAQS, 2009			100	60	80	80	

HEOTI VILLAGE:UM10N3			
MONTH	DATE OF SAMPLE COLLECTION	NOISE LEVEL IN dB(A)	
		DAY TIME	NIGHT TIME
		20	20
JULY'22	06.07.2022	42.3	41.6
JULY'22	28.07.2022	42.4	41.6
NOISE POLLUTION (REGULATION AND CONTROL) RULES		55	45

Regular monitoring of Ground Water level is also done in Hewati village for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January). Till date, no depletion in ground water level has been recorded. Ground water monitoring report is enclosed as **(Annexure-XV)**.

All blasting practices are carried out as per the permission of Director General of Mines Safety (DGMS). Ground vibration study is conducted for Hewati village and the results show Peak Particle Velocity (PPV) within the permissible limit.

iv. The Project Proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the Project Proponent shall implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land.

As per the baseline data, there is no grazing land in the core zone of the project.

(h) Corporate Environment Responsibility

i. The Company shall have a well laid down Environment Policy duly approved by the Board of Directors. The Environment Policy should prescribe for standard operating procedures to have proper checks & balances and to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. Also the company shall have a defined system of reporting of non-compliances/violations of

Complied.

Coal India Limited (CIL) has formulated a comprehensive Environment Policy only in March, 2012 followed by a revised policy in December, 2018 approved by CIL Board in its 377th Meeting held on 20th December, 2018 for implementation at CIL and its subsidiaries.

This Corporate Environment Policy 2018 of CIL was subsequently discussed in the 309th Meeting of the Board of Directors of WCL held on 04.03.2019. After deliberation, WCL Board has adopted the policy in principle for implementation in WCL and the same

	<p>environmental norms to the Board of Directors and/or shareholders or stakeholders.</p>	<p>was communicated vide Ref: WCL/BD/SECTT/BM-309/2019/267 dated 15.03.2019.</p> <p>For monitoring of EC/FC norms & conditions, an online MDMS portal (Mine Data Management System) of MoC, GoI is already existing where in the environmental data namely, air quality, water quality; noise quality data are uploaded and regularly updated. In addition to that, compliance report of each condition of EC is also uploaded in the portal and the same is also updated every six months.</p> <p>This management system has the access of CIL & MoC</p> <p>To deal with environmental issues and for ensuring compliance with environmental clearance conditions, At project level Environmental management cell is headed by Sub Area Manager and is assisted by Project Nodal officer (Env).</p> <p>At area level, Area General Manager, Heads the environment cell and is assisted by General Manager (Op) and Nodal officer (Env).</p> <p>At corporate level at HQ, there is full-fledged Environment Department which is headed by General Manager (Env) with a multi-disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.</p> <p>In this regard, it may be mentioned here that at the Company Level a Sustainable Development Cell has been set up with multi-disciplinary officials for pursuing sustainable mining integrating environmental, social and economic factors. This cell is being monitored at the level of Director of the Company and further monitoring is being also done by CIL and MOC at the highest level.</p> <p>Coal India Limited has framed an Environment Policy which is being complied within all the mines. Copy is enclosed as (Annexure-XVI).</p>
ii.	<p>The project proponent shall comply with the provisions contained in this Ministry's OM dated 1st May,2018, as applicable, regarding Corporate</p>	<p>Not Applicable</p> <p>As per the O.M dated 1st May 2018, the provisions of CER are not applicable.</p>

	Environment Responsibility.										
iii.	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.	<p>Complied.</p> <p>The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions is displayed on company website www.westerncoal.in.</p>									
iv.	A separate environmental management cell, both at the project level and company headquarter level, with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	<p>Complied.</p> <p>The Environmental Management cell at corporate level is headed by GM (Env) and assisted by a multidisciplinary team of qualified and trained engineers under the control of Director (Tech.)</p> <p>At Area level, the cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Umrer Sub Area, Staff Officer (Civil), Umrer Area.</p> <p>At Project level, it is headed by Sub-Area Manager, Umrer Sub Area and assisted by Mine Manager/Safety Officer, Umrer Sub Area, Survey Officer, Umrer Sub Area and Nodal Officer (Environment) of the project.</p>									
v.	Action plan for implementing the EMP and environmental clearance conditions shall be prepared and shall be duly approved by the competent authority. The Year-wise funds earmarked for environmental protection measures shall be kept in separate account and not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	<p>Being Complied.</p> <p>The Action Plan for implementing EMP/EIA conditions are in built in the mining plan approved by Company Board.</p> <p>The funds earmarked for environment will not be diverted for other works.</p> <p>Expenditure incurred till date is given below:</p> <table border="1"> <thead> <tr> <th>Financial Year</th> <th>Expenditure (Rs. Lakhs)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>15.44</td> <td>Construction of sedimentation tank</td> </tr> <tr> <td></td> <td>30.99</td> <td>Construction of Effluent Treatment plant and washing</td> </tr> </tbody> </table>	Financial Year	Expenditure (Rs. Lakhs)	Remarks	2016-17	15.44	Construction of sedimentation tank		30.99	Construction of Effluent Treatment plant and washing
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2016-17	15.44	Construction of sedimentation tank									
	30.99	Construction of Effluent Treatment plant and washing									

			ramp	
		2017-18	10.90	Construction of building for housing of CAAQMS
			26.47	Installation of fixed sprinklers for dust suppression including water reservoir, pipeline
		2019-20	21.53	Providing and installation of fixed sprinklers for dust suppression including pipeline along coal stock
		2021-22	2.58	Procurement and installation of Water flow meter
			12.42	Installation of 02 nos of Piezometers with DWLR
			6.61	Procurement of one no of trolley mounted mist/fog generator
		2022-23	34.10	Procurement of one no of truck mounted Mist/Fog Generator
vi.	Self-Environmental Audit shall be conducted annually. Every three years, a third-party environmental audit shall be carried out.	<p>Complied.</p> <p>Internal environmental audit system has been setup in the company. At Area level, a multi-disciplinary committee has been constituted by order of competent authority to review the compliance status through a formatted checklist. Inter-area inspection to review compliance status is being done on quarterly basis. The report of the inspection is put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL.</p> <p>Every three years the third-party assessment of EC compliance will be carried out.</p> <p>The third part assessment of EC compliance has been undertaken through CSIR-NEERI (Expert Agency identified by Ministry). Inspection was carried out on 18/11/2021 in which no non compliances were observed.</p>		
(i)	Statutory Obligations			
i.	Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other	PP has consented to condition.		

	Court of Law, from time to time, and as applicable to this project.	
ii.	This Environmental Clearance shall be obtaining wildlife Clearance, if applicable from the Standing Committee of National Board for Wildlife.	PP has consented to condition. Not applicable as there are no endangered flora/ fauna in core and buffer zone as per baseline data generated for EIA/EMP.
iii.	The Project Proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and water Act, 1974 from the concerned State Pollution Control Board.	Complied Consent to establish along with consent to operate for 4.20 MTPA has been secured from MPCB vide letter no. Format1.0/CAC/UAN No.0000062939/CO-2002001040 dated 25/02/2020 which was valid till 31/03/2021 . Copy enclosed as (Annexure-II). Renewal application for consent to operate for production capacity of 4.20 MTPA was submitted to MPCB through its online portal vides dated 27/01/2021. Consent is approved in the 7 th Consent Appraisal Committee (CAC) meeting held on 14/09/2022 which is valid upto 31/03/2024. Minutes of the meeting is enclosed as (Annexure-III). Subsequently, Application for the Consent to Establish (CTE) and Consent to operate (CTO) for production capacity of 4.50 MTPA was also submitted to MPCB through its online portal. This application is under process at MPCB, Mumbai.
iv.	The project proponent shall obtain necessary permission of the Central Ground Water Authority (CGWA).	Being Complied Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/ORIG/2019/5548) which was valid up to 09/06/2021. Renewal Application is submitted to CGWA on 07/06/2021, which is under process at CGWA, New Delhi. Copy of NOC is enclosed as (Annexure-V).
(j)	Monitoring of Project	
i.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x . Location of the stations shall be decided based on the meteorological data,	Being Complied Four nos. of ambient air quality monitoring stations have been established in consultation with MPCB Officials, considering meteorological data, Topographical features and environmentally and ecologically sensitive targets which are as follows: <ul style="list-style-type: none">• Manager office• Railway Weigh Bridge• Pipardol Village

CCR for Expansion of Dinesh (Makardhokra-III) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

topographical features and environmentally and ecologically sensitive targets in consultation with the SPCB.

Online ambient air quality monitoring station/ stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.

- Welsakara Village




Maximum and minimum concentration of parameters (SPM, PM₁₀, NO_x, SO_x and PM_{2.5}) as per Environmental monitoring report (from April 22 to July 22) is as follows:

Parameters	Core Zone/ Buffer Zone	Permissible limit	Concentration (24 hourly values in µg/m ³)	
			Min	Max
SPM	Core	600	210	360
	Buffer	-	114	159
PM ₁₀	Core	300	135	210
	Buffer	100	65	82
NO _x	Core	120	12	24
	Buffer	80	12	16
SO ₂	Core	120	BDL	13
	Buffer	80	BDL	BDL
PM _{2.5}	Core	-	33	54
	Buffer	60	21	37

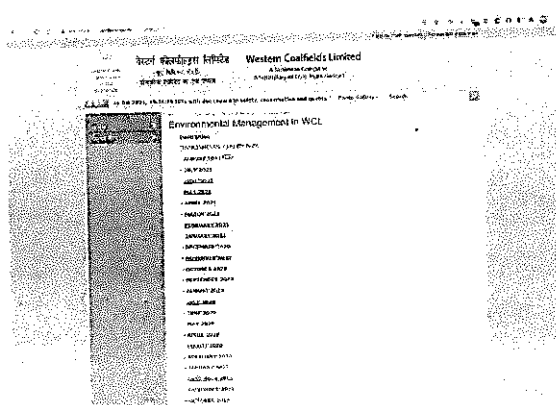
The Monitoring Report in respect of Makardhokra-III OCP is enclosed as **(Annexure-IX)**.

One Online Continuous Ambient Air Quality Monitoring Station has also been set up in consultation with MPCB and is in operation.

Monitoring of heavy metals is being carried out once in six months by CMPDIL and the report of the same is submitted to MOEF & CC Nagpur & Maharashtra Pollution Control Board. Analysis result of the same is tabulated below:

		<div style="text-align: right;">  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Environment Laboratory CMPDI RI-IV, NAGPUR</td> <td style="width: 30%; text-align: center;">Test Report Ambient Air quality monitoring data for heavy metals</td> <td style="width: 20%; text-align: center;">TC-7102</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td>TEST REPORT NO.:</td> <td>RIN/TR/JUNE /JMA20</td> <td>DATE OF ISSUE:</td> <td>27.09.2022</td> </tr> <tr> <td>NAME OF CUSTOMER:</td> <td>GM(ENV), WCLHQI, NAGPUR</td> <td>SAMPLE DESCRIPTION:</td> <td>PIR SAMPLE</td> </tr> <tr> <td>CUSTOMER LETTER REFERENCE NO.:</td> <td>WCLHQ/ENV/14-1/206-220 DATED: 25.03.2022</td> <td></td> <td></td> </tr> <tr> <td>TEST REQUIRED:</td> <td colspan="3">Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)</td> </tr> <tr> <td>NAME OF AREA:</td> <td>UMRER</td> <td>SAMPLING METHOD:</td> <td>ISOP 4</td> </tr> <tr> <td>NAME OF PROJECT:</td> <td>DINESH OC</td> <td>SAMPLING PLAN:</td> <td>LQR 47</td> </tr> <tr> <td>No. of Pages:</td> <td>1</td> <td></td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>Sl No.</th> <th>Name of location</th> <th>Location Code</th> <th>Date of sampling</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MANAGER OFFICE</td> <td>UM30A-1</td> <td>03-05-2022</td> </tr> <tr> <td>2</td> <td>NEAR RAILWAY WEIGH BRIDGE</td> <td>UM30A-2</td> <td>13-05-2022</td> </tr> <tr> <td>3</td> <td>PIPARDOL VILAGE</td> <td>UM30A-3</td> <td>19-05-2022</td> </tr> <tr> <td>4</td> <td>WELSAARA VILAGE</td> <td>UM30A-4</td> <td>11-05-2022</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Parameter</th> <th rowspan="2">Method of analysis</th> <th rowspan="2">Detection limit</th> <th colspan="4">Observed Value</th> <th rowspan="2">National Ambient Air Quality Standard (AAQs), 2009</th> </tr> <tr> <th>UM30A-1</th> <th>UM30A-2</th> <th>UM30A-3</th> <th>UM30A-4</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Arsenic, µg/m³</td> <td>ASTM D 4185</td> <td>0.0007 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>0.005 µg/m³ (Annual average)</td> </tr> <tr> <td>2</td> <td>Lead, µg/m³</td> <td>IS 5182 PART 22</td> <td>0.007 µg/m³</td> <td>0.0081</td> <td>0.0076</td> <td>BDL</td> <td>BDL</td> <td>1.0 µg/m³ (24-hr avg)</td> </tr> <tr> <td>3</td> <td>Nickel, µg/m³</td> <td>ASTM D 4185</td> <td>0.007 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>0.02 µg/m³ (Annual average)</td> </tr> <tr> <td>4</td> <td>Total Chromium, µg/m³</td> <td>ASTM D 4185</td> <td>0.0045 µg/m³</td> <td>BDL</td> <td>0.0048</td> <td>BDL</td> <td>BDL</td> <td>--</td> </tr> <tr> <td>5</td> <td>Cadmium, µg/m³</td> <td>ASTM D 4185</td> <td>0.0015 µg/m³</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>--</td> </tr> </tbody> </table> <p style="text-align: right; margin-right: 50px;">BDL: BELOW DETECTION LIMIT</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;">  SCIENTIFIC ASSISTANT </div> <div style="text-align: center;">  DEEPANSHU SAHNI AUTHORIZED SIGNATORY </div> </div> <p style="text-align: center; margin-top: 10px;">Copy of heavy metal monitoring report is enclosed as (Annexure -XVII).</p>	Environment Laboratory CMPDI RI-IV, NAGPUR	Test Report Ambient Air quality monitoring data for heavy metals	TC-7102	TEST REPORT NO.:	RIN/TR/JUNE /JMA20	DATE OF ISSUE:	27.09.2022	NAME OF CUSTOMER:	GM(ENV), WCLHQI, NAGPUR	SAMPLE DESCRIPTION:	PIR SAMPLE	CUSTOMER LETTER REFERENCE NO.:	WCLHQ/ENV/14-1/206-220 DATED: 25.03.2022			TEST REQUIRED:	Heavy metals (As, Pb, Ni, Cr & Cd) in air samples (ASTM D 4185)			NAME OF AREA:	UMRER	SAMPLING METHOD:	ISOP 4	NAME OF PROJECT:	DINESH OC	SAMPLING PLAN:	LQR 47	No. of Pages:	1			Sl No.	Name of location	Location Code	Date of sampling	1	MANAGER OFFICE	UM30A-1	03-05-2022	2	NEAR RAILWAY WEIGH BRIDGE	UM30A-2	13-05-2022	3	PIPARDOL VILAGE	UM30A-3	19-05-2022	4	WELSAARA VILAGE	UM30A-4	11-05-2022	Sl. No.	Parameter	Method of analysis	Detection limit	Observed Value				National Ambient Air Quality Standard (AAQs), 2009	UM30A-1	UM30A-2	UM30A-3	UM30A-4	1	Arsenic, µg/m ³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL	0.005 µg/m ³ (Annual average)	2	Lead, µg/m ³	IS 5182 PART 22	0.007 µg/m ³	0.0081	0.0076	BDL	BDL	1.0 µg/m ³ (24-hr avg)	3	Nickel, µg/m ³	ASTM D 4185	0.007 µg/m ³	BDL	BDL	BDL	BDL	0.02 µg/m ³ (Annual average)	4	Total Chromium, µg/m ³	ASTM D 4185	0.0045 µg/m ³	BDL	0.0048	BDL	BDL	--	5	Cadmium, µg/m ³	ASTM D 4185	0.0015 µg/m ³	BDL	BDL	BDL	BDL	--
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ii.	<p>The Ambient Air Quality Monitoring in the core zone shall be carried out to ensure the coal industry standards notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to CPCB/SPCB.</p>	<p>Being Complied</p> <p>Ambient air quality is being monitored as per the coal industry standards notified vide GSR 742(E) dated 25.9.2000 & reports are submitted to MOEF & CC Nagpur & Maharashtra Pollution Control Board.</p> <p>Copy of Monitoring Report is enclosed as (Annexure-IX).</p> <p>Monitoring of heavy metals is being carried out once in six months by CMPDIL and the report of the same is submitted to MOEF & CC Nagpur & MPCB. Copy of heavy metal monitoring report is enclosed as (Annexure-XVII).</p>																																																																																																													
iii.	<p>Effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standard notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.</p>	<p>Being Complied.</p> <p>The quality of mine discharge water is monitored fortnightly basis as per GSR 742(E) of dated 25-05-2000.</p> <p>Maximum and minimum concentration of Water parameters as per Environmental monitoring report (from April 2022 to July 2022) is as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Parameters</th> <th colspan="3">Concentration (mg/L) except pH</th> </tr> <tr> <th>Permissible Limit</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 to 9.0</td> <td>7.34</td> <td>7.91</td> </tr> <tr> <td>TSS</td> <td>100</td> <td>24</td> <td>40</td> </tr> </tbody> </table>	Parameters	Concentration (mg/L) except pH			Permissible Limit	Min	Max	pH	5.5 to 9.0	7.34	7.91	TSS	100	24	40																																																																																														
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CCR for Expansion of Dinesh (Makardhokra-III) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

		<table border="1"> <tr> <td>COD</td> <td>250</td> <td>28</td> <td>72</td> </tr> <tr> <td>O & G</td> <td>10</td> <td colspan="2">BDL</td> </tr> </table> <p>Copy of Monitoring Report is enclosed as (Annexure-IX).</p>	COD	250	28	72	O & G	10	BDL	
COD	250	28	72							
O & G	10	BDL								
iv.	<p>The monitoring data shall be updated on the company's website and displayed at the project site. The circular No: J-20012/1/2006-IA.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.</p>	<p>Being Complied</p> <p>Environment monitoring reports are sent to R.O, MoEF, Nagpur and MPCB on regular basis and displayed on the company website also.</p> <p>Reports enclosed as (Annexure-IX).</p> 								
v.	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of groundwater levels shall be carried out four times in a year i.e, pre-monsoon, monsoon, post-monsoon and winter and the ground water quality shall be monitored once in a year and data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change / Regional Office.</p>	<p>Being Complied</p> <p>Regular monitoring of ground water level from existing wells at 40 locations of Buffer zone and 2 piezometers in Umrer Colony is done for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January).</p> <p>Quality of groundwater as per IS: 10500: 2012 is analyzed for 6 locations in Buffer zone once a year.</p> <p>Ground water level and quality monitoring report is sent to R.O., MoEF& CC, Nagpur and CGWA on regular basis.</p> <p>Ground water monitoring report is enclosed as (Annexure-XV).</p> <p>In compliance with the condition stipulated in the NOC for ground water abstraction issued by CGWA, 2 nos of piezometers are installed in core zone for continuous monitoring of ground water level.</p>								
vi.	<p>Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring</p>	<p>Being Complied</p> <p>Water quality of Amb river is monitored regularly as per GSR 742(E) dated 25.05.2000 and report is sent to</p>								

CCR for Expansion of Dinesh (Makardhokra-III) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

date shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.

MOEF&CC/ RO along with the EC compliance report. Analysis result of the same is given below:

Environment Laboratory CMPDI RHV, NAGPUR		Test Report Surface water quality monitoring data			
TEST REPORT NO.	RM/2023/06-22/SW-28	DATE OF ISSUE	28-07-23		
NAME OF CUSTOMER	GOVERNMENT WELCHOL NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE		
CUSTOMER LETTER REFERENCE NO.	WCLN/ENV/24-1/206-220 DATED: 25.03.2022				
NAME OF AREA	JAMRER	SAMPLING METHOD	MOP 1		
NAME OF PROJECT	JAMRER DC	SAMPLING POINT NO.	07		
NO. OF PAGES	1				
NAME OF LOCATION: JVP STATION OF DAM RIVER WITH WIND DISCHARGE					SAMPLING DATE: 11-05-23
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part 13 Electrode Method: 2017	2	7.7	
2	Colour (Pt-Co)	IS 3025 Part 4 Pt-Co Method: 2017	1	2	
3	TDS -mg/l	IS 3025 Part 16 Gravimetric Method: 2017	25	602	
4	Oil & Grease -mg/l	IS 3025 Part 1991 Pt 8A 2009 Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 Part 30 (199) Pt 2009 Winkler's Method	0.1	4.8	
6	D.O.D. (3 days at 20°C) -mg/l	IS 3025 Part 44 (199) Pt 2014	2	2.9	
7	arsenic (As)-mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.005	BDL	
8	Lead (Pb)-mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part 42 AAS Flame Method: 2014	0.01	BDL	
11	Zinc (as Zn) -mg/l	IS 3025 Part 49 AAS Flame Method: 2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.005	BDL	
13	Cadmium (as Cd) -mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.0005	BDL	
14	Fluoride (as F-) -mg/l	APHA, 23rd Edition 4500 F-0 SPADNS Method: 2017	0.02	0.68	
15	Iron (as Fe) -mg/l	IS 3025 Part 51 AAS Flame Method: 2014	0.05	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500 NO ₃ -N UV Spectrophotometric Method: 2017	0.5	2.34	
17	Sulphate (as SO ₄) -mg/l	APHA, 23rd Edition 4500 S-0 Barium Chloride Method: 2017	2	102.38	
18	Chlorides (as Cl-) -mg/l	IS 3025 Part 51 1988 Argentometric Method: 2014	2	164	

BDL: BELOW DETECTION LIMIT

SCIENTIFIC ASSISTANT

DEEPAKSHU SAHU
AUTHORIZED SIGNATORY

Environment Laboratory CMPDI RHV, NAGPUR		Test Report Surface water quality monitoring data			
TEST REPORT NO.	RM/2023/06-22/SW-28	DATE OF ISSUE	28-07-23		
NAME OF CUSTOMER	GOVERNMENT WELCHOL NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE		
CUSTOMER LETTER REFERENCE NO.	WCLN/ENV/24-1/206-220 DATED: 25.03.2022				
NAME OF AREA	JAMRER	SAMPLING METHOD	MOP 1		
NAME OF PROJECT	JAMRER DC	SAMPLING POINT NO.	07		
NO. OF PAGES	1				
NAME OF LOCATION: JVP STATION OF DAM RIVER WITH WIND DISCHARGE					SAMPLING DATE: 11-05-23
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT	
1	pH Value	IS 3025 Part 13 Electrode Method: 2017	2	7.94	
2	Colour (Pt-Co)	IS 3025 Part 4 Pt-Co Method: 2017	1	3	
3	TDS -mg/l	IS 3025 Part 16 Gravimetric Method: 2017	25	904	
4	Oil & Grease -mg/l	IS 3025 Part 1991 Pt 8A 2009 Partition gravimetric Method	2	BDL	
5	Dissolved Oxygen - mg/l	IS 3025 Part 30 (199) Pt 2009 Winkler's Method	0.1	4.2	
6	D.O.D. (3 days at 20°C) -mg/l	IS 3025 Part 44 (199) Pt 2014	2	3.4	
7	arsenic (As)-mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.005	BDL	
8	Lead (Pb)-mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.005	BDL	
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.01	BDL	
10	Copper (as Cu) -mg/l	IS 3025 Part 42 AAS Flame Method: 2014	0.01	BDL	
11	Zinc (as Zn) -mg/l	IS 3025 Part 49 AAS Flame Method: 2014	0.01	BDL	
12	Selenium (Se) -mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.005	BDL	
13	Cadmium (as Cd) -mg/l	APHA, 23rd Edition 11111 AAS/GFA Method: 2017	0.0005	BDL	
14	Fluoride (as F-) -mg/l	APHA, 23rd Edition 4500 F-0 SPADNS Method: 2017	0.02	0.79	
15	Iron (as Fe) -mg/l	IS 3025 Part 51 AAS Flame Method: 2014	0.05	BDL	
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500 NO ₃ -N UV Spectrophotometric Method: 2017	0.5	2.58	
17	Sulphate (as SO ₄) -mg/l	APHA, 23rd Edition 4500 S-0 Barium Chloride Method: 2017	2	124	
18	Chlorides (as Cl-) -mg/l	IS 3025 Part 51 1988 Argentometric Method: 2014	2	192	

BDL: BELOW DETECTION LIMIT

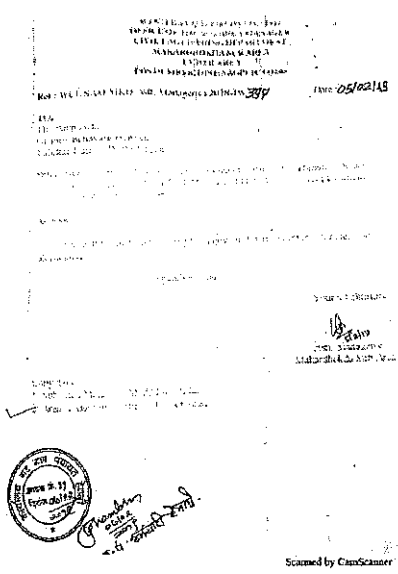
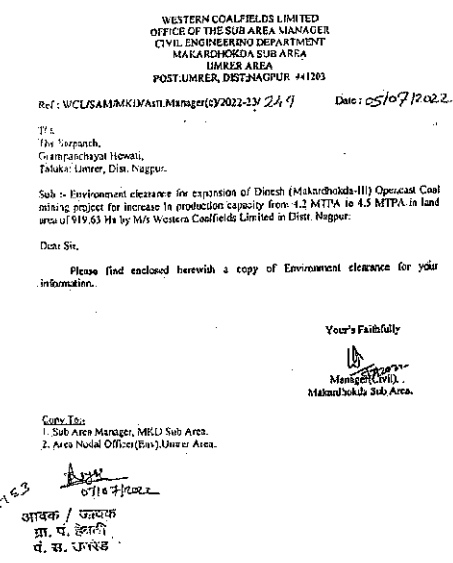
SCIENTIFIC ASSISTANT

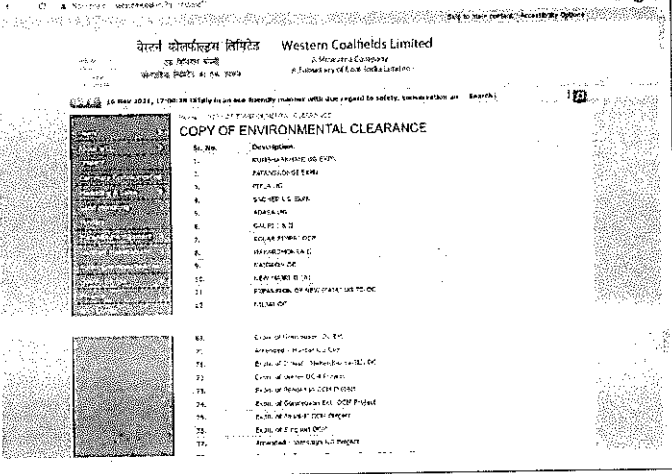
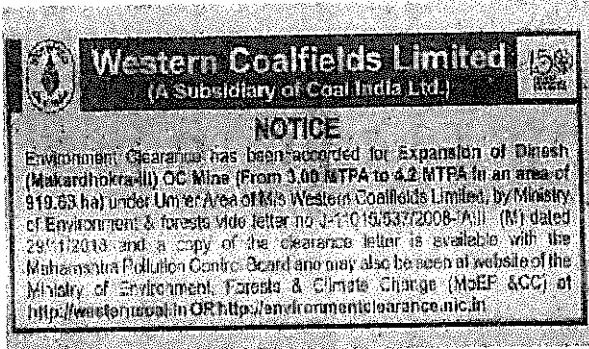
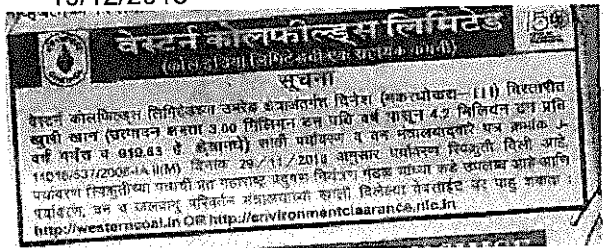
DEEPAKSHU SAHU
AUTHORIZED SIGNATORY

Copy of the surface water monitoring report is enclosed as (Annexure-XVIII).

CCR for Expansion of Dinesh (Makardhokra-III) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

vii.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and Climate Change/ Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to march of the financial years.	<p>Being Complied</p> <p>Six monthly reports on the status of the implementation of the stipulated environmental safeguards are submitted regularly to Regional office of Ministry of Environment, Forest and Climate Change.</p> <p>The six-monthly report for the period from October 2021 to March 2022 is submitted to MoEF&CC on 30/05/2022 through email.</p>
viii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	PP has consented to condition.
(k) Miscellaneous		
i.	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	<p>PP has consented to condition.</p> <p>Efforts are being made for the uses of Solar energy and conventional light bulbs are replaced by LEDs to reduce energy consumption.</p> <p>01 no of 40 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at AGM Office of Umrer area and 01 no of 12 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at Area Hospital, Umrer Area.</p>
ii.	The project authorities shall inform to the Regional Office regarding commencement of mining operations	Complied
iii.	A copy of Environment Clearance shall be marked to concern Panchayat. A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional office, District Industry sector and Collector's office/Tehsildar Office for information in public domain within 30 days.	<p>Complied</p> <p>A copy of Environmental Clearance letter for 4.2 MTPA has marked to concerned Panchayat vide letter no. WCL/ SAM/ MKD/Asst. Manager (C)/ 2018-19/ 397 dated 05/02/19.</p>

		 <p>A copy of Environmental Clearance letter for 4.5 MTPA sent to concerned Panchayat vide letter no. WCL/ SAM/ MKD/Asst. Manager (C)/ 2022-23/249 dated 05/07/2022.</p>  <p>Copy enclosed as (Annexure-XIX).</p>
<p>iv.</p>	<p>The Environmental Clearance shall be uploaded on the company's website. The, compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six</p>	<p>Complied</p> <p>The clearance letter and the six-monthly compliance report had been uploaded on the company's website so as to bring the same in the public domain.</p>

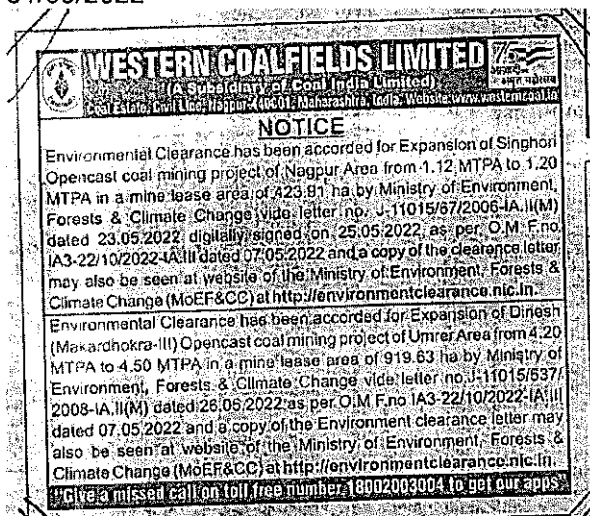
	<p>months so as to bring the same in public domain.</p>	
<p>v.</p>	<p>The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of this clearance, informing that the project has been accorded environmental clearance and a copy of the same is available with the State Pollution Control Board and also at website of the Ministry.</p>	<p>Complied</p> <p>The same had been done after receipt of EC.</p> <p>Advertisements are given in the following News Papers:</p> <ol style="list-style-type: none"> 1. 'The Hitavada' (English daily, Nagpur) dated 19/12/2018  <ol style="list-style-type: none"> 2. 'Lokmat' (Marathi daily, Nagpur) dated 19/12/2018 

CCR for Expansion of Dinesh (Makardhokra-II) OCP from 3.0 MTPA to 4.2 MTPA (increase of 40% w.r.t 3.00 MTPA) in mine lease area of 919.63 Ha of M/s Western Coalfields Limited located in the village Hevti, Tehsil Umrer, District Nagpur (Maharashtra)

3. 'Punya Nagari' (Marathi daily, Nagpur) dated 31/05/2022



4. 'The Times of India' (English daily, Nagpur) dated 31/05/2022



Copy enclosed as (Annexure-XX)

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

Complied


The environmental statement for each financial year is submitted regularly to the MOEF's Regional Office, Nagpur along with the status of compliance of EC conditions as being practiced in all operating mines.

The Audit report for year 2021-22 was submitted online on 28/09/2022. Copy Enclosed as (Annexure-XXI).

		Environment Statement				
Sr No.	UAN No.	Application Name	Submitted Date	Action		
1	MPCB-ENVIRONMENT_STATEMENT-000006653	ENVIRONMENT STATEMENT	13-09-2017	Download		
2	MPCB-ENVIRONMENT_STATEMENT-000011150	ENVIRONMENT STATEMENT	14-09-2018	Download		
3	MPCB-ENVIRONMENT_STATEMENT-000016653	ENVIRONMENT STATEMENT	25-09-2019	Download		
4	MPCB-ENVIRONMENT_STATEMENT-000021750	ENVIRONMENT STATEMENT	26-09-2020	Download		
5	MPCB-ENVIRONMENT_STATEMENT-000028350	ENVIRONMENT STATEMENT	23-09-2020	Download		
6	MPCB-ENVIRONMENT_STATEMENT-000037477	ENVIRONMENT STATEMENT	28-09-2021	Download		
7	MPCB-ENVIRONMENT_STATEMENT-000048223	ENVIRONMENT STATEMENT	28-09-2022	Download		

Vii.	The above conditions will be enforced inter-alia, under the provisions of the Water (Preventions & Control Of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court and any other Court of Law relating to the subject matter.	PP has consented to condition.
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2. PP has informed that there is no court case pending with respect to the EC in any court of law.


 (Dr. P.R. Sakhare)
 17/10/2022
 Scientist 'E'