

वेस्टर्न कोलफ़िल्डस लिमिटेड Western Coalfields Limited

(मिनीरत्न कंपनी) (A Miniratna Company)

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

CIN-U10100MH1975GOI018626



क्षेत्रीय महाप्रबंधक कार्यालय, चंद्रपुर क्षेत्र / Office of Area General Manager, Chandrapur Area

पताः वेकोलि, चंद्रपुर क्षेत्र, पो. बाबुपेठ जि. चंद्रपुर, / Address: WCL, Chandrapur Area, Po- Babupeth, महाराष्ट, पिनः 442403 Dist: Chandrapur, MS, Pin-442403

Email: anoenv.cha@coalindia.in

FAX:- 07172-255287

संदर्भ संख्या:वेकोलि/चक्षे/क्षेमप्र/पर्यावरण/2023-24/ 14/2

दिनांक: 03.11.2023

प्रति.

अतिरिक्त प्रधान मुख्य वन संरक्षक, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय (WCZ), भूतल, पूर्वी विंग, नया सचिवालय अवन, सिविल लाइन्स, नागपुर- 440001

विषय: Six Monthly Report against Compliance of Conditions of Environmental Clearance letter for <u>Bhatadi Opencast Mine</u> of Chandrapur Area, WCL (As on 01.10.2023)

संदर्भ: EC letter No. J-11015/151/2014-IA-II(M) dtd: 13.03.2020

महोदय.

Please find enclosed herewith, Six Monthly Report against Compliance of Conditions of Environmental Clearance letter for **Bhatadi Opencast Mine** of Chandrapur Area, WCL (As on 01.10.2023)

This for your kind information & necessary action please.

(प्रशांत अश्विनकुमार ठाकर) क्षेत्रीय केंद्रस्य अधिकारी (पर्यावरण)

वेकोलि, चंद्रपुर क्षेत्र

संलग्न: यथोपरी

प्रतिलिपी:

- १. प्रादेशिक अधिकारी, महाराष्ट्र प्रदुषण नियंत्रण बोर्ड, उद्योग भवन, प्रथम तल, रेलवे स्टेशन रोड चंद्रपुर ४४२४०१
- २. क्षेत्रीय महाप्रबंधक, वेकोलि, चंद्रपुर क्षेत्र
- महाप्रबंधक (पर्यावरण), वेकोलि-मुख्यालय, नागपुर
- ४. ऑफिस कॉपी

E.M.P. COMPLIANCE REPORT AS ON 01.10.2023

BHATADI OPENCAST EXPANSION PROJECT



WESTERN COALFIELDS LIMITED CHANDRAPUR AREA



WESTERN COALFIELDS LIMITED OFFICE OF THE SUB AREA MANAGER PADMAPUR SUB AREA CHANDRAPUR AREA

Ref. No. WCL/CHA/PSA/BOCM/CIVIL/ 27

Date: - 31/10/2023

For preparation of six monthly report AS on 01.10.2023 data collected from following department of Bhatadi OC Mine of Padmapur sub Area

Survey Officer Bhatadi OCM Manager (Civil) Bhatadi OCM

Mine Manager Bhatadi OCM

Sub Area Manager Padmapur Sub Area

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Sr. No.	Description
1	EC Compliance Report
2	Data Sheet
3	Afforestation Details
4	Coal & OB Production Details

Sr. No.	Description	ANNEXURE's
1	Copy of EC	Α
2	Copy of CTO	В
3	Copy of Environment Monitoring Reports	С
4	Photographs	D
5	Copy of CGWA NOC & 1st Renewal Application	E
6	CSR Activities & Photographs	F
7	Ground Water Monitoring Level Reports	G
8	EC Certification	Н
9	Heavy Metals Report	J
10	Work Order & PUC Copy	K
11	Surface Water Report	L
12	Land reclamation Report	M
13	Illumination Report	N
14	Corporate Environmental Policy	0
15	Advertisement of EC	Р
16	Letter copy to Local Govt. Body	Q
17	Environment Audit	R
18	Intimation Regarding Commencement of Operations	S

PRESENT STATUS OF PROJECT WORK

PART - I

Name of the Project	BHATADI OPENCAST EXPANSION MINE
Location	At-P.O.Bhatadi, Tehsil- Chandrapur, District-Chandrapur, Maharashtra State.
Address for correspondence	Sub Area Manager, Bhatadi Opencast Sub Area, PO: Bhatadi, Distt.: Chandrapur (M.S.) PIN-442404.
MOEF's Clearance No. & Date	J-11015/151/2014-IA-II(M) dtd: 13.03.2020
Period of Status Report	01.04.2023 to 30.09.2023
Date of Submission of Last Report	01.06.2023
Date of Commencement of Project work	1995

STATUS OF LAND ACQUISITION

TYPE OF LAND	REQUIRED AS PER EMP (In Hectares)	ACTUAL AREA ACQUIRED AS ON 31.03.2023 (In Hectares)	
FOREST LAND	0.20	0.00	
OTHER GOVT. LAND	52.25	52.25	
AGRICULTURAL LAND	785.69	785.69	
(20.00 ha. Land provisioned for rehabilitation of Bhatadi			
village is yet to be acquired)			
TOTAL	858.14	837.94	

287.57 Ha. land is acquired under CBA Act 1957 in the yr. 1990

82.15 Ha. Land is acquired under LA Act in the yr. 2007

467.01 Ha. Land is acquired under CBA Act 1957 in the yr. 2001

1.214 Ha. Land is acquired through direct purchase (As On 31.03.2019)

PRESENT STATUS OF LAND USE PATTERN (All Figures in HECTARES)

SL	PARTICULARS	As Per EMP in (Ha)
1	Quarry area	161.32
2	External OB Dumps	142.10
3	Infrastructure	10.90
4	Roads	8.45
5	Township	16.70
6	Embankment	13.00
7	Temporary Top soil dump	40.20
8	Miscellaneous	465.27
	Total	857.94

STATUS OF LEGAL COMPLIANCE

A	Consent under Water (Prevention & Control of Pollution) Act	Consent to operate for the coal production capacity of 1.465 MTPA vide Format 1.0/CAC/UAN No. 00000165617/CR/-2311001779 dt. 22.11.2023 for a period upto 31.03.2024.	
В		Water Cess has been discontinued from July 2017. However, ground water/mine water abstraction charges are being regularly paid to CGWA and also obtained valid NOC.	

С	Environment (Protection Act)	The project has been accorded Environmental	
		Clearance by MOEF for expansion 0.975 to 1.465	
		Million Te./Yr. vide no. J-11015/151/2014-IA-II(M) 13	
		March 2020. (Copy enclosed)	
D	Forest (Conservation) Act	Application for Stage-I clearance of 0.20 Ha forest land	
		is under process.	

II –PART

	AIR POLLUTION CONTROL	STATUS OF ENVIRONMENT
A.	No. of Ambient Air Monitoring Stations	04 Nos.(Fortnightly) & 2 nos. of stations for fugitive emissions
B.	* Details of Locations	Location code
1	Bhatadi Village	CBOA-1
2	Colony	CBOA -2
3	Security Check Post	CBOA -3
4	Kitadi Village	CBOA -4
C.	** Ambient Air Quality Status for the Parameters prescribed by State Pollution Control Board. A1: CBOA-1 A2: CBOA -2 A3: CBOA -3 A4: CBOA -4	Environment Monitoring results for the month of April -2023 to September-2023 is enclosed. This can be seen from the results that all the values are within permissible limits.
D	Fugitive dust monitoring Status	2 stations
	1.CHP	Environmental Monitoring reports for the month April - 2023 to September-2023
	2.Weigh Bridge	enclosed.

^{*}Location of the Sampling Stations have been delineated on the Working Mine Plan Enclosed.

^{**} Detailed Report of Sampling & Analysis of Ambient Air Quality as per the Statute of Standard & Approved Laboratory: CMPDIL's Report for the month of April -2023 to September-2023.

	WATER POLLUTION CONTROL	STATUS	
	WATER TOLLUTION CONTROL	SIAIUS	
A.	No. of Stations & Frequency of	02 (Fortnightly)	
	Monitoring		
B.	*Description of Locations		
	Mine Water Discharge	WI - CBOW-1	
	Workshop ETP Water Discharge	W2 - CBOW-2	
C.	**Average Concentrations of Major	Environment Monitoring results for the month of	
	Pollutants prescribed by State Pollution	April -2023 to September-2023 enclosed.	
	control Board	From the analysis report it can be seen that all	
		parameters are well within the permissible limit.	

Environmental Monitoring Reports for the month April -2023 to September-2023 are enclosed.

A Quantity of Effluent discharged to local water course from each course (in m3/day) 4545 m3/day.	
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^{*} Location of the Sampling Stations have been delineated on the Working Mine Plan Enclosed

* Detailed Report of Sampling & Analysis of Effluent Quality as per the Statute of Standard & Approved.

Laboratory: CMPDIL's Report for the month of April -2023 to September-2023 is enclosed.

	NOISE POLLUTION CONTROL	
A	No. of Noise Monitoring Stations	02 No.
В	* Description of Locations & dB (A) Value	CBON-1 Near CHP,CBON-2 Colony
С	**Average Concentrations of Major Pollutants prescribed by State Pollution control Board	From the analysis report it can be seen that all parameters are well within the permissible limit

- * Location Points have been delineated on the Working Mine Plan: ENCLOSED.
- * Detailed Report of Noise Monitoring as per the Statute to be enclosed: Report for the month of April -2023 to September-2023 is enclosed.

PART – III

STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP AS ON 01.10.2023

SL	PARTICULARS	As per EMP	Current Year 01.04.2023 to 30.09.2023	Progressive
1	Area Excavated (Hectares)	161.52	0.618	175.80
2	Top soil Removed (MM ³)		Nil	2.61
3	Overburden Removed (MM ³)	110.786	4.665	92.041
4	Overburden Back-filled (MM ³)	46.463	Nil	4.50
5	Overburden Dumped (MM ³)	64.323	0.665	83.421
6	Area to be recovered for physical reclamation (Hectares)	212.02	NIL	
7	Area Reclaimed Biologically (Hectares)		NIL	
8	Annual Production : (Coal in M. Te.,OBR in MM ³)	1.465 (Coal) MTe	Coal: 0.341 Million Te. OB: 0.665 mm3	Coal: 16.207 MT

Note E C obtained for expansion 0.975 to 1.465 MTPA Vide ref No J-11015/151/2014-IA-II (M) dtd: 13th March 2020.

<u>AFFORESTATION</u> * (Nos.);

SL	LOCATION	Current Year	Progressive
1	External OB Dumps	14500	62500
2	Embankments		
3	Safety Zone		
4	Back filled areas		
5	Other areas		134675
6	Along the periphery of mine		59500
	TOTAL	14500	256675
Area under plantation (Progressive)		85.27	7 Hectares
No. of plants per Hectare			

Acasia, Shivan, Mango, Jamun, Teak, Bamboo,
Gulmohar, Kranji, Shisoo, Behada, Neem, etc.

Species planted

REHABILITATION & RESETTLEMENT

- 1) Land acquired under CBA act. 1957 in the year 1990 is 287.57 Ha. which includes 278.96 Ha. tenancy land and 8.61 Ha. Govt. Land Employment provided against this land is113 no. as per norm.
- 2) Land acquired under LA act. 1897 in the year 2007 is 82.15 Ha. which includes 78.49 Ha. Tenancy land and 3.66 Ha. Govt Land employment provider against this land till date is 30 nos.
- 3) Land acquired under sec. 9(1) CBA act. 1957 at. 13.9.2011 is 467.21 Ha. which included 0.30 Ha diverted plot area, 426.73 Ha. Tenancy land, 39.98 Ha. Govt. land and 0.20Ha. Forest land. Administrative approval to 409 cases employment/monetary compensation has been approved by competent authority. Till date 299 cases of employment and 07 No. cases of M.C. is given and remaining cases of initiated employment/Monetary compensation is in process.
- 4) Regarding rehabilitation of Bhatadi village TLR survey has been conducted on dated 2 Sep. 2013 but this survey has been stopped by village 2 Sep. 2013

EXPEDITURE: CAPITAL

EXPENDITURE ON POLLUTION CONTROL MEASURES AT BHATADI OCP as on 01.10.2023

I	AIR POLLUTION CONTROL			
A)	BLACK TOPPING OF ROADS/RCC PAVEMENT AT WEIGH BRIDGE			
SL	Head	Project	Amount in Rs. Lakhs	
1	Black Topping of Coal Transport Road from Tirwanja to Padoli	ВОСР	160.00	
2	Black Topping of road from Check post to CHP	BOCP	2.10	
3	Black Topping of surface road near SAM Office	BOCP	2.60	
4	RCC Pavement near Weigh Bridge	BOCP	1.80	
5	Repair of Cement road near weigh bridge	BOCP	3.08	
6	Const. of concrete road from coal stock to CHP	BOCP	5.00	
7	Const. of balance concrete road from CHP to Weigh Bridge	ВОСР	8.00	
8	Strengthening & widening to exiting road including balance concreting of road from CHA check post upto new weigh bridge as part of dust suppression measures at Bhatadi OCM of Chandrapur Area.	ВОСР	12.31	
9	Construction of Concrete haul road at BOCM under PSA.	ВОСР	9.88	
10	Construction of Concrete Platform for stacking oil drum at store at BOCM of PSA.	ВОСР	12.82	
- •	dram at store at Bootin or 1 G/t.			
11	Mechanical Road sweeping M/C	ВОСР	5.77	
		ВОСР	5.77 223.36	
11 B) MI	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE	E TANKERS AS	223.36 ON 01.10.2023	
11 B) MI	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head	E TANKERS AS Project	223.36 ON 01.10.2023 Amount in Rs. Lakhs	
11 B) MI SL 1	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard	E TANKERS AS Project BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92	
11 B) MI SL 1	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area	Project BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02	
B) MI SL 1 2 3	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler	E TANKERS AS Project BOCP BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02 1.00	
11 B) MI SL 1	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler Pipeline &sprinklers at workshop & Coal stock	Project BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02	
B) MI SL 1 2 3	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler Pipeline &sprinklers at workshop & Coal stock Making dust suppression arrangement with realignment of G.I pipeline work with providing rain guns sprinklers at CHP coal stock and weighbridge	E TANKERS AS Project BOCP BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02 1.00	
11 B) MI SL 1 2 3 4	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler Pipeline &sprinklers at workshop & Coal stock Making dust suppression arrangement with realignment of G.I pipeline work with providing rain	Project BOCP BOCP BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02 1.00 28.20	
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11 B) MI SL 1 2 3 4	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler Pipeline &sprinklers at workshop & Coal stock Making dust suppression arrangement with realignment of G.I pipeline work with providing rain guns sprinklers at CHP coal stock and weighbridge area. TOTAL S.I.SHEET CLADDING OF COAL HANDLING PLANT A	BOCP BOCP BOCP BOCP BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02 1.00 28.20 13.62 47.76 2023	
11 B) MI SL 1 2 3 4 5	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler Pipeline &sprinklers at workshop & Coal stock Making dust suppression arrangement with realignment of G.I pipeline work with providing rain guns sprinklers at CHP coal stock and weighbridge area. TOTAL S.I.SHEET CLADDING OF COAL HANDLING PLANT A	Project BOCP BOCP BOCP BOCP BOCP AS ON 01.10.	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02 1.00 28.20 13.62 47.76 2023 Amount in Rs. Lakhs	
11 B) MI SL 1 2 3 4 5 C) G SL 1	Mechanical Road sweeping M/C TOTAL ST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE Head Mist Sprinklers in CHP & Coal stock yard Fixed sprinklers at Weigh Bridge area Conversion of Dumper to Sprinkler Pipeline &sprinklers at workshop & Coal stock Making dust suppression arrangement with realignment of G.I pipeline work with providing rain guns sprinklers at CHP coal stock and weighbridge area. TOTAL S.I.SHEET CLADDING OF COAL HANDLING PLANT A Head Side cladding of CHP	BOCP BOCP BOCP BOCP BOCP BOCP BOCP BOCP	223.36 ON 01.10.2023 Amount in Rs. Lakhs 3.92 1.02 1.00 28.20 13.62 47.76 2023 Amount in Rs. Lakhs 10.56	

	WATER POLLUTION CONTROL		
SL	Head	Project	Amount in Rs. Lakhs
1	Sedimentation pond for mine discharge	BOCP	2.89
2	Development of workshop ETP	BOCP	5.78
3	Additional Sludge bed at W/S ETP	BOCP	0.30
4	Up gradation of mine water sedimentation plant	BOCP	2.43
5	Providing & Fixing oil skimmer at ETP of BOCM	BOCP	4.75
6	Making temp. shed for oil grease, barrel at BOCM	BOCP	7.18
7	Making Settling tank and Pressure Filter	BOCP	15.08
8	Provision of DETP for colony	BOCP	4.29
	TOTAL		20.32
	TOTAL CAPITAL EXPENDITURE (I + II)		303.64

EXPENDITURE: REVENUE (In Rupees)

ACCOUNT HEAD	01.04.2023 to 30.09.2023	PROGRESSIVE
Afforestation	Nil	Rs. 111.21 Lakhs
Air Pollution Control(O & M of 2 MobileTankers)	Nil	Rs. 157.49 Lakhs approx
Water Pollution Control (O & M of ETP, Sedimentation pond)	Nil	Rs. 58.98 Lakhs approx
Monitoring	Rs. 17.00 Lakhs approx	Rs. 81.23 Lakhs approx
Legal Expenses	Nil	Rs. 86.45 Lakhs
Environmental Audit + Water Cess	Nil	Rs. 4.59 Lakhs
Others (JVs by MPCB) & Misc.	Nil	Rs. 9.49 Lakhs
TOTAL		Rs. 509.44 Lakhs

Manager (Civil) Bhatadi OCM

Mine Manager Bhatadi OCM

Sub-Area Mairager Padmapur Sub Area Area Nodal Officer (Env) WCL-Chandrapur Area

PART-IV

Project:- BHATADI OPENCAST EXPANSION PROJECT

Environmental Clearance:- No.J-11015/151/2014-IA-II(M) dt.13th March, 2020

Six Monthly Compliance Report:- 01.04.2023 to 30.09.2023

COMPLIANCE REPORT AGAINST ENVIRONMENTAL CLEARANCE

S.N.	EC CONDITIONS	COMPLIANCE STATUS
(i)	Distance from the mine and OB Dumps shall be 150 m away from river.	The nearest boundary of mine lease is 330 m away from the river.
(ii)	All additional mitigation measures proposed shall be implemented in 1 year of issue of this letter.	Mechanical Road Sweeping Machine has already been procured and deployed as and when required. Pipe conveyor system has been commissioned and is operational. One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions.
(iii)	of native trees with broad leaves along	1) 2020-21 – 22,000 nos. 2) 2021-22 – 37,500 nos.
(iv)	Validity of EC is life of the mine or 30 years whichever is earlier as per EIA Notification, 2006.	Noted
(v)		Consent approved vide Format 1.0/CAC/UAN No. 00000165617/CR/-2311001779 dt. 22.11.2023 for a period upto 31.03.2024.
(vi)	_	Transportation of Coal from CHP is currently being carried out with tarpaulin covered trucks. Pipe conveyor has been commissioned & operational. Most of the coal is being transported through pipe conveyor and road transportation of coal shall be gradually reduced.
(vii)	source, the crusher and in-pit belt	Mist spray arrangement already provided at Crusher and in belt conveyor. 30 no. of mist spray nozzles provided under such arrangement. (Annexure-D)
(viii)	Mitigating measures shall be undertaken to control dust and other fugitive	2 No. of 12 KL & 8 KL water tankers are provided for Coal transportation roads.

	emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, 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	water on Haul Road. 30 no. rainguns are provided 13 no of sprinklers are pro road. 3 no high efficiency raingun 30 nos of mist spray nozz Conveyor at Bhatadi OCM. Avenue Plantation has be	d along Coal Stoc vided along Coa as provided in CH zles provided in	k Yard. l transport P area. CHP and
	arrangement at loading and unloading points, etc.			
(ix)	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.			
(x)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	for livelihood and skill dev	elopment. During ven training at C	g 2015-18,
(xi)	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.	Bhatadi OC mine. Proposal in mine with an approximate	of planting One e 40.00 ha. area h plants have been e and OB dur	Lakh trees as already en planted
(xii)	Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	purposes after treatment. Avis sufficient amount to cater	railability of mine the need.	discharge
(xiii)	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 1.465 MTPA.	CGWA/NOC/MIN/ORIG/2	020/7631 dtd: 12022. Applied for posal were defer port to be submin requisite report d the formal NC	r Renewal red stating tted. Final ts and the
(xiv)	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.		=	

		2021-22	179	
		2022-23	254	
		2023-24 (up to Sept'23)	140	
(xv)	A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRE/NEERI/IIT or any other expert agency identified by the Ministry.	Work has been awarded to (वेकोलि/ मुख्यालय/ पर्यावरण/ 16-J/	44 दिनांक: 24.11.2	2020
(xvi)	Active OB Dump should not be kept barren/ open and should be covered by temporary grass to avoid air born of particles.	Bhatadi OC presently has t	wo External OB come inactive and ntation. D1 Dum the height of 64 m compacted due to of IM such as Dur born particles.	I has been p is active out of total continuous mpers and However
(xvii)	The activities and fund provisions for CER shall be made as per the guidelines issued by the ministry regarding CER on 1 st May, 2018.		nder CSR as per (d out under CSR	
(xviii)	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.	per DGMS guidelines to co arrest fly rocks.		
(xix)	The Project Proponent shall complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department in strict compliance of judgment of Hon'ble Supreme Court dated the 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union Of India and Ors.	No No illegal Mining is carried		Opencast.
(xx)	Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground Water table. The intersecting	CGWA/NOC/MIN/ORIG/2 which is valid upto 12.03.2 dtd: 10.03.2022 and the pro	2022. Applied fo posal were defer	3.03.2020 r Renewal red stating

	commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report	
	Ground water level and quality shall be	Monitoring report on levels and quality of ground water are submitted along with 6 monthly EC Compliance on regular basis. Copy enclosed as Annexure-G
(xxi)	Health Specialist for Regular and Periodical medical examination of the	
(xxii)	Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 th October, 2014 titled "Impact of mining activities on Habitation-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".	Noted
(xxiii)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	Noted Illumination at the mine site is provided as per statute.

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(xxiv)	precautionary measures during mining operation for conservation and protection of endangered fauna, if any,	
(xxv)	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgment dated 8 th January, 2020 has directed the Union of India to impose a condition in the mining lease and a 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". The implementation report of the above said condition shall be sent to the Regional Office of the Ministry.	Noted To be complied with after ceasing of mining operations
(xxvi)	obtained from the SPCB as required	
(xxvii)	shall be developed in more that 40% of the total project area, mainly along the periphery of mine boundary, in	Till date total 256675 nos. plantation has carried out in Bhatadi OC mine. Proposal of planting One Lakh trees in mine with an approximate 40.00 ha. area has already been initiated. 74,000 nos. plants have been planted along periphery of mine and OB dumps from 2020-2023 to mitigate dust pollution.

	shall be as per the CPCB guidelines in	
	consultation with the State Forest Department.	
(xxviii)	develop greenbelt outside the plant premises such as avenue plantation,	Outside mine area plantation has already been developed by WCL Chandrapur Area in degraded forest land with FDCM for 150 ha. Similarly Chandrapur area has contributed 5 crores for development of an APJ Abdul Kalam Ecopark.
(xxix)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	<u>-</u>
(xxx)	The percentage the CER may be atleast 2 times the amount given in the OM dated 1 st May, 2018 recommended by the EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Noted Present expansion is without any increase in capital investment so CER does not applicable.
(xxxi)	Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	Mist. spray system & Side Cladding provided at CHP for control of fugitive emissions. Mobile tankers are deployed on coal transportation road and haul road. Sprinklers and rainguns are provided for coal stock yard. Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions. Transportation of coal through Pipe Conveyor System is followed to eliminate emissions during transportation.
(xxxii)	Transportation of materials by rail/conveyor belt, wherever feasible.	Pipe conveyor has already been commissioned & operational at the mine and would account for the majority of coal transport from the mine.
(xxxiii)	A detailed water harvesting plan may be submitted by the project proponent.	Rain Water Harvesting Structure at Bhatadi OCP has already been installed at an approximate cost of Rs. 2.63 lakhs during 2020-21. Photograph enclosed as (Annexure-D)
(xxxiv)	In case domestic waste water generation is more than 10 KLD, the industry may install STP.	
(xxxv)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	
(xxxvi)	earlier EC dated 19 th March, 2015 in 3	All the conditions of earlier EC dtd: 19th March 2015 are already complied or in compliance and has been
(xxxvii)	All the recommendation of comprehensive study being conducted by NEERI shall be implemented by	Noted and will be complied once the report received.

	project proponent within certain timeline and necessary timeline shall be submitted to Ministry's Regional Office.	
4.1	The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:	
(a)	Statutory compliance	
(i)	clearance under the provisions of Forest	Proposal for Stage-I FC for 0.20 Ha. forest land is currently pending with State Government. No mining shall be carried out without FC.
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	
(iii)	Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the	Noted A detailed 2 year study is being undertaken for conservation of wildlife in the project area in association with reputed Institute NEERI, Nagpur and Wildlife Institute of India, Dehradun. Recommendations of this study shall be implemented on receipt of the same.
(iv)	Consent to Establish/Operate under the	
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	NOC has been approved vide NOC No. CGWA/NOC/MIN/ORIG/2020/7631 dtd: 13.03.2020 which is valid upto 12.03.2022. Applied for Renewal dtd: 10.03.2022 and the proposal were deferred stating that IAR with modeling report to be submitted. Final renewal applied along with requisite reports and the application has been approved and the formal NOC letter awaited.
(vi)	_	Solid/hazardous waste generated in the Bhatadi OC is disposed via MPCB authorized agency to CHWTSDF.
(b)	Air quality monitoring and preservation	

(i)	monitoring stations as prescribed in the statue 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 NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the	One CAAQMS has been commissioned in adjoining mine of Durgapur OCP on 11.10.2020 and data is submitted to MPCB on regular basis. Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions. Monitoring of Heavy Metals is also carried out every six monthly and reports are submitted to RO, MoEF&CC vide Email (Annexure-J)
(ii)	the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution	Last such report on Heavy metals submitted is enclosed as Annexure-J
(iii)	permitted by road shall be carried out by covered trucks/conveyors. 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 of PM ₁₀ /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	Mist. spray system & Side Cladding provided at CHP for control of fugitive emissions. Mobile tankers are deployed for coal transportation road and haul road. Sprinklers and rainguns are provided for coal stock yard. It is proposed to use MgCl2 as an additive to water for dust suppression. Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions.
(iv)	carried out as per the provisions and route envisaged in the approved Mining	Coal transport roads are regularly wetted by spraying

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	construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	
(v)	control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after	Vehicles complying with RTO rules which include owing PUC certificate are only engaged in coal transportation. Sample copy of Work Order indicating compliance of various Laws including imposed by RTO and few valid PUC of vehicles engaged for reference (Annexure-K)
(vi)	breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyor shall be fully covered to avoid air borne dust. Side cladding all along the conveyor	Mist. spray system & Side Cladding provided at crusher for dust suppression. Sprinklers and rain-guns are provided around coal stock yard & crusher. Drills are fitted with dust extractor. Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions.
(vii)	with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable	Mist. spray system & Side Cladding provided at CHP for control of fugitive emissions. Mobile fogger has been proposed for Bhatadi CHP area for conservation of water. It is proposed to use MgCl2 as an additive to water for dust suppression.
(c)	Water quality monitoring and preservation	
(i)	water, workshop effluent) shall be	
(ii)		The Monitoring data is uploaded regularly on company website www.westerncoal.in and at Sub Area Manager Office.
(iii)	level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during	Monitoring Report enclosed as Annexure-G

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	four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.	
(iv)	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.	Monitoring of water quality upstream and downstream of water bodies is carried out once in six months and reports are submitted to P.O. MoFF, &CC vide amail.
(v)	Rainwater harvesting shall be	Rain Water Harvesting at SAM Office, Bhatadi OCP has been constructed at an approximate cost of Rs. 2.63 lakhs.
(vi)	ponds in adequate numbers and 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 dump shall be avoided by providing adequate channels for flow of silt into the drains/ ponds so constructed shall be regularly de-silted 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 and green belt development and other industrial use. 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.	At Bhatadi OCP one retaining wall exists inside mine of length 80 mtr. below view point. Catch drains are provided to collect runoff and siltation from OB Dumps as expansion project commences additional toe wall shall be constructed as and when required.
(vii)	measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after	Rain Water Harvesting at SAM Office, Bhatadi OCP has been constructed at an approximate cost of Rs. 2.63 lakhs. Artificial ground water recharge is being done through one no. of rain harvesting pond (size 110 x 60 m). There is no shortage of water in the nearby villages. Their ponds remain full round year.

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(viii)	CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under	STP of Capacity 50KLD provided for Colony.
(ix)	after siltation, shall be utilized for	
(x)	mining operations, considering the	As embankment of suitable dimension (20m on top x 3m height above HFL) has been constructed along river boundary with hard material & river front side has been stabilized with plantation.
(xi)	1	Noted Already a similar study in nearby coalfield in WCL has been carried out. As directed, similar study will be completed in next 6 months
(d)	Noise and Vibration monitoring and prevention	
(i)	control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in	Workers engaged in drilling and blasting operations, operation of HEMM are provided with personal protective equipments like earplug/ear muffs. Awareness program for the users is periodically conducted by the safety department of unit and the

		progress of such progress in use of such accessories is
	provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	
(ii)	practiced in order to mitigate ground	Controlled blasting is being done with the help of shock tube. Blasting hours are fixed and blasting is carried out with due precautions. Vibrations are recorded using Vibrometer and results are within limit.
(iii)	out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises,	Monitoring results are within permissible limits and reports are regularly submitted to regional office of MoEFCC vide email at eccompliance-mh@gov.in and
(e)	Mining Plan	
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	Already being done & will continue to be done
(ii)	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).	Already being done & will continue to be done
(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	
(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	I I A II I I W H / day has been installed at Bhatadi () I i in I
(f)	Land reclamation	
(i)	area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring	Land Reclamation report of Bhatadi OC for the year 2021 is enclosed as Annexure-M

(ii)	preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agriculture/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.	Till 31.03.2023, 4.50 Mm3 of overburden has been backfilled in the quarry and the same is being continued. As a part of progressive mine closure plan till date 80.27 Ha of land has been covered with plantation (242175 No.s). From 2020-21 onwards 1.00 lakh nos. trees will be planted along mine boundary in a phased manner with in 3 years period to increase the green cover. 22000 plants have been planted in 2020-21 along mine boundary. Plantation of 37500 nos. have been planted in 2021-22 along periphery for green belt development.
(iii)	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 MOEFCC/RO.	Present status as on date: Excavated Area 162.096 Ha, backfilling done with 3.909 Mm3 for making Haul roads etc. external OB dumping (including top soil) = 71.363 Mm3 (174.788 Ha) Infrastructure = 14.45 Ha green
(iv)	of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall	Moreover, MOC & MoEF &CC has jointly agreed for a detailed scientific study on this issue. As such, till an informed decision is arrived, the condition may be kept on hold.
(v)	Further, it may be ensure that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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. The other overburden dumps	Noted.

	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 the Ministry of Environment, Forest and Climate Change/Regional Office.		
(vi)	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 Hon'ble Supreme Court with regard to acquiring grazing land.	Noted	
(g)	Green Belt		
(i)	precautionary measures during mining operation for conservation and protection of endangered/endemic	Recommendations of this study shall be implemented on receipt of the same.	
(ii)	of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt		
(h)	Pub Hearing and Human Health issues		
(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 and it's RO on 6 monthly basis.	Noted Illumination at the mine site is provided as per statute Monitoring is done on monthly basis. Report shall be submitted to Ministry and it's RO along with 6 monthly EC Compliance. Copy of last 6 months enclosed fo your reference as Annexure-N	
(ii)		Periodical medical examination of 20% of the workforce is being done annually. Data is as follows Year PME	

	provisions of Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	2021-22 2022-23 2023-24 (upto Sept.2023)	254 179 254 140
(iii)	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	Masks are provided as Training and informate Personnel (including of	
(iv)	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 down in the R & R policy of the Company/State government/Central Government as applicable.		Noted
(v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-1A.II(M) dated 29th October, 2014, titled 'impact of mining activities on habitations- issues related to the mining projects where in habitations and villages are the part of smileys areas or habitations and villages are surrounded by the mine lease area'.		Noted
(i)	Corporate Environment Responsibility		
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	This is an existing min investment so CER is	ne with expansion without capital not applicable.
(ii)	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to	Policy which is alread (Annexure-O)	

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	have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have a defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stakeholders	
(iii)	project and company headquarter level with qualified personnel shall be set up	At corporate level the Environmental issues are dealt by Director(Tech) P&P and GM(Env.). At area level it is headed by General Manager (Opr) & Area Nodal Officer. At project level, by Sub Area Manager through Nodal officer of the project.
(iv)	responsibility matrix of the company	Annual Fund is allocated to Environment Department under Capital and Revenue Budget which is used solely for implementation of Environmental Activities under EMP.
(v)	Self environmental audit shall be conducted annually. Every 3 years third party environmental audit shall be carried out.	
(j)	Miscellaneous	
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it in at least two local newspapers of the district or state, of which one shall be in vernacular language within 7 days and in addition this shall also be displayed in the project proponent's website permanently	1. Chandrapur Mahasagar (Marathi) dtd: 17.03.2020 2. Mahavidarbha (Marathi) dtd: 17.03.2020 However same has been uploaded on the WCL website (Annexure-P)
(ii)	clearance shall be submitted by the	(Annexure-Q)

	display the same for 30 days from the date of receipt.	
(iii)	environment Clearance conditions,	Compliance of EC Conditions along with monitored data is being submitted to MoEFCC Regional office vide email and the same is being uploaded on Parivesh
(iv)	criteria pollutants level namely; PM10, SO2 and NOx (ambient levels) or critical sectoral parameters, indicated for the	
(v)		
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's 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'.	Noted.
(vii)	environmental statement for each financial year in Form-V to the concerned state pollution control board as prescribed under the Environment	Environment Statement for 2022-23 was submitted online on MPCB portal vide UAN No. MPCB-ENVIRONMENT_STATEMENT-0000060809
(viii)	The project authorities shall inform to the Regional office of the MoEFCC regarding commencement of mining operations.	Informed the Regional office of the MoEFCC regarding commencement of mining operations vide email. (Annexure-S)
(ix)		Conditions stipulated by State Pollution Control Board, here MPCB via its Consent to Establish/Operate are adhered.
(x)	The project proponent shall abide by all	Noted

	the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	
(xi)	No further expansion or modification in the plant shall be carried out without prior approval of the ministry of Environment, Forests and Climate Change.	
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under provisions of Environment (Protection) Act, 1986	Noted
(xiii)	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	
(xiv)	The ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions	
(xv)	should extend full cooperation to the	Full cooperation will be extended to the officer(s) of MoEFCC Regional office, Nagpur regarding monitoring of compliance of conditions stipulated in the
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules and any other orders passed by the Honorable Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter	Noted
5	The project proponent shall abide by all the commitments and recommendations made in EIA/EMP report and also that during the presentation to EAC. All the	Noted

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	commitments made on the issues raised during public hearing shall also be implemented in the letter and spirit.	
6	The proponent shall obtain all necessary clearances/ approvals that may be required before the start of the project. The ministry or any other competent authority may stipulate any further condition for Environmental protection.	Noted
7	Any appeal against this environmental clearance Shall lie with the National Green Tribunal, if preferred, with in a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted
8		However, production of the mine is done within EC limits. No illegal mining activities are carried out at the Bhatadi Opencast mine.
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 there respective Department of Mining and Geology, in strict compliance of judgement of Hon'ble Supreme Court.	Noted Mining is done in compliance of all the laws as applicable. No compensation has been imposed by the State Government
10	This Environment Clearance shall not be operational till such time the project proponent complies with the above said judgement of Hon'ble Supreme Court, as applicable, and other statutory requirements.	Noted
11	This issues in suppression of the earlier EC granted vide letter dated 19 th March, 2015.	

Ave Bahurdolm Manager (Civil) Bhatadi OCM

Mine Manager Bhatadi OCM

Sub Area Manager Padmapur Sub Area

Area Nodal Officer (Env) WCL-Chandrapur Area

Monitoring the Implementation of Environmental Safeguards

Ministry of Environment & Forests-Regional Office (W), Bhopal.

Monitoring Report

DATA SHEET

1. Project type :River- valley/Mining/ : MINING Industry/Thermal/Nuclear/Other(Specify)

2. Name of the Project : BHATADI EXPANSION

OPENCAST PROJECT

3. Clearance letter(S)/OM No.& Date : J-11015/151/2014-IA.II(M).dt.13.03.2020

4. Location

a) District : CHANDRAPUR b) State : MAHARASHTRA

c) Latitude/Longitude : Lat.20 °- 2'- 45" to 20 -5"-45" (N)

Long. 79 -13'-10" to 79-16' -55" (E)

5. Address for Correspondence

a) Address of concerned project : Chief General Manager
Project Chief Engr. (with pin code) : Western Coalfields Limited
& Tel./telex/Fax : Chandrapur Area- P.O. Babupeth

442404- (Maharashtra)

07172-255522...25,256715,256124

Fax-07172-255287

b) Address of Executive Project Engineer/

Manager (with pin code) : Sub Area Manager

Padmapur Sub Area- W.C.L Village-Bhatadi, Tehsil-Bhadravati Dist-Chandrapur (Maharashtra) Ph. 07172-231009/231008

6. Salient Features

a) Of the project : Enclosed as A

b) Of the Environmental :

Management Plans

7. Break up of the project area : 847.57 Ha.(Final) ;(847.57-.20=847.37 ha E. C.)

8. Break up of the project affected population : 720 nos as per NGO survey with enumeration of those losing houses/ dwelling units only, agricultural land only, both dwelling units & Agricultural land &

Landless labourers/artisan

a) SC-ST/ADIWASI : 863(Tribals)

b) Others : 637

(Please indicate whether these figures are based: As per 2001 Census/ Latest Available record on any scientific and systematic survey carried out or only provision figures, if as survey is carried out give details and years of Survey)

9. Financial details

a) Project cost as originally planned and subsequent revised estimates and year of price reference : Rs. 94.8060 Crores (Incremental for expansion Rs.105.53 crores only)

b) Allocation made for environmental project management plans with item wise and year wise break-up

: Rs. 6.84 Crores for expansion

c)Benefit cost ratio/Internal Rate of Return and the year of assessment : 100 % Capacity 85 % Capacity IRR 6.83% 4.47%

(June-1998)

d)Whether $\mathbb O$ includes the cost : Yes

of environmental management as shown in the above

e)Actual expenditure incurred on : Rs.264.71 Crores (as on 30.09.2022) the

Project so far (For existing Bhatadi OCP)

f)Actual expenditure incurred on the environmental management plans : Capital-Rs. 303.64 Lakhs : Revenue –Rs. 509.44 Lakhs

(as on 30.09.2022) on existing BOCP

10. Forest land requirement

a) The status of approval for diversion of : NOT APPLICABLE

forest land for non-forestry

b) The status of clearing felling : NOT APPLICABLE

c) The status of compensatory : NOT APPLICABLE

afforestation, if any

d)Comments on the viability & : NOT APPLICABLE

sustainability of compensatory

afforestation programme in the light of

actual field experience so far

11. The status of clear felling in non-forest : NOT APPLICABLE

areas (such as reservoir, approach roads), if any with quantitative information

12. Status of construction

a)Date of commencement(Actual and/

or planned)

: MAY 1995 (Original BOCP)

b)Date of completion (Actual and /or

planned)

: Not Planned at present

13. Reasons for the delay if the project is

yet to start.

: Delay in land acquisition

14. Dates of site visits

a)The dates on which the project was monitored by the Regional Office on previous occasions, if any.

: ----

b)Date of site visit for this monitoring report :-----

15. Details of correspondence with project authorities for obtaining action plans information on status of compliance to safeguards other than the routine letters for logistic support for site visits)

Sub Area Manager
Padmapur Sub Area- W.C.L
Village-Bhatadi, Tehsil-Bhadravati
Dist-Chandrapur (Maharashtra)
Ph. 07172-231009/231008

(The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently)

Manager (Civil) Bhatadi OCM

Mine Manager Bhatadi OCM ub Area Mahager Padmapur Sub Area Area Nodal Officer (Env) WCL-Chandrapur Area

SALIENT FEATURES OF THE PROJECT

Name of project : Bhatadi Opencast Expansion Project

1.465 Million Te./Year.(Grant EC for expansion 0.975 to 1.465 MTPA has been obtained vide letter No.J-11015/151/2014-IA-II(M) dt.13th March, 2020

Capacity of project:

Capital Investment : Rs.303.64 Crores

Life of project : 24 years from 2012-13 (as per MCP approved

date 28.01.2013) 50 years from 2012-13 (as per

revised MCP approved date 10.11.2017)

Land Required : 858.14 Ha.(As per EMP)

Quarry/Excavation Area. : 161.52 Ha. (as per EMP)152.79 As on 31.03.2022

No. of Seams/Seam thickness : 1/17.0 Mt. avg

Depth of Working (Maximum) : 139.00mt

Total Coal Production : 0.341 MTe upto 30.09.2023

Total Over Burden removal : 0.665 MM3 upto 30.09.2023

Stripping Ratio : 1: 6.708 t/ cum

Environment Provision Including R & R (original)

: Rs.7.394 Crores

DETAILS OF PLANTATION AT BOCM

YEAR	LOCATION	TREES PLANTED	AREA IN Ha
1997-98	Vacant land in colony	50000	8.61
1998-99	Vacant land in colony	50000	14.50
1999-2000	OB dump slope	28000	10.05
2000-01	Avenue plantation	7000	4.42
2002-03	Opp/ side of CHP	5000	2.83
2004-05	Behind C& D in colony	10000	3.02
2005-06	Vacant land	10000	4.00
2010-11	OB dump slope	10000	4.00
2011-12	Ob Dump slope	10000	4.00
2016-17	Behind filter plant	1850	0.74
2017-18	Behind colony	500	0.20
2018-19	Avenue plantation in new colony, Dispnsary	325	0.10
2019-20		0	0.00
2020-21	Along the peripheri of mine	22000	8.80
2021-22	Along the peripheri of mine	37500	15.00
2023-24	Douth East OB Dump D1	14500	5.00
TOTAL		256675	85.27

COAL AND OVERBURDEN PRODUCTION AT BHATADI OPENCAST MINE FOR LAST 5 YRS

(Since Last Environment Clearance dtd: 13.03.2020)

Year	Production (MTPA)	Overburden MTPA	
rear		Departmental	HOE
2015-16	0.712	2.664414	
2016-17	0.875	2.578902	4.399808
2017-18	0.639	2.500	5.589
2018-19	0.975	2.498	4.60
2019-20	1.465	2.037	1.34
2020-21	1.231	2.037	2.173
2021-22	1.302	2.003	9.741
2022-23	1.465	1.720	4.715
2023-24 (upto 30.09.2023)	0.341	0.665	Nil



No. J-11015/151/2014-IA-IJ(M)

Government of India Ministry of Environment, Forest & Climate Change

(Impact Assessment Division)

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Jodira Paryayaran Bhayan, Jor Bagh Road, New Delhi-110 003

Dated: 13th March, 2020.

To,

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

Nagpur - I (Maharashtra)

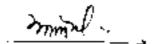
Email: gorenvironment.ycl@nic.in: wglenv@yahoo.in

Sub: Expansion of Bhatadi Opencust Coal Mine from 0.975 MTPA to 1.465 MTPA (Peak) of M/s Western Coalfields Limited in mine lease area of 847.37 ba, located in Village Bhatadi, District Chandrapur (Maharashtra) Environment Clearance(EC) - reg.

Sit,

This has reference to your online proposal no. IA/MH/CMIN/72758/2018 dated 1st March, 2018 on the above-mentioned subject.

- 2. The Ministry of Environment, Forest and Climate Change has considered the proposal is for Environmental Clearance for Expansion of Bhatadi Opencast Coal Mine from 0.975 MTPA to 1.465 MTPA (Peak) of M/s Western Coalfields Limited in mine lease area of 847,37 ha, located in Village Bhatadi, District Chandrapur (Maharashtra).
- 3. The proposal was considered by the EAC in its 52° meeting held on 24th January, 2020. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under:-
- (i) The project is located in Bhatadi village, in Wardha Valley Coalfields in Chandrapur district. The nearest rail head is Tadali which is about 8 to 9 km away from the mine and Chandrapur Station about 15 km away from the mine. Both the stations are on the main line of Central Railway.
- (ii) The project area falls in Survey of India Topo Sheet No.55 P/08 with geographical coordinates ranging from 20° 02′ 27″ 20° 04″ 25′ F and longitudes 79° 15′ 18′ -79° 17′ 35′ N



- (iii) Coal linkage of the Bhatadi OC mainly lies with Thermal Power Plants of MAHAGENCO. In addition to this coal from the mine will be provided to other miscellaneous consumers.
- (iv) No joint venture cartel has been formed to operate the mine. Bhatadi OC Expansion Mine Project has been proposed to be operated solely by the M/s WCL.
- (v) Project does not fall in the Critically Polluted Area (CPA), where the MoEFCC vide its OM dated 13th January, 2010 has imposed moratorium on grant of Environment Clearance.
- (vi) Direct employment to about 474 personnel, it will provide further employments to land losers. Administrative approval for 409 of employment in WCL has been accorded and out of 409, 339 nos. has already been provided employment.
- (vii) The project is reported to be beneficial to bridge the gap between demand and supply of non-coking coal for the power houses and other bulk consumers of western region as well as southern part of the country.
- (viii) The last EC for Bhatadi OC coal mine from 0.65 to 0.975 MTPA in a total lease area of 847.37 ha with no forest land, was accorded vide letter dated 19th March, 2015.
- (ix) Erai River flow in the area of Bhatadi OC Expansion. The proposal for Erai river diversion has been submitted to CDO, Nasik and further action will be taken as per the design of CDO, Nashik & subsequent approval of the State Irrigation Department.
- (x) The existing Bhatadi Expansion OC mine has been divided into two quarries namely, quarry-I and quarry-II. Presently quarry-I is being worked whereas area of quarry-II is virgin. The geo-mining parameters of the project are as under: -

S.N	Particulars	Quarry-I	Quarry-II	Total	
1	Area of the Quarry				
a)	On floor (ha)	50.870	33.875	84.745	
b)	On surface (ha)	88.92	72.60	161.52	
2	Depth (m)				
a)	Initial	33	53		
b)	Final	150	150	-	
3	Average gradient of Seam	1 in 6	l in 6		
4	Average thickness of seam (m)	17	17		
5	Average strike length (m)	800	700		
6	Width on surface (m) (Dip Rise)	700	850		
7	Width on floor (m) (Dip Rise)	500	600	-	
8	GCV (k Cal/ kg) (Overall)		4504 (G10)		
9	Balance Mineable reserves (Mt) as	3.54	9.27	12.81	
	on 1/4/2017				

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10	Total OB including Access Trench (Mm ³) as on 1/4/2017	19.78	51.07	70.85	
	Average Stripping ratio in m7t, as			[
11	on 1/4/2017	5.59	5.51	5.53	

(xi) Last 5 years production is as given below (All figures in Million Tonnes per Annum)

Year	Coal Production	EC capacity
2019-20 (Upto 31.10.2019)	0.970	0.975
2018-19	0.975	0.975
2017-18	0.639	0.975
7016-17	0.875	0,975
7015-16	0.71	0.975
2014-15	0.71	0.975

The land usage pattern of the project is as follows:

Pre-mining land use details

Γsī.	Particulars	Fenancy	Govt.	Forest	Total !
No.		Land	<u> Land</u>	Land	.]
l	Land Already acquired by existing	785.69	52.25	0.00	837.94
i	Bhatadi Expansion OC Mine (ba)				
	Land für Bhatadi Village Rehabilitation	9.43	0.0	0.0	9.43
ļ	to be Acquired (ha)		L] .
!	Total	795.12	52.25	0.0	847.37

Post Mining land use details

	Land use during	Land use (ha)				
S.N	mining	Plantation	Water Body	Public use	Undisturbed	Total
1	Backfilled Area	50 00	38.92	0.00	0.00	88.92
2	Excavated Area	0.00	72,4	0.00	0.00	72.40
3	Embankment Area	13.00	0.00	0.00	0.00	13.00
4	External OB dump	142.10	0.00	0.00	0.00	142.10
5	Colony, Infrastructure etc.	6.00	0.00	31.60	0.00	27.60
6	Miscellaneous (Blasting zone, river diversion, power line diversion & rationalization	50.00	0.00	0.00	435,47	485.47
7	Road	3,00	0,00	5.45	0.00	8.45
Total	(A)	264.10	111,32	27.05	455,47	837.94
Land	for Bbatadi Village	0.0	[0.0	9.43	0.0	9.43

Rehabilitation to be Acquired (B)					
Grand total (A + B)	264.10	111.32	36.48	435.47	847.37

- (xii) Total geological reserve reported in the mine lease area is 45.714 MT with 23.566 MT mineable reserve, out of which 12.81 MT of reserve is extractable reserve with extraction intensity of 95 %.
- (xiii) Mining Plan including the Mine Closure Plan for further expansion of the mine for increasing the production capacity from 0.975 MTPA to 1.465 MTPA within the existing land area and without any capital investment has been approved by the WCL Board in its 293rd meeting held on 31/10/2017 vide WCL/BD/SECTT/BM-293/2017/936 dated 10/11/2017.
- (xiv) The method of mining would continue to be opencast with Shovel-Dumper combination
- (xv) There is two external OB dump with Quantity of 69.708 Mm3 in an area of 142.10 ha with height of 60 m and 1 internal dump with Quantity of 53.75 Mm3 in an area of 88.92 ha. Out of this 88.92 ha, 50 ha would be biologically reclaimed and 38.92 ha would be partially backfilled and converted into water body.
- (xvi) The final mine void would be in 111.32 ha with depth of 150 m.
- (xvii) Total quarry area is 161.32ha. Out of total quarry area of 161.32ha, 88.92 ha would be backfilled and reclaimed. Out of which 50 ha area shall be reclaimed with plantation. A void of 111.32 ha with depth 150 m which is proposed to be converted into a water body.
- (xviii) The balance life of mine is 8 Years as on 01.04.2019
- (xix) Transportation: Coal transportation in pit by dumpers, surface to siding by dumpers and loading at siding by pay loaders. Pipe conveyor system for coal transportation is in advance stage of commissioning.
- (xx) The details of R&R activities, carried out for the existing project is as follows: -
- a) Land acquired under CBA Act, 1957 in the year 1990 is 287.57 ha which includes 278.96 ha tenancy land and 8.61 ha Govt land. Employment provided against this land is 113 no. as per norm.
- b) Land acquired under LA act 1897 in the year 2007 is 82.15 ha which includes 78.49 ha Tenancy land and 3.66 ha Govt. land. Employment provided against this land till date is 30 nos.
- c) Land acquired under section 9(1) CBA Act, 1957 at 13.9.2011 is 467.21 ha which included 0.30 ha diverted plot area, 426.73 ha. Tenancy land 39.98 ha, Govt. land and 0.20 ha forest land. Administrative approval to 409 cases employment/monetary

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- compensation has been approved by competent authority. Till date 284 cases of employment and 07 No. cases of M.C. is given and remaining cases of initiated employment/Monetary compensation is in process.
- (xxi) Total capital cost of the project is Rs.304.5162 Crores as per PR and no additional capital is required for the present proposal. Cost of Production is Rs.1300.98 per tonne, CSR cost will be Rs. 2 per tonne, R&R Cost will be Rs.79.79 Crore and the capital Environmental Management cost will be Rs. 0.9709 crores.
- (xxii) NOC for withdrawal of groundwater from CGWA has been applied vide letter No. WCL/ENV/HQ/20-J & 17-U/263 dated 13.06.2016. NOC for abstraction of ground water for Bhatadi OC have been recommended by CGWB on 11.10.2019. Formal issuance of NOC letter awaited.
- (xxiii) Public Hearing conducted on 13.09.2019 at WCL Durgapur Auditorium, Durgapur, Ta. Dist. Chandrapur, Maharashtra State.
- (xxiv) Following issues has been raised during the Public Hearing held for Bhatadi OC Expansion Project for increase in Coal production capacity from 0.975 MTPA to 1.465 MTPA within existing EC area of 847.37 Ha. Detailed pointwise compliance report has been submitted to MPCB
 - a. Rehabilitation of Bhatadi and Payali Village.
 - b. Balance land acquisition
 - c. Coal Quality
 - d. Land Compensation
 - e. Provision of Employment in lieu of Land acquisition.
 - f. Pollution Control Measures to be adopted.
 - g. Plantation
 - h. CSR works
 - i. Installation of RO Plant for Drinking Water
- (xxv)Total afforestation plan shall be implemented covering an area of 255.64 ha at the post-mining. Density of tree plantation is 2500 trees/ ha of plants.
- (xxvi) There is no court cases/violation pending with the project proponent
- (xxvii)The existing Bhatadi OC has opened Escrow Account against the existing provisions and till 2018-19, Rs.33.2519 Crores have been deposited in the said Escrow Account
- (xxviii) Availability of ground water has been reported to be varying between 3.3 m 13.28 m during pre-monsoon season and between 0.10 m to 13.15 m during post-monsoon season. Total water requirement for the project has been reported to be 222 KLD

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- (xxix) One composite seam with thickness ranging between 15.78 20.83 meters has been reported to be workable. Grade of coal is G-10, stripping ratio 1:5.53, while gradient is 1 in 6.
- (xxx)Method of mining envisages opencast with shovel-dumper combination
- (xxxi) Afforestation plan over a total area of 264.10 ha has been proposed to be implemented by the end of mining operations with density of 2500 plants per ha. It is further mentioned that implementation of the Progressive Mine Closure Plan is being taken up by the PP as per the approved Plan and there is no deviation from the approved Plan
- (xxxii)The PP has reported no court cases, violation cases are pending.
- (xxxiii) The Regional Office (WCZ), Nagpur conducted site inspection of the area to assess the status of compliance of conditions, stipulated in the environment clearance dated 19th March, 2015. The Regional Office, vide letter no. 3-16/2015/3202 dated 5th February, 2018 submitted inspection report along with its observations.
- (xxxiv) As per approved Mining Plan, the lease area is 837.94 ha. However, additional area of 20.2 ha, including 0.20 ha of forest land, is also required outside the lease area for the settlement of Bhatadi village. However, the present proposal has been limited to the existing lease area of 837.94 ha as per existing EC
- (xxxv)No forest land has been reported to be involved in the project. However, an area of 0.20 ha of forest land is involved in the project which, along with 20 ha of additional land, has been proposed to be acquired for the resettlement and rehabilitation of Bhatadi village.
- (xxxvi) The project involves 820 project affected families.
- (xxxvii) Transportation of coal in mine pit head has been proposed by dumpers, surface to sidings by tippers at siding by Pay loader. The PP has also mentioned that construction of piped conveyor is in advance stage.
- 4. The Expert Appraisal Committee in its meeting held on 24th January, 2020 has recommended the proposal for grant of Environmental Clearance. Based on the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval for grant of Environment Clearance(EC) to the project for expansion of Bhatadi Opencast Coal Mine from 0.975 MTPA to 1.465 MTPA (Peak) of M/s Western Coalfields Limited in mine lease area of 847.37 ha, located in Village Bhatadi, District Chandrapur (Maharashtra), under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto, subject to the compliance of the following terms and conditions and environmental safeguards mentioned below:

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- (i) Distance from the mine and OB Dump shall be 150 m away from river.
- (ii) All additional mitigation measures proposed shall be implemented in 1 year of issue of this letter.
- (iii) Project proponent to plant 100,000 nos. of native trees with broad leaves along the periphery of the mine to prevent the effect of air pollution in 3 years of the issue of this letter. After completion of tree plantation, number of trees shall be duly endorsed from District Forest Officer
- (iv) Validity of EC is life of the mine or 30 years whichever is earlier as per EIA Notification, 2006
- (v) The project proponent shall obtain Consent to establish from the State Pollution Control Boards for the proposed peak capacity of 1.465 MTPA prior to commencement of the increased production.
- (vi) Transportation of coal from Coal Handling Plant shall be through covered trucks.
- (vii) To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.
- (viii) Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, 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 loading and unloading points, etc.
- (ix) Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.
- (x) Persons of nearby villages shall be given training on livelihood and skill development to make them employable.
- (xi) 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.
- (xii) Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.
- (xiii) The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 1.465 MTPA.
- (xiv) Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.

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- (xv) 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.
- (xvi) Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles
- (xvii) The activities and fund provisions for CER shall be made as per the guidelines issued by the ministry regarding CER on 1st May, 2018.
- (xviii) Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.
- (xix) The Project Proponent shall complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (xx) Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.
- (xxi) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of antisnake venom including all other paramedical safeguards may be ensured before initiating the mining activities.
- (xxii) Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

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- (xxiii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
- (xxiv) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.
- (xxv)Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a 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". The implementation report of the above said condition shall be sent to the Regional office of the Ministry.
- (xxvi) CTE/CTO for the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.
- (xxvii) The green belt of at least 5-10 m width shall be developed in more than 40% of the total project area, mainly along the periphery of mine boundary, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xxviii) In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.
- (xxix) Monitoring of compliance of EC conditions may be submitted with third party audit every year.

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- (xxx)The percentage the CER may be at least 2 times the amount given in the OM dated 1st May, 2018 recommended by the EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xxxi) Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.
- (xxxii) Transportation of materials by rail/conveyor belt, wherever feasible.
- (xxxiii) A detailed water harvesting plan may be submitted by the project proponent
- (xxxiv) In case, domestic waste water generation is more than 10 KLD, the industry may install STP.
- (xxxv) Monitoring of compliance of EC conditions may be submitted with third party audit every year
- (xxxvi) PP shall comply all the conditions of earlier EC dated 19th March, 2015 in 3 years from the issue of this letter and submit a copy of compliance to Ministry's Regional Office
- (xxxvii) All the recommendation of comprehensive study being conducted by NEERI shall be implemented by project proponent within certain timeline and necessary timeline shall be submitted to Ministry's Regional Office
- **4.1** The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:

(a) Statutory compliance

- (i) The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- (ii) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- (iii) The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).

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- (iv) The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- (v) The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
- (vi) Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.

(b) Air quality monitoring and preservation

- (i) Continuous ambient air quality monitoring stations as prescribed in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM₁₀, PM_{2.5}, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular 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.
- (ii) 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 25th September, 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 the CPCB/SPCB.
- (iii) Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. 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 of 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.
- (iv) The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring 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 so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.

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- (v) 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.
- (vi) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided 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. Drills shall be wet operated or fitted with dust extractors.
- (vii) Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.

(c) Water quality monitoring and preservation

- (i) The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
- (ii) The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-lA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- (iii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
- (iv) Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
- (v) Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
- (vi) Catch and/or garland drains and siltation ponds in adequate numbers and 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

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drains. The drains/ ponds so constructed shall be regularly de-silted 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 and green belt development and other industrial use. 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.

- (vii) Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).
- (viii) Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP /STP needs to be provided.
- (ix) The water pumped out from the mine, after siltation, shall be utilized for industrial purpose *viz.* watering the mine area, roads, green belt development *etc.* The drains shall be regularly desilted particularly after monsoon and maintained properly.
- (x) The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of 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/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 or any other authority as prescribed by the law.
- (xi) The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A rivarine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

(d) Noise and Vibration monitoring and prevention

(i) Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 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 and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

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- (ii) Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.
- (iii) 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 the Ministry/RO on six-monthly basis.

(e) Mining Plan

- (i) Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- (ii) 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).
- (iii) No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.
- (iv) Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

(f) Land reclamation

- (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 or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- (ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic 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 purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" landuse 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 MOEFCC/RO.
- (iv) Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification

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issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEFCC, CPCB and SPCB.

- (v) Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. 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. 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 the Ministry of Environment, Forest and Climate Change/Regional Office.
- (vi) 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 Hon'ble Supreme Court with regard to acquiring grazing land.

(g) Green Belt

- (i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.
- (ii) Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.

(h) Public hearing and Human health issues

- (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 & it's RO on six-monthly basis.
- (ii) The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel 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 personnel identified from

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- workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
- (iii) Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- (iv) Implementation of the 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 down in the R&R policy of the company/State Government/Central Government, as applicable.
- (v) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-1A.I1 (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'.

(i) Corporate Environment Responsibility

- (i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- (ii) The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
- (iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- (iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to 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.
- (v) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

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(j) Miscellaneous

- (i) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- (ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- (iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- (iv) The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- (v) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- (vi) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.I1 (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'.
- (vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- (viii) The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- (ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

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- (x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- (xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
- (xii) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (xiii) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- (xiv) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- (xv) 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.
- (xvi) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- 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.
- 6. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
- 7. Any appeal against this Environment 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.
- 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

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- time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common 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 judgment of Hon'ble Supreme Court.
- 10. This Environment Clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
- 11. This issues in supersession of the earlier EC granted vide letter dated 19th May March, 2015.

(Manoj Kumar Gangeya)

Director

Copy to:

- 1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
- 2. The Principal Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg, Madam Cama Road, Mantralaya, Mumbai 32 (Maharashtra)
- 3. The Additional PCCF (Central), Ministry of Environment Forest and Climate Change, Regional Office (Western Central Zone), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-1 (Maharashtra)
- 4. CMD, WCL, Nagpur
- 5. The Member Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
- 6. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi 32
- 7. The Member Secretary, Maharashtra State Pollution Control Board, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai 2
- 8. The District Collector, Chandrapur, Government of Maharashtra
- 9. Monitoring File 10. Guard File 11. Record File 12. Notice Board

(Manoj Kumar Gai

Director

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437

Fax: 24023516

Website: http://mpcb.gov.in Email: cac-cell@mpcb.gov.in



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

RED/L.S.I (R35) No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000165617/CR/2311001779

To, M/s. Bhatadi Opencast Mine, Western Coalfields Limited, P. O. Bhatadi,Tal & Dist-Chandrapur.



Date: 22/11/2023

Sub: Renewal of consent with increase in CI under RED category.

Ref:

- 1. Earlier Consent granted by Board vide Format1.0/CAC/UAN-109729/ CR/2211001876 dated 24.11.2022 valid up to 31.03.2023.
- 2. Minutes of Consent Appraisal Committee Meeting held on 03.07.2023.

Your application No.MPCB-CONSENT-0000165617 Dated 19.03.2023

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

- 1. The consent to renewal is granted for a period up to 31/03/2024
- 2. The capital investment of the project is Rs.309.4373 Crs. (As per C.A Certificate submitted by industry CI of Existing mine-Rs.306.5463 Cr+ Increase in CI-Rs.2.891 Cr = Total CI-Rs.309.4373 Cr.)
- Consent is valid for the manufacture of:

Sr No	Product	Maximum Quantity	иом	
Prod	Products			
1	Coal	1.465	MTPA	

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	13230	As per	Recycle to the maximum extent for Dust Suppression & Fire Fighting and remining on land for plantation/ Irrigation/Gardening

Sr No	Description	Permitted	Standards to	Disposal
2.	Domestic effluent	45		Recycle to the maximum extent for Dust Suppression & Fire Fighting and remining on land for plantation/ Irrigation/Gardening

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

Sr No.	Sr No. Stack No. Description of stack / source		Number of Stack	Standards to be achieved
		NA		

6. Non-Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Over Burden	1000000	m3/month		Backfilling and Reclamation of Land

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

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	40	KL/A	Recycle	Send to authorised recycler/reprocessor
2	5.2 Wastes or residues containing oil	18	Ton/Y	Incineration	CHWTSDF
3	35.3 Chemical sludge from waste water treatment	40	Ton/Y	Landfill	CHWTSDF

- 8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities
- 10. The applicant shall comply with the conditions of the Environmental Clearance granted by MoEFCC,GoI vide letter No.J-11015/151/2014-IA.II(M) dtd. 13.03.2020
- 11. Industry shall provide Tyre wash system at entry and exit of mine within 3 months and submit the BG of Rs.5.0 Lakh towards compliance of same.
- 12. PP shall provide Trolley mounted mist cannons fogger system at CHP/coal stock yard within 3 month.
- 13. PP shall install CAAQMS at a suitable location in the mine within 3 months and submit the BG of Rs.5.0 Lakh towards compliance of same.
- 14. PP shall submit the valid renewal NOC of CGWA within 3 months period.
- 15. PP shall submit the BG as per BG regime of mines.
- 16. Industry shall submit the undertaking on stamp paper regarding the compliances of above points within a month.

- 17. PP shall carry out plantation as per EC condition before ensuing monsoon.
- 18. PP shall carry out over burden dump management as per CPCB guidelines.
- 19. Industry shall submit the action plan for green belt development all along the major approach/coal transportation roads.
- 20. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent.

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	618875.00	MPCB-DR-18142	25/03/2023	NEFT
2	586000.00	MPCB-DR-19339	31/05/2023	NEFT
3	15000.00	MPCB-DR-19529	06/06/2023	NEFT

Copy to:

- 1. Regional Officer, MPCB, Chandrapur and Sub-Regional Officer, MPCB, Chandrapur
- They are directed to ensure the compliance of the consent conditions.
- 2. Chief Accounts Officer, MPCB, Sion, Mumbai
- 3. CAC desk-For record and website updation purpose

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1. A] As per you application, you have provided ETP of designed capacity-75 KLD consisting of oil skimmer, pre-settling tank-dosing tank-final treated tank provided for treatment of workshop effluent and Provided Sedimentation tank of capcaity-0.75 MLD followed by sand filter for treatment Mine Water discharge.
 - B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	рН	5.5 to 8.5
(2)	Oil & Grease	10
(3)	BOD (3 days 27°C)	30
(4)	Total Suspended solids	100
(5)	Total Dissolved solids	2100
(6)	COD	250

- C] The treated effluent shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise. In no case, effluent shall find its way to outside factory premises.
- 2. A] As per your application, you have provided Sewage Treatment Plant of designed capacity 50 CMD for the treatment of 45 CMD of sewage.
 - B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

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

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

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

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	500.00
2.	Domestic purpose	65.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	100

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

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

S	tack No.	Source	APC System provided/pro posed	Stack Height(in mtr)	Type of Fuel	Content(in	Pollutant	Standard
	NA	NA		0.00	4	-	NA	-

- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
- 3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- 5. Control Equipments
 - a. Coal handling plant shall be provided with GI sheet enclosures & automatic water sprinkler and shall be operated continuously
 - b. Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
 - c. Coal transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation. Overloading of dumpers shall be avoided to prevent spillages

- d. The applicant shall carry out tree plantation along road side, around dumps or compulsory afforestation as per proposal approved by Forest Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width & height is developed between mining area/road and surrounding environment.
- e. Black topped metal roads provided shall be well maintained to prevent dust formation.
- f. Slope of the over burden shall have slope not more than 28° to the horizontal. The overburden shall be covered by vegetation for stabilization
- g. Correct type & quantity of explosive shall be used to avoid excess dust formation & vibration in the surrounding area.

6. Standards for Ambient Air Pollutants:

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

Dust Generating Sources:

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

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

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

7. The applicant shall take adequate measures for control of noise levels from its own sources as follows:

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

8. Other conditions:

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

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2R	Rs. 2.0 Lakh	15 days	Regular monitoring of ground water level and quality should be carried out by establishing the network of existing wells and constructing new piezometers during mining operations	6 Monthly	31.07.2024
2	C2R	Rs.5.0 Lakh	15 days	Catch drain and situation ponds of appropriate size should be constructed to arrest silt and sediment flow from soil, OB and mineral dumps. Water so collected should be utilized for watering of the mining area, roads green belt developers etc.	Regular Activity	31.07.2024
3	C2R	Rs.5.0 Lakh	15 days	Coal transportation shall be done by covered/closed trucks. Overloading of shall be avoided to prevent spillages.	Regular Activity	31.07.2024
4	C2R	Rs.5.0 Lakh	15 days	Coal Handling Plant (CHP) & loading / unloading area will be provided with Dust Collector and Automatic Water Sprinkler.	4 Months	31.07.2024
5	C2R	Rs.5.0 Lakh	15 days	Convert existing water sprinkling arrangement into chemical fogging arrangement (M _g Cl2)	2 Months	31.07.2024

Sr. No	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
6	C2R	Rs.5.0 Lakh	15 days	Deploying mechanized sweepers which are automated suction sweeper for cleaning the coal dust from road.	2 Months	31.07.2024
7	C2R	Rs.5.0 Lakh	15 days	To provide Tyre wash system at entry and exit of mine	3 Months	31.07.2024
8	C2R	Rs.5.0 Lakh	15 days	Adoption of Bioswales technology on the road sides. Bioswales is a land scape element of construction design, primarily a run off conveyance system by the sides of road, to remove dust ,silt and debris	3 Months	31.07.2024
9	C2R	Rs.5.0 Lakh	15 days	Towards installation of CAAQMS within 3 months	3Months	31.07.2024
10	C2R	Rs.5.0 Lakh	15 days	Over burden (OB) should be stacked at earmarked dumpsites only and should not be kept active for long period. Proper terracing of OB should be carried out so that the overall slope will come down to 28°. Over Burden shall be disposed by way of backfilling.	Regular Activity	31.07.2024
11	C2R	Rs.5.0 Lakh	15 days	To provide Trolley mounted mist cannons fogger system at CHP/coal stock yard within 3 month.	3 months	31.07.2024
12	C2R	Rs.25.0 Lakh	15 days	Operation and Maintenance of pollution control system so as to maintain consented standards prescribed in consent and towards compliance of consent conditions and Environment Clearance conditions.	Regular Activity	31.07.2024

Sr. No	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
-----------	----------------------------------	----------------------	----------------------	------------------	----------------------	------------------

The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days from the date of issue of Consent.

BG Forfeiture History

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

BG Return details

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

SCHEDULE-IV

General Conditions:

- 1. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2. If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment, the production process connected to it shall be stopped.
- 6. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 7. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 8. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW(M&TM) Rules 2016, which can be recycled/processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.

- 9. The industry should comply with the Hazardous & Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 10. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 12. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 13. The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 14. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 15. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 17. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 18. The industry should not cause any nuisance in surrounding area.
- 19. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 20. The applicant shall maintain good housekeeping.

- 21. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end
- 22. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 23. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 24. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises
- 25. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 18.11.2009 as amended.

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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



APRIL 2023

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

CMPDI

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

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/APRIL-23/31 DATE OF ISSUE			JE	30-05-23
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR						
TEST REQUIRED	TEST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance docur volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)					
SAMPLE DESCRIPTION		AIR SAMPLE SAMPLING PLAN : LQR 47			LQR 47	
SAMPLING METHOD: LSOP 4		PERIOD OF PERFORMANCE OF LAB ACTIVITIES:				13-04-23 TO 15-05-23

BHATADI SECURITY POST CBOA1									
DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in μg/m³)							ENVIRONMENT		
DATE(dd.IIIII.yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				-		
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Wind)		
01-04-23	02-04-23	240	140	54	22	16	Clear Sky / Moderate Breeze		
16-04-23	17-04-23	248	146	46	20	14	Clear Sky / Moderate Breeze		
STANDARDS FOR COAL MINE, GSR 742(E),		600							
dt. 25 [™] Septe	dt. 25 TH September 2000		300	-	120	120			

	BHATADI MANAGER OFFICE CBOA2									
DATE(dd:mm:yy) OE SAMBLING		PARAMETERS	(24 hourly va	lues in μg/m³)	ENVIRONMENT			
DATE(dd.IIIII.yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	CONDITIONS (Sky/Wind)			
FROM	TO	5	5	2	6	10	CONDITIONS (SKY/WIIId)			
01-04-23	02-04-23	246	148	50	24	14	Clear Sky / Moderate Breeze			
16-04-23	17-04-23	228	150	56	20	12	Clear Sky / Moderate Breeze			
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		422	400				
dt. 25 [™] Sept	dt. 25 TH September 2000		300	-	120	120				

	BHATADI VILLAGE CBOA3										
DATE/ddummur	A) OF CAMPLING		PARAMETERS	(24 hourly va	alues in μg/m³)	EAD (IDONIA 4 EALT				
DATE(dd:IIIII.y	y) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS (Sky/Wind)				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky) Willa)				
01-04-23	02-04-23	118	60	30	12	BDL	Clear Sky / Moderate Breeze				
16-04-23	17-04-23	122	58	28	14	BDL	Clear Sky / Moderate Breeze				
NAAQS, 2009		-	100	60	80	80					

	VADHOLI VILLAGE CBOA4										
DATE/ el el	.) OF CAMPLING		PARAMETERS	ENIVER CALAGAIT							
DATE(dd:mm:y	y) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT				
FROM	TO	5	5	2	6	10	CONDITIONS (Sky/Wind)				
02-04-23	03-04-23	126	56	26	12	BDL	Clear Sky / Lightbreeze				
17-04-23	18-04-23	127	60	24	12	10	Cloudy Sky / Lightbreeze				
NAAQS, 2009		-	100	60	80	80					



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CMPDI RI-IV, NAGPUR 2 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



FUGITIVE DUST MONITORING

FEST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017) & PM2.5: USEPA Quality Assurance					
SAMPLE DESCRIPTION Air sample(Fugitive)					
SAMPLING METHOD: LS	SOP 4		PERIOD OF PE	ERFORMANCE OF LAB ACTIVITIES:	13-04-23 TO 15-05-23

		WORKSHOP	CBOF1			
DATE (dd		PARAMETERS (24 hourly values in μg/m³)		END/IDONIA/ENT		
DATE(da:mm:yy	DATE(dd:mm:yy) OF SAMPLING SPM		PM ₁₀	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	то	5	5 5			
15-04-23	16-04-23	426	268	Clear Sky / Light Breeze		

		CHP/MGR LOADING POINT	CBOF2		
2475/11		PARAMETERS (24 hourly values in μg/m³)		5111 // DOLLA 511 T	
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING SPM		PM ₁₀	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	то	5	CONDITIONS (Sky) Willay		
15-04-23	16-04-23	446	278	Clear Sky / Light Breeze	

		WEIGH BRIDGE	CBOF3			
DATE/dd) OF CANADUMO	PARAMETERS	(24 hourly values in μg/m³)			
DATE(dd:mm:yy) OF SAMPLING	SPM	PM ₁₀ ENVIRONMENT CONDITIONS (Sky/Wi			
FROM	то	5	5 5			
15-04-23	16-04-23	432	280	Clear Sky / Light Breeze		

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CMPDI RI-IV, NAGPUR 3 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



SAMPLE DESCRIPTION	Water sample
Took Donuing d	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C
Test Required	:2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)
SAMPLING METHOD	LSOP 5 PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 13-04-23 TO 15-05-23

MINE WATER DISCHARGE: CBOW1								
DATE OF SAMPLE	ANALYSIS RESULTS							
COLLECTION	pH TSS (in mg/l) COD(in mg/l) 0 & G(
DETECTION LIMIT	2	10	4	2				
01-04-23	7.95	34	40	BDL				
16-04-23	7.46	38	44	BDL				
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10				

ETP DISCHARGE: CBOW2									
DATE OF SAMPLE	ANALYSIS RESULTS pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l)								
COLLECTION									
DETECTION LIMIT	2	10	4	2					
01-04-23	8.06	44	32	BDL					
16-04-23	8.04	42	36	BDL					
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10					

STP(DOMESTIC EFFLUENT)TREATED: CBOW3								
	ANALYSIS RESULTS							
DATE OF SAMPLE COLLECTION	TSS (in mg/l)	BOD(in mg/l)						
DETECTION LIMIT	10	2						
01-04-23	56	9.6						
16-04-23	50	10.8						
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30						



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CMPDI RI-IV, NAGPUR 4 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAM	PLE
Test Required	CPCB PROC	TOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6	

	CHP:	CBON1	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
APRIL'23	13-04-23	63.7	62.4
APRIL'23	26-04-23	64.7	63.5
NOISE POLLUTI CON	75	70	

	COLONY:	CBON2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
APRIL'23	13-04-23	43.6	42.9	
APRIL'23	26-04-23	43.6	42.3	
NOISE POLLUTI	55	45		



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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



MAY 2023

Environment Laboratory
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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report



TEST REPORT NO.		RIN/TR/MAY-23/31 DATE OF ISSUE 30-06-2023					
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
TEST REQUIRED		5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)					
SAMPLE DESCRIPTION AIR SAMPLE SAMPLING PLAN: LQR 47							
SAMPLING METHOD: LSOP 4 PERIOD OF PERFORMANCE OF LAB ACTIVITIES:					15-05-23 TO 16-06-23		

		BHATADI S	ECURITY POST	CBOA1			
DATE(dd:mm:yy	OE CAMBLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS
DATE(dd.IIIII.yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				
FROM	TO	5	5	2	6	10	(Sky/Wind)
02-05-2023	03-05-2023	250	146	60	21	18	Cloudy Sky / Moderate Breeze
16-05-2023	17-05-2023	242	141	52	20	16	Clear Sky / Moderate Breeze
STANDARDS FOR COA	, , , , ,	600	300	_	120	120	
dt. 25 TH Sept	ember 2000	550	300	_	120	120	

		BHATADI MA	NAGER OFFICE	CBOA2			
DATE/dd.ma.ma.u.u.) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					EAU (ID CAUA (EAUT COAUDITIONS
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS
FROM	TO	5	5	2	6	10	(Sky/Wind)
02-05-2023	03-05-2023	240	142	56	22	16	Cloudy Sky / Moderate Breeze
16-05-2023	17-05-2023	233	154	51	20	14	Clear Sky / Moderate Breeze
STANDARDS FOR COAL MINE, GSR 742(E),		600	300		120	120	
dt. 25 TH September 2000		600	300	-	120	120	

	BHATADI VILLAGE CBOA3									
DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT CONDITIONS				
DATE(dd:min.y)	/) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂							
FROM	TO	5	5	2	6	10	(Sky/Wind)			
02-05-2023	03-05-2023	120	62	34	14	BDL	Cloudy Sky / Moderate Breeze			
16-05-2023	17-05-2023	124	55	30	12	BDL	Clear Sky / Moderate Breeze			
NAAQ	S, 2009	-	100	60	80	80				

		VAI	DHOLI VILLAGE	CBOA4			
DATE/dd.mm.u.a	DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³)						ENVIRONMENT CONDITIONS
DATE(dd:min.y)	/) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Willu)
03-05-2023	04-05-2023	130	54	23	12	BDL	Rainy / Lightbreeze
17-05-2023	18-05-2023	132	57	28	10	BDL	Cloudy Sky / Lightbreeze
NAAQ:	5, 2009	-	100	60	80	80	



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CMPDI RI-IV, NAGPUR 2 of 4

Test Report



SAMPLE DESCRIPTION	Water sam	ple					
Test Required	pH: IS 302	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C					
l est kequireu	:2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)						
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 15-05-23 TO 16-06-23					

MINE WATER DISCHARGE: CBOW1								
DATE OF SAMPLE	ANALYSIS RESULTS							
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l)							
DETECTION LIMIT	2	10	4	2				
02-05-2023	6.74	42	48	BDL				
16-05-2023	7.45	36	40	BDL				
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10				

ETP DISCHARGE: CBOW2								
DATE OF SAMPLE		ANALYSI	S RESULTS					
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l)							
DETECTION LIMIT	2	10	4	2				
02-05-2023	8.29	36	40	BDL				
16-05-2023	8.5	30	36	BDL				
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10				

STP(DOMESTIC EFFLUENT)TREATED: CBOW3							
	ANALYSIS RESULTS						
DATE OF SAMPLE COLLECTION	TSS (in mg/l)	BOD(in mg/l)					
DETECTION LIMIT	10	2					
02-05-2023	68	14					
16-05-2023	54	13.2					
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30					



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CMPDI RI-IV, NAGPUR 3 of 4

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAN	PLE
Test Required	CPCB PROC	TOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6	

	CHP:	CBON1		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
MAY'23	13-05-2023	65.5	64.9	
MAY'23	27-05-2023	64.5	63.6	
NOISE POLLUTI CON	75	70		

	COLONY:	CBON2	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
MAY'23	13-05-2023	43.6	42.5
MAY'23	27-05-2023	42.7	41.8
NOISE POLLUTI	55	45	



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JUNE 2023

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

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Test Report



TEST REPORT NO.	RIN/TR/JUNE-23/31			ATE OF ISSUE		31-07-23	
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPL	JR				
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)						
SAMPLE DESCRIPTION		AIR SAMPLE		SAMPLING PLAN : LQR 47		LQR 47	
SAMPLING METHOD :	LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:				17-06-23 TO 15-07-23	

BHATADI SECURITY POST CBOA1							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS
DATE(dd.iiiii.yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Wind)
01-06-23	02-06-23	257	148	53	18	13	Cloudy Sky / Lightbreeze
16-06-23	17-06-23	247	142	55	21	16	Cloudy Sky / Lightbreeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

	BHATADI MANAGER OFFICE CBOA2							
DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)					ENIVERSALIA SENIT CONDITIONS	
DATE(dd:IIIII.yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	5	2	6	10	(Sky/Wind)	
01-06-23	02-06-23	236	140	50	20	14	Cloudy Sky / Lightbreeze	
16-06-23	17-06-23	241	150	47	19	15	Cloudy Sky / Lightbreeze	
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		420	120		
dt. 25 TH September 2000		600	300	-	120	120		

	BHATADI VILLAGE CBOA3							
DATE/ddummur	A) OF CAMPLING		PARAMETERS	(24 hourly va	ENVIRONMENT CONDITIONS			
DATE(dd:min.y	y) OF SAMPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			SO ₂		
FROM	TO	5	5	2	6	10	(Sky/Wind)	
01-06-23	02-06-23	121	57	33	11	BDL	Cloudy Sky / Lightbreeze	
16-06-23	17-06-23	118	60	31	13	BDL	Cloudy Sky / Lightbreeze	
NAAQ	NAAQS, 2009 -		100	60	80	80		

		VA	DHOLI VILLAGE	CBOA4			
DATE/ddummu	DATE(dd:mm:yy) OF SAMPLING PARAMETERS (24 hourly values in µg/m³))	ENVIRONMENT CONDITIONS
DATE(dd:IIIII.y	y) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Willu)
02-06-23	03-06-23	136	50	30	12	BDL	Cloudy Sky / Lightbreeze
17-06-23	18-06-23	127	53	25	10	BDL	Cloudy Sky / Lightbreeze
NAAQ	S, 2009	-	100	60	80	80	

BHATADI COLONY CBOA5							
DATE/dd.mm.u	A) OF CAMPLING	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS
DATE(dd:IIIII.y	y) OF SAMPLING	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂				(Sky/Wind)	
FROM	TO	5	5	2	6	10	(SKY/WIIId)
01-06-23	02-06-23	126	57	36	14	12	Cloudy Sky / Lightbreeze
16-06-23	17-06-23	122	50	31	12	10	Cloudy Sky / Lightbreeze
NAAQ	S, 2009	-	100	60	80	80	



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CMPDI RI-IV, NAGPUR 2 of 4

Test Report



			II.				
SAMPLE DESCRIPTION	Water sample						
ITest Required	l •	5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 5: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part	,				
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	17-06-23 TO 15-07-23				

MINE WATER DISCHARGE: CBOW1								
DATE OF SAMPLE	ANALYSIS RESULTS							
COLLECTION	рН	COD(in mg/l)	O & G(in mg/l)					
DETECTION LIMIT	2	10	4	2				
01-06-23	7.4	38	44	BDL				
16-06-23	7.5	32	40	BDL				
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10				

ETP DISCHARGE: CBOW2								
DATE OF SAMPLE		ANALYSI	S RESULTS					
COLLECTION	pH TSS (in mg/l) COD(in mg/l) 0 & G(in mg/l)							
DETECTION LIMIT	2	10	4	2				
01-06-23	7.74	32	28	BDL				
16-06-23	8.04	28	36	BDL				
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10				

STP(DOMESTIC EFFLUENT)TREATED: CBOW3							
	ANALYSIS RESULTS						
DATE OF SAMPLE COLLECTION	TSS (in mg/l)	BOD(in mg/l)					
DETECTION LIMIT	10	2					
01-06-23	50	14					
16-06-23	54	12					
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30					



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CMPDI RI-IV, NAGPUR 3 of 4

Test Report



NOISE LEVEL MONITORING DATA

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

	CHP:	CBON1	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JUNE'23	13-06-23	62.5	61.5
JUNE'23	19-06-23	64.7	63.9
NOISE POLLUTI	75	70	

	COLONY:	CBON2		
	DATE OF SAMPLE	NOISE LEVEL IN dB(A)		
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
JUNE'23	13-06-23	42.6	41.6	
JUNE'23	19-06-23	42.8	41.5	
NOISE POLLUTI	55	45		



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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



JULY 2023

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

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

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Test Report



TEST REPORT NO.			DATE OF ISSU	JE	31-08-2023		
NAME OF CUSTOMER GM(ENV.), WCL(HQ), NAGPUR			UR				
ITECT DEVILIBED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)						
SAMPLE DESCRIPTION	Ĭ	AIR SAMPLE		SAMPLING PLAN : LO		LQR 47	
SAMPLING METHOD:	LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES:				16-07-23 TO 14-08-23	

BHATADI SECURITY POST CBOA1							
DATE/dd:mm:\\	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS	
DATE(dd:IIIII.yy	DATE(dd:mm:yy) OF SAMPLING			PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Willd)
01.07.2023	02.07.2023	253	145	54	22	15	Cloudy Sky/Light Breeze
16.07.2023	17.07.2023	241	140	51	19	13	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

BHATADI MANAGER OFFICE CBOA2							
DATE/dd:mmuu	PARAMETERS (24 hourly values in μg/m³)					ENIVERONIA SENT CONDITIONS	
DATE(dd:mini.yy	DATE(dd:mm:yy) OF SAMPLING SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5	5	2	6	10	(Sky/Willd)
01.07.2023	02.07.2023	244	142	49	21	11	Cloudy Sky/Light Breeze
16.07.2023	17.07.2023	236	139	43	17	14	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E),		600	200		120	120	
dt. 25 TH September 2000		600	300	-	120	120	

BHATADI VILLAGE CBOA3								
DATE/dd.mama.uu	OE CANADI INC	PARAMETERS	ENVARIONIA AENIT CONIDITIONIC					
DATE(dd:mm:yy) OF SAMPLING PM ₁₀			PM _{2.5}	NO_2	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5	2	6	10	(Sky) Willa)		
02.07.2023	03.07.2023	62	29	10	BDL	Cloudy Sky/Light Breeze		
17.07.2023	17.07.2023 18.07.2023		25	14	BDL	Cloudy Sky/Light Breeze		
NAAQS, 2009		100	60	80	80			

_								
I	VADHOLI VILLAGE CBOA4							
	D A TE / d d	\ OF CANADLING	PARAMETER	END AIR CONDITIONS				
	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
ĺ	FROM	TO	5	2	6	10	(Sky/Willd)	
ĺ	03.07.2023	04.07.2023	60	24	10	BDL	Cloudy Sky/Light Breeze	
I	17.07.2023	18.07.2023	63	26	14	BDL	Cloudy Sky/Light Breeze	
I	NAAQS, 2009		100	60	80	80		

BHATADI COLONY CBOA5						
DATE/dd.ma.ma.v.n	A OF CANADLING	PARAMETER	ENVIRONMENT CONDITIONS			
DATE(dd:mini:y)	DATE(dd:mm:yy) OF SAMPLING		PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	2	6	10	(Sky/Willd)
01-07-2023	02-07-2023	62	26	15	13	Cloudy Sky / Lightbreeze
16-07-2023	17-07-2023	56	23	11	11	Cloudy Sky / Lightbreeze
NAAQS, 2009		100	60	80	80	



CMPDI RI-IV, NAGPUR 2 of 5

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

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

		WORKSHOP	CBOF1		
		PARAMETERS (24 hourly values in μg/m³)		ENVIRONMENT CONDITIONS (Sky/Wind)	
DATE(dd:mm:yy) OF SAMPLING		SPM PM ₁₀			
FROM	то	5	5	- CONDITIONS (Sky) Willia)	
02-07-2023	03-07-2023	438	269	Clear Sky / Light Breeze	

CHP/MGR LOADING POINT CBOF2					
D. 27/11		PARAMETERS (540//DOMA54/5		
DATE(da:mm:yy	DATE(dd:mm:yy) OF SAMPLING		PM ₁₀	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM			CONDITIONS (Sky) Willay		
02-07-2023	03-07-2023	453	284	Clear Sky / Light Breeze	

		WEIGH BRIDGE	CBOF3	
DATE/dd.mom.u.u.	OF CANADUMC	PARAMETERS (ENVIRONMENT	
DATE(dd:mm:yy	DATE(dd:mm:yy) OF SAMPLING		SPM PM ₁₀	
FROM TO		5	5	CONDITIONS (Sky/Wind)
02-07-2023	03-07-2023	442	275	Clear Sky / Light Breeze

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CMPDI RI-IV, NAGPUR 3 of 5

Environment Laboratory CMPDI RI-IV, NAGPUR		Test Report	TC-7102		
SAMPLE DESCRIPTION	Water sample				
Test Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)				
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	16-07-23 TO 14-08-23		

MINE WATER DISCHARGE: CBOW1					
DATE OF SAMPLE		ANALYSIS RESULTS			
COLLECTION	рН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)	
DETECTION LIMIT	2	10	4	2	
01-07-2023	7.35	38	36	BDL	
16-07-2023	7.29	43	44	BDL	
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10	

ETP DISCHARGE: CBOW2					
DATE OF SAMPLE	ANALYSIS RESULTS				
COLLECTION	рН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)	
DETECTION LIMIT	2	10	4	2	
01-07-2023	7.48	26	24	BDL	
16-07-2023	7.79	30	32	BDL	
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10	

STP(DOMESTIC EFFLUENT)TREATED: CBOW3				
	ANALYSIS RESULTS			
DATE OF SAMPLE COLLECTION	TSS (in mg/l)	BOD(in mg/l)		
DETECTION LIMIT	10	2		
01-07-2023	30	16.8		
16-07-2023	22	14.6		
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30		



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Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	1PLE		
Test Required	CPCB PROCTOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015		
SAMPLING METHOD	LSOP 6		

	CHP:	CBON1	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	60.6	59.6
JULY'23	22-07-2023	56.7	55.7
NOISE POLLUTI	75	70	

	COLONY:	CBON2	
	DATE OF SAMPLE	/EL IN dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
JULY'23	07-07-2023	42.9	41.8
JULY'23	22-07-2023	42.6	41.6
NOISE POLLUTI CON	55	45	



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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO. 4094423068



AUGUST 2023

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

CMPDI

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Test Report



TEST REPORT NO.		RIN/TR/AUGUST-23/31 DATE OF ISSUE 30-09-2023					
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
TEST REQUIRED	SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)						
SAMPLE DESCRIPTION A		AIR SAMPLE		SAMPLING PLAN	LQR 47		
SAMPLING METHOD:	MPLING METHOD : LSOP 4 PERIOD OF PERFORMANCE OF LAB ACTIVITI			S:	15-08-23 TO 15-09-23		

BHATADI SECURITY POST CBOA1							
DATE(dd:mm:yy	PARAMETERS (24 hourly values in μg/m³)					ENVIRONMENT CONDITIONS	
DATE(dd.IIIII.yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂			(Sky/Wind)	
FROM	TO	5	5	2	6	10	(Sky/Willu)
08.08.2023	09.08.2023	279	175	55	24	17	Cloudy Sky/Light Breeze
23.08.2023	24.08.2023	265	163	52	21	19	Cloudy Sky/Light Breeze
STANDARDS FOR COA	, , , , ,	600	300	-	120	120	

		BHATADI MA	NAGER OFFICE	CBOA2			
DATE/ d d	PARAMETERS (24 hourly values in µg/m³)			ENIVERSALA SENIT CONDITIONS			
DATE(dd:mm:yy) OF SAIVIPLING	SPM	SPM PM ₁₀ PM _{2.5} NO ₂ SO ₂		ENVIRONMENT CONDITIONS (Sky/Wind)		
FROM	TO	5	5	2	6	10	(Sky/Willu)
08.08.2023	09.08.2023	263	161	50	22	15	Cloudy Sky/Light Breeze
23.08.2023	24.08.2023	250	153	47	18	12	Cloudy Sky/Light Breeze
STANDARDS FOR COA	L MINE, GSR 742(E),	500	200		420	120	
dt. 25 [™] Sept	ember 2000	600	300	-	120	120	

	BHATADI VILLAGE CBOA3						
DATE/dd.mm.ua	4 OF CAMPLING	PARAMETER	ENIVERSALIA SENIT CONIDITIONIS				
DATE(dd:min.y	y) OF SAMPLING	PM ₁₀	PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	2	6	10	(Sky/Willu)	
09.08.2023	10.08.2023	69	24	13	10	Cloudy Sky/Light Breeze	
24.08.2023	25.08.2023	65	23	10	BDL	Cloudy Sky/Light Breeze	
NAAQ	S, 2009	100	60	80	80		

	VADHOLI VILLAGE CBOA4							
DATE/dd.mam.u.	.) OF CAMPLING	PARAMETER	ENLY IDONA AFAIT CONDITIONS					
DATE(dd:min.y	y) OF SAMPLING	PM ₁₀ PM _{2.5} NO ₂ SO ₂			ENVIRONMENT CONDITIONS (Sky/Wind)			
FROM	TO	5	2	6	10	(Sky/Willu)		
09.08.2023	10.08.2023	63	22	9	BDL	Clear sky/Light Breeze		
24.08.2023	25.08.2023	69	25	12	10	Cloudy Sky/Light Breeze		
NAAQ	S, 2009	100	60	80	80			

	BHATADI COLONY CBOA5						
DATE/dd.mm.u.a	4 OF CAMPLING	PARAMETI	ENVIRONMENT CONDITIONS				
DATE(dd:min.y)	y) OF SAMPLING	PM ₁₀ PM _{2.5} NO ₂ SO ₂			(Sky/Wind)		
FROM	TO	5	2	6	10	(SKY/WIIII)	
08.08.2023	09.08.2023	71	27	17	11	Cloudy Sky/Light Breeze	
23.08.2023	24.08.2023	68	24	14	10	Cloudy Sky/Light Breeze	
NAAQ	S, 2009	100	60	80	80		



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Test Report



SAMPLE DESCRIPTION	Water sample					
ITest Required	pH: IS 3025 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2017),COD: APHA (23rd Edition) 5220 C :2017,O &G: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 44): 1993 (RA 2019)					
SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 1	.5-08-23 TO 15-09-23			

MINE WATER DISCHARGE: CBOW1						
DATE OF SAMPLE		ANALYSI	S RESULTS			
COLLECTION	рН	TSS (in mg/l)	COD(in mg/l)	O & G(in mg/l)		
DETECTION LIMIT	2	10	4	2		
08.08.2023	6.97	32	40	BDL		
23.08.2023	6.89	40	44	BDL		
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10		

ETP DISCHARGE: CBOW2						
DATE OF SAMPLE		ANALYSI	S RESULTS			
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l)					
DETECTION LIMIT	2	10	4	2		
08.08.2023	7.28	22	16	BDL		
23.08.2023	7.12	28	24	BDL		
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10		

STP(DOMESTIC EFFLUENT)TREATED: CBOW3						
	ANALYSIS RESULTS					
DATE OF SAMPLE COLLECTION	TSS (in mg/l)	BOD(in mg/l)				
DETECTION LIMIT	10	2				
08.08.2023	27	13.8				
23.08.2023	32	14.4				
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30				



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CMPDI RI-IV, NAGPUR 3 of 4

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAM	PLE
Test Required	CPCB PROC	TOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015
SAMPLING METHOD	LSOP 6	

	CHP:	CBON1	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'23	08-08-2023	58.5	57.6
AUG'23	26-08-2023	59.9	58.6
NOISE POLLUTI CON	75	70	

	COLONY:	CBON2	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
AUG'23	08-08-2023	43.6	42.7
AUG'23	26-08-2023	42.5	41.7
NOISE POLLUTI	55	45	



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ENVIRONMENTAL MONITORING REPORT

BHATADI OC

CHANDRAPUR AREA

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SEPTEMBER 2023

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Test Report



TEST REPORT NO.		RIN/TR/SEPT-23/31 DATE OF ISSUE 27-10-23					
NAME OF CUSTOMER		GM(ENV.), WCL(HQ), NAGPUR					
TEST REQUIRED SPM: IS 5182 Part-4:1999(RA 2019), PM-10: IS-5182 Part 23:2006(RA 2017), PM2.5: USEPA Quality Assurance guidance document volume-II (part-II)-2.12:2016, NO2: IS 5182 Part-06:2006(2017), SO2:IS 5182 Part-2:2001(RA 2017)							
SAMPLE DESCRIPTION		AIR SAMPLE	SAMPLING PLAN: LQR 47		LQR 47		
SAMPLING METHOD:	LSOP 4	PERIOD OF PERFORMANCE OF LAB ACTIVITIES: 15-09-23 TO 1			15-09-23 TO 15-10-23		

		BHATADI S	ECURITY POST	CBOA1			
DATE/dd:mm:uu	DATE(dd:mm:yy) OF SAMPLING		PARAMETERS)	ENVIRONMENT CONDITIONS		
DATE(dd.IIIII.yy) OF SAIVIPLING	SPM	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky/Willu)
08.09.2023	09.09.2023	312	198	57	28	20	Cloudy Sky/Light Breeze
24.09.2023	25.09.2023	301	190	54	26	19	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E), dt. 25 TH September 2000		600	300	-	120	120	

		BHATADI MA	NAGER OFFICE	CBOA2			
DATE/dd.mama	DATE(dd:mm:yy) OF SAMPLING		PARAMETERS)	END ADDRESS OF THE STATE OF THE		
DATE(dd:mm:yy			PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)
FROM	TO	5	5	2	6	10	(Sky) Willa)
08.09.2023	09.09.2023	256	146	48	20	15	Cloudy Sky/Light Breeze
24.09.2023	25.09.2023	273	157	53	24	18	Cloudy Sky/Light Breeze
STANDARDS FOR COAL MINE, GSR 742(E),		500	200		420	420	
dt. 25 TH September 2000		600	300	-	120	120	

BHATADI VILLAGE CBOA3							
DATE/dd.mma	DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in μg/m³)				
DATE(dd:IIIII:y)	/) OF SAMPLING	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	2	6	10	(Sky/Willd)	
09.09.2023	10.09.2023	72	27	17	12	Clear Sky/Light Breeze	
25.09.2023	26.09.2023	69	22	13	10	Cloudy Sky/Light Breeze	
NAAQS, 2009		100	60	80	80		

VADHOLI VILLAGE CBOA4							
DATE/dd	DATE(dd:mm:yy) OF SAMPLING		PARAMETERS (24 hourly values in μg/m ³)				
DATE(dd:mm:y)	/) OF SAMPLING	PM ₁₀	PM _{2.5}	NO ₂	SO ₂	ENVIRONMENT CONDITIONS (Sky/Wind)	
FROM	TO	5	2	6	10	(Sky/Willd)	
09.09.2023	10.09.2023	70	23	15	10	Clear sky/Light Breeze	
25.09.2023	26.09.2023	75	26	18	13	Cloudy Sky/Light Breeze	
NAAQS, 2009		100	60	80	80		

		BHATADI COLO	ONY CBOA5			
DATE/dd.mm.u.a	4) OE CAMBLING	PARAMETI	ENVIRONMENT CONDITIONS			
DATE(dd:IIIII.y)	/) OF SAMPLING	PM_{10}	PM _{2.5}	NO ₂	SO ₂	(Sky/Wind)
FROM	TO	5	2	6	10	(SKY/WIIIU)
08.09.2023	09.09.2023	74	29	19	13	Cloudy Sky/Light Breeze
24.09.2023	25.09.2023	70	26	15	11	Cloudy Sky/Light Breeze
NAAQS, 2009		100	60	80	80	



Analysed by

CMPDI RI-IV, NAGPUR 2 of 4

Test Report



	SAMPLE DESCRIPTION	Water sample						
To	Test Required	pH: IS 302	5 -Part 11:1983(RA 2017),TSS: IS 3025-Part 17:1984(RA 2	2017),COD: APHA (23rd Edition) 5220 C				
	rest kequired	:2017,0 &0	6: IS 3025-Part 39:1991(RA 2019) & BOD: IS 3025 (Part 4	14): 1993 (RA 2019)				
	SAMPLING METHOD	LSOP 5	PERIOD OF PERFORMANCE OF LAB ACTIVITIES :	15-09-23 TO 15-10-23				

MINE WATER DISCHARGE: CBOW1							
DATE OF SAMPLE	ANALYSIS RESULTS						
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in mg/l)						
DETECTION LIMIT	2	10	4	2			
08.09.2023	6.42	35	36	BDL			
24.09.2023	6.55	29	32	BDL			
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10			

ETP DISCHARGE: CBOW2							
DATE OF SAMPLE		ANALYSIS RESULTS					
COLLECTION	pH TSS (in mg/l) COD(in mg/l) O & G(in						
DETECTION LIMIT	2	10	4	2			
08.09.2023	7.58	24	28	BDL			
24.09.2023	7.02	19	24	BDL			
STANDARDS FOR COAL MINE, GSR 742E, dt. 25/09/2000	5.5 - 9.0	100	250	10			

STP(DOMESTIC EFFLUENT)TREATED: CBOW3								
	ANALYSIS RESULTS							
DATE OF SAMPLE COLLECTION	TSS (in mg/l)	BOD(in mg/l)						
DETECTION LIMIT	10	2						
08.09.2023	19	15.6						
24.09.2023	22	13.2						
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENT POLLUTANTS GSR 801E EPA 1993	100	30						



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CMPDI RI-IV, NAGPUR 3 of 4

Test Report



NOISE LEVEL MONITORING DATA

SAMPLE DESCRIPTION	NOISE SAM	IOISE SAMPLE						
Test Required	CPCB PROC	TOCOL FOR AMBIENT NOISE MEASUREMENT, JUNE-2015						
SAMPLING METHOD	LSOP 6							

	CHP:	CBON1	
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)
MONTH	COLLECTION	DAY TIME	NIGHT TIME
	DETECTION LIMIT	20	20
SEPT'23	09-09-23	58.5	57.9
SEPT'23	25-09-23	58.6	57.5
NOISE POLLUTI CON	75	70	

	COLONY:	CBON2		
	DATE OF SAMPLE	NOISE LEV	/EL IN dB(A)	
MONTH	COLLECTION	DAY TIME	NIGHT TIME	
	DETECTION LIMIT	20	20	
SEPT'23	09-09-23	43.6	42.5	
SEPT'23	SEPT'23 25-09-23			
NOISE POLLUTI	55	45		



Ashwin B Wasnik Reviewed by

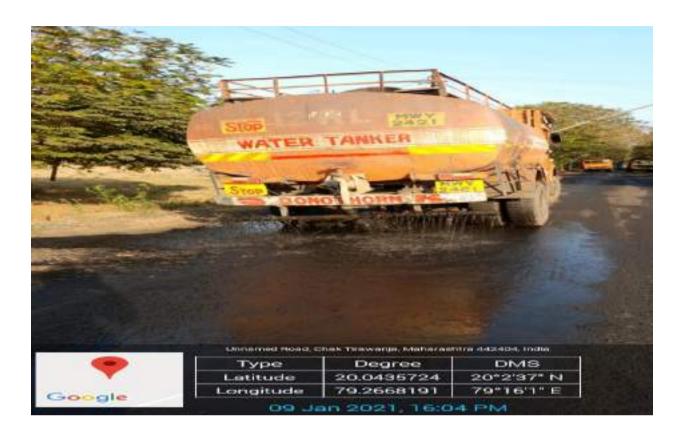
De.

Deepanshu Sahu Authoriesed by

- 1. This report cannot be reproduced in part or full without written of the management.
- 2. Laboratory activities are performed at the Laboratory permanent facility that is ground floor, Environment Lab, CMPDI RI-IV, Nagpur.
- 3. This report refers to the values related to the items tested.

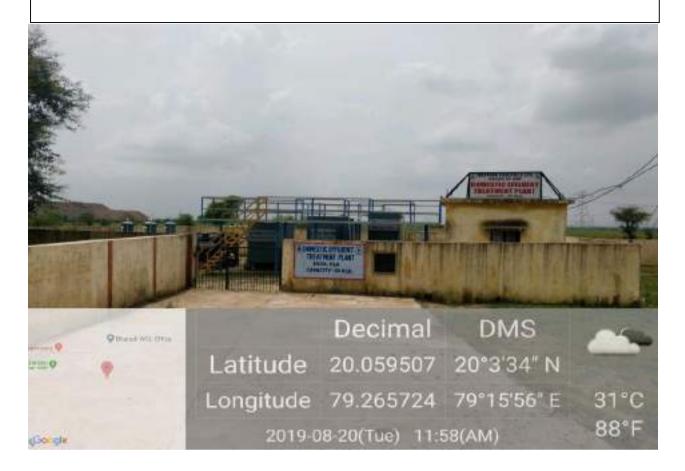
CMPDI RI-IV, NAGPUR 4 of 4

MOBILE TANKER DEPLOYED ON COAL TRANSPORTATION ROAD AT BHATADI OCP





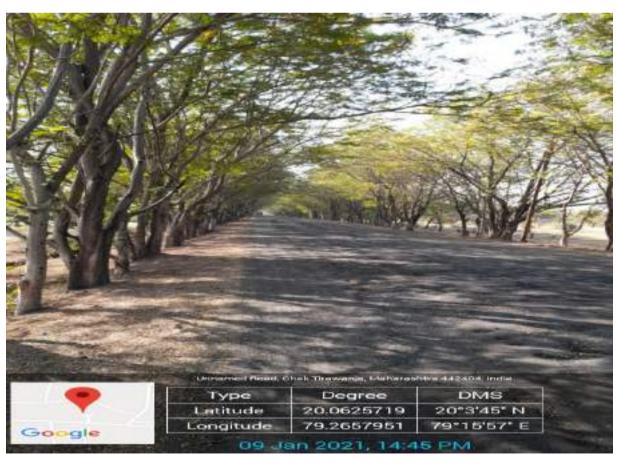
DOMESTIC EFFLUENT TREATMENT PLANT AT BHATADI OCP





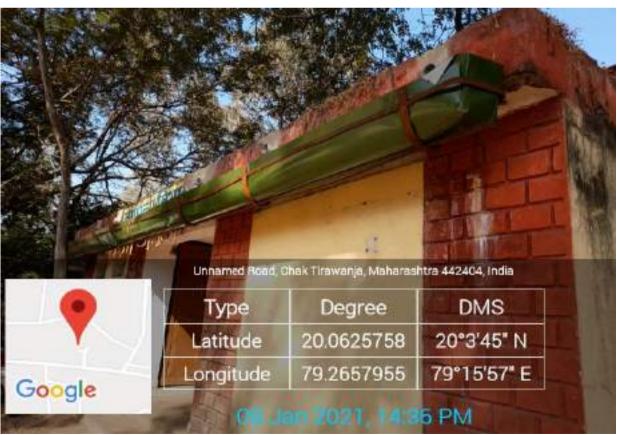
AVENUE PLANTATION ALONG COAL TRANSPORTATION ROAD AT BHATADI OCP



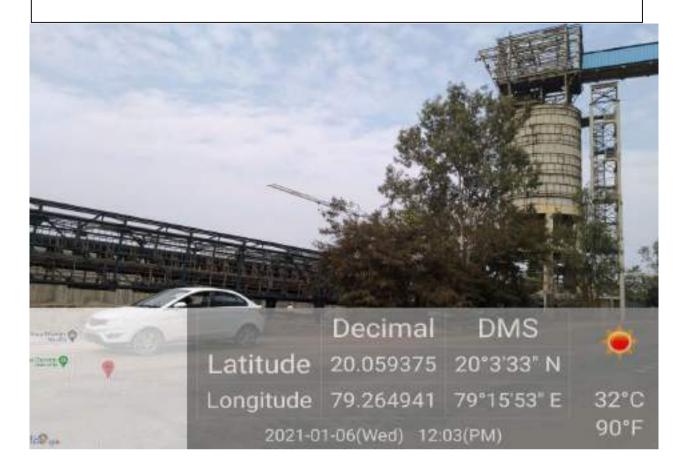


RAIN WATER HARVESTING STRUCTURE AT SAM OFFICE BHATADI OCP





PIPE CONVEYOR SYSTEM AT BHATADI OCP





SEDIMENTATION POND AT BHATADI OCP





EFFLUENT TREATMENT PLANT AT BHATADI OCP



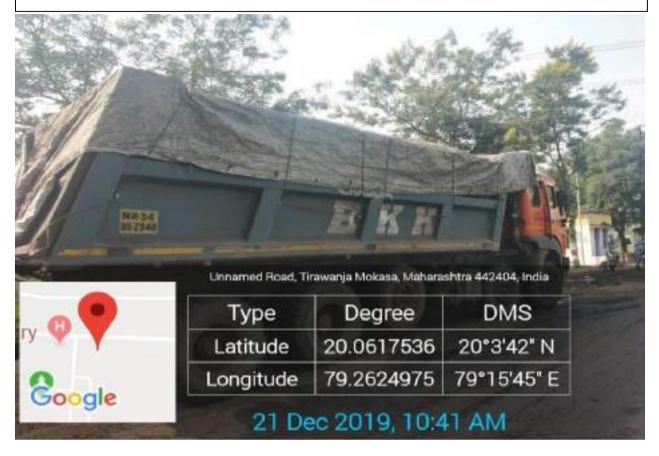


SPRINKLERS AT COAL STOCK YARD AT BHATADI OCP





TARPAULIN COVERING TRUCKS AT BHATADI OCP





MECHANICAL ROAD SWEEPING MACHINE DEPLOYED AT BHATADI OCP







Project Name:

Project Address:

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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

M/s Bhatadi OC Expansion

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Near Bhatadi Village, WCL Chandrapur Area, Wardha Valley Coalfield

Vil	Village:				Payali Bhatali				Block:	Chandrapur				
Dis	District: Chandrapur					State: Maharashtra								
Pir	Code:			4424	04					1	•			
Со	mmunication	Address:		Gene	eral Ma	nager	(Env), \	NCL (H	ર્ગ),	Nagpur, M	laharashtra	a - 440	001	
Ad	dress of CG\	VB Regior	nal Office :		ral Gro arashtra			ard Cen	tral	Region, N	I.S. Buildir	g, Civi	l Lines, N	agpur,
1.	NOC No.:		CGWA/NO	C/MIN/OF	RIG/202	20/763	31							
2.	Application	No.:	21-4/333/M	H/MIN/20	16	(13V	D VV	100	3.	Category	:	Mir	ning	
4.	Project State	us:	Existing Pro	ject	100	٠		15A	5.	NOC Typ	e:	Ne	w	
6.	Valid from:		13/03/2020	1/2	97				7.	Valid up	to:	12/	/03/2022	
8.	Ground Wat	er Abstrac	tion Permitte	ed:	Y				3	130				
	Fresh Water				Saline Water				D	Dewatering			Total	
	m³/day	m³/ye	ar n	n³/day	lay m³/year		ır	m³/day		m³/year		m	³/day	m³/year
	31.00	11315.	.00	0		14820.			.00	5409300.00		148	351.00	5420615.00
9.	Details of gr	ound wate	er abstraction	/Dewate	ering st	ructure	es		19					
		Tot	al Existing	No.:5							Total Prop	osed	No.:0	
			DW	DCB	BW	TW	MP	DW	į	DCB	BW	TW		MP
	Abstraction Structure* 0			0	2	0	3	0		0	0	0		0
*DV	/- Dug Well;	DCB-Dug-	cum-Bore W	ell; BW-E	Bore W	ell; TV	/-Tube	Well; MF	P-M	line Pit				
10. Quantum of ground water recharge/harv					ing(m³/	year):	M. MIEL	STORES		1>	84844.0	00		
11. Number of Piezometers (Observation w constructed/ monitored & Monitoring me								Monitor			ring Mechanism			
									1	Manual	DWLR*		DWLR W	ith Telemetry
	**DWLR - D	igital Wate	er Level Reco	order			:	2		0	1			1

(Compliance Conditions given overleaf)

सदस्य (केन्द्रीय भूमि जल प्राधिकरण) Member (CGWA)

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

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

- No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 2. The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 3. All new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year.
- 4. In case the ground water abstraction is more than 10 m³/day, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m³/day, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
- 5. In case ground water abstraction is more than 10 m³/day, ground water quality shall be monitored once in a year (during pre- monsoon period) and the report submitted to the Regional Office, CGWB. Wherever the extraction is less than 10 m³/day, ground water quality report shall be submitted by the proponent at the time of submission of self-compliance report.
- Ground water augmentation/harvesting measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the concerned Regional Director, CGWB.
- 7. Proof of recharge/water harvesting structures constructed (photographs of structures) shall be submitted to the concerned Regional Director, CGWB within 6 months from the date of issue of NOC. The firm shall also undertake periodic maintenance of recharge/water harvesting structures at its own cost.
- 8. The firm shall submit a report on the impact of ground water withdrawal on the ground water regime in and around the project area within one year of issuance of this NOC.
- 9. The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 10. In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 11. The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
- 12. Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 13. In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 14. Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 15. The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 16. This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.
- 17. This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 18. The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 19. This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 20. Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment(Protection)Act,1986.
- 21. In case of any violation of NOC conditions or illegal extraction of Ground water the firm shall be liable to pay "Environmental Compensation"/ "Penalty", if any under Sec 15 of EPA 1986 as and when decided by statutory authorities.
 - (Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

App	olied For Renewal : 1st					
1.	General Information:					
	Water Quality:	Fresh V	Vater			
	Purpose of Renewal Application:	Existing with Additional Ground Water Requirment				
	Application Type Category/ Type of Application	Coal				
2.	Name of Mine/Project:	ВНАТА	DI OC EXPANSION			
3.	Location Details of the Mining Unit- (Attach Site, A Outside) (\$):	Approved	Mining Plan, Toposketch of Surrounding 10km Radius			
	Address Line 1 :	NEAR E	BHATADI VILLAGE			
	Address Line 2 :	WCL C	HANDRAPUR AREA, WARDHA VALLEY COALFIELD			
	Address Line 3 :					
	State:	MAHAF	RASHTRA			
	District:	CHANE	RAPUR			
	Sub-District:	CHANDRAPUR				
	Village/Town:	Payali Bhatali				
	Latitude:					
	Logitude:					
	Area Type :	Non-Notified				
	Area Type Category :	Safe				
	Whether industry is MSME:	No				
4.	Communication Address					
	Address Line 1:	ВНАТА	DI OC EXPANSION PROJECT			
	Address Line 2:	NEAR E	BHATADI VILLAGE			
	Address Line 3:	WCL C	HANDRAPUR AREA			
	State:	MAHAF	RASHTRA			
	District:	CHAND	RAPUR			
	Sub-District:					
	Pincode:	442401				
	Phone Number with Area Code:					
	Mobile Number:	91 8275	5967993			
-5.	Fax Number: Details of Existing NOC issued by CGWA (enclose E-Mail:	e copy)	any@gmail.com			
	NOC Letter No:	WOIGHAE	CGWA/NOC/MIN/ORIG/2020/7631			
	Date of Issuance:		13/03/2020			
	Vailidity (Start):		13/03/2020			
	Validity (End):		12/03/2022			

Government of India Ministry of Jal Shakti Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA)

Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

		son for not applying for l		Renewal applied on 11.03.2022.Application returned for submission of IAR with Modeling report				
6.	Cha	nge in Land Use Pattern	after execution of Project and	Surroundings (10 km Radius -	Outside)			
		tioned in IAR with Modelin	change in land use pattern only v g. However, outside the mine boo					
7.	Land	d Use Detail of Project A	rea					
		Land Use Details	Existing (sq meter)	Proposed (sq meter)	Grand Total (sq meter)			
	Gree	en Belt Area	0.00	0.00	0.00			
	Ope	n Land	0.00	0.00	0.00			
	Roa	d/ Paved Area	0.00	0.00	0.00			
	Root	ftop area of building/ ds	0.00	0.00	0.00			
	Tota	I	0.00	0.00	0.00			
8.		ether there is a change ir execution of the Project:	Topography of the Area after	Yes				
	a)	Regional		No change in regional topography due to coal mining				
	b)	Project Area		Within the project area, the excavation of quarry and dumping of overburden takes place, due to which topography changes within the project area.				
9.		ether there is change in I r the execution of the Pro	Orainage pattern of the area oject:	No				
	a)	Regional						
	b)	Project Area						
10.		sent Townships / Village ject:-	s within 10 km radius of the	34				

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

App	olied	For R	enewal : 1st	t							
11.	Whe	ther th	ne Groundwa	ter Table v	will be Inte	ersected by	Activity :-			Yes	
	(a)	At Wh	at Depth (m	bgl)				Pre-mo	onsoon	Post-m	onsoon
		Minim	ıum (m bgl)						3.40		2.92
		Maxin	num (m bgl)						8.00		6.6
	(b)	Maxin	num Depth P	roposed to	Dewater	(m bgl)		200.00			
	(c)	Grour	ndwater Flow	Direction	(Attach M	lap)(\$)		Uploaded as	attachment		
	(d)	Any C	ther Informa	tion				NA			
12.	Tota	l Wate	r Requirmen	t for variou	us Purpos	se to be Me	ntioned	Existing (m3/day)	Additional (m3/day)	Existing (m3/year)	Additiona (m3/year)
	Grou	und Wa	ater Required	through A	Abstract S	Structure		31.00	0.00	11315.00	0.0
		und Wa page	ater Abstract	ed on acc	ount of De	ewatering /	Mining	14820.00	159.00	5409300.00	58035.0
	Tota	l Grou	nd Water Wit	hdrawal				14851.00	159.00	5420615.00	58035.0
13.	Deta	ails of I	De-Watering	Structure							
	(a)	De-Wa	atering Existi	ing Structu	ure						
	Num	ber of	Existing Stru	uctures:			3				
		SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)			Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA /If so Details Thereof
		1	Mine Pumps / -	136.00 / -	,		- / -	Centrifugal Pump	603.00	Yes	Yes / -
		2	Mine Pumps / -	136.00 / -			- / -	Centrifugal Pump	636.00	Yes	Yes / -
		3	Mine Pumps /-	136.00 / -			- / -	Centrifugal Pump	136.00	Yes	Yes / -
	(b)	De-Wa	atering Requi	irment and	d Addition	al Structure	e Detail				
	Num	ber of	Proposed St	ructures:			0				
		SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours(Day) / Days(Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
14.	Deta	ails of l	Jtilization of	Pumped V	Vater (Ple	ase Attach	Details)(m3/y	/ear) (\$)			
	(a)	Water	Supply		No						
	(b)	Agric	ulture		No						
	(c)	Green Belt Development			No						

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

	(d)	Supp	ression of Du	st	Yes			94900.00	260 m3/day		
	(e)	Recha	arge		No						
	(f)	Any C	Other Item			Use - 86 m3/ 10 m3/day	day, Fire figh	nting - 40 m3	3/day,supply	villages 80 m	n3/day,
15.	Mon	itoring	of Ground W	later Regir	ne (Attach	n Map(\$))					
	(a)		ion Details of tude, Reduce		/ Piezome	eters (Latitute	e, Observa	ation Well lo	cation plan ι	uploaded in a	ttachments
	(b)	Numb	er of Wells / F	Piezomete	rs		24				
	(c)		h Details of G meters(At Le				Uploade	ed in attachm	nent section		
	(d)	Gene	ral Quality of	GW in the	Area & Su	ırroundings	(\$) Ground	water quality	report Uplo	aded	
	(e)	Any C	Other Item				Mine se	epage qualit	ty uploaded		
16.			etails of chan showing GW f			egime and q	uality after (execution o	f the projec	ct (Attach de	tailed report
	IAR	with M	odeling study a	attached un	ider Extra	Attachments I	head in attac	hment secti	on		
17.	Prop	oosed	Pump / Pump	ing Groun	dwater Οι	utside the Mi	ne Pit for Do	omestic or	Other Use (If so, give D	etails):
	Num	nber of	Existing Stru	ctures:			2				
		SNo.	Type of Structure Name / Year of Constructio n	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operation al Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
		1	Tubewell / -	100.00 / 203			-/-	Submersi ble Pump	7.50	Yes	Yes / -
		2	Borewell / -	130.00 / 203			- / -	Submersi ble Pump	5.00	Yes	Yes / -
	Num	nber of	Additional St	ructures:			0				
		SNo.	Type of Structure Name / Year of Constructio n	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground	Discharge (m3/Hour)	Operation al Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission n Registered with CGWA/If

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

(a). C	ompliance to the Condition prescribed	in the NOC	
SNo.	Conditions given in NOC	Compliance Conditions Applicable	Status of Compliance
1	Area Specific Plantation	Yes	Total area of 92.27 Ha is bought under plantation, this includes 19.20 Ha Ext OB dump, decoaled area and 19.8 Ha along the periphery of the mine and 53.27 Ha over undisturbed area.
2	Domestic Water School Sanitation	Yes	RO Plants are provided at Chota Nagpur Village, Tirwanja village and a Bhatadi Colony. Provision of hand pumps, concrete roads, solar lamps has also been done.
3	Groundwater quality monitoring - Pre monsoon and Post monsoon	Yes	Ground Water Quality analysis is carried out at 14 locations in buffer zone of the subject mine
4	Maintenance of recharge structures	Yes	Housekeeping of rain water harvestir pit / channels and desilting of checkdam are being carried out before onset of monsoon every year.
5	Number of Pizometers as per NOC and Water Level Record	Yes	One no. of piezometers has been installed at Bhatadi OC mine of WCL (20.062623N, 79.266164 E)
6	Number of Tubewells Borewales as per NOC	Yes	Two nos. of Borewells are provided f domestic use with dewatering quanti (permitted) of 31 m3/day or 11315 m3/year.
7	Pizometer fitted with AWLRs with telemetrry as per NOC	Yes	One no. of piezometers has been installed at Bhatadi OC mine of WCL (20.062623N, 79.266164 E)
8	Quantum of Groundwater as per NOC	Yes	NOC no. CGWA/NOC/MIN/ORIG/2020/7631 with a validity from 13/03/2020 to 12/03/2022 pertaining to Dewatering quantity of 14851 m3/day or 5420615m3/year
9	Recharge through ponds	Yes	Deliberated in IAR with Modeling rep
10	Recycle and reuse of water	Yes	Mine Pumped out water is used for dust suppression, firefighting purpos and plantation etc. ETP of capacity 75 KLD is in operati Treated water is recycled back and used for washing of HEMM.
11	RWH and AR structures implemented	Yes	Deliberated in IAR with Modeling rep
12	Submission of Compliance report to the Region	Yes	Self-compliance report was submitte on 08/03/2021

Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

Applied For Renewal: 1st

	(b). Co	ompliance to the Condition prescribed Conditions give		Status of Compliance	
	(b) C	ampliance to the Condition prescribed	in the NOC - Other		
abstraction data.					
	16	Wells fitted with water meter and its Record	Yes	All existing ground water abstraction structures are fitted with digital water flow meters, as per the NOC. Register/log book is also being maintained for ground water	
	15	Well monitored around the plant premises	Yes	In case of Bhatadi Opencast mine, monitoring of ground water level from existing wells covering core and buffer zone, is being carried with a frequency of four times a year.	
	14	Water Security Plan of villages	Yes	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.	
	13	Water conservation measures	Yes	Mine Pumped out water is used for dust suppression, firefighting purpose and plantation etc. ETP of capacity 75 KLD is in operation Treated water is recycled back and used for washing of HEMM.	

MINING USE- Self Declaration

Deliberated in IAR with Modeling report

✓ I hereby certify that the data and information furnished above are true to the best of my knowledge and belief and I am aware that if any part of the data / information submitted is found to be false or misleading at any stage, the application will be rejected outright.

I hereby declare that all the mandatory documents prescribed in the application form have been uploaded and no blank /irrelevant documents have been uploaded. I am also aware that any false/ wrong submission /uploading of document will lead to rejection of my application without any notice.

It is to certify that no case related to ground water withdrawal/ contamination is pending against the industry/ project/ unit as on date. Any such case filed against the company/ project/ unit in respect of ground water withdrawal/ contamination during the pendency of this application shall be immediately brought to the notice of CGWA.

I hereby undertake that in case any environmental compensation/ penalty is imposed on the firm by any statutory authority, I shall comply with the decision of such authority.

- 1. Application Proforma is subject to modification from time to time.
- 2. Application is submitted online on website http://cgwa-noc.gov.in to following office.

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA)

Application for Issue of NOC to Abstract Ground Water (NOCAP)

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Application Number: 21-4/333/MH/MIN/2016

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	gional Director, Central 0001	Ground water Board C	entral Region, N.S. Building, Civ	II Lines, NAGPUR,	МАНАКАБНІКА,
3.	Incomplete application wil	Il be summarily rejected.			
	anned copy of last page bmission of application		nature and seal should be attach	ned at presribed plac	e before
		` .	s Five Thousand Only) submitted thro th hard copy of application.	ugh NON TAX RECEI	PT PORTAL
Pr	ocessing Fee:-				
Bharat Kosh Transaction Ref. No:-					
	arat Kosh Transaction te:-				
	te:- The Processing Fee i d Required Documents b		icant should ensure and Check Eli Application.	gibility of Submissio	n of Application
5. Hard copy of application red		equired:	No		
6. Ground Water Quality Approved		Not Define	Ground Water Charge Required:	Not Define	
Ground Water Charge Recieve:		No	Ground Water Charge Amount:		

Attached Files:

1). GroundWater flow Direction Map: (Refer:11-C)

S.No	Attachment Name	File Name
1	Hydrogeological Map	Hydrogeological Mappdf

Amount:

Ground Water Arear

2). GW Level of Observation Wells / Piezometer : (Refer:15-C)

S.No	Attachment Name	File Name
1	GW Level	GW level.pdf

3). General Quality of Ground Water in the Area: (Refer:17-D)

S.No	Attachment Name	File Name
1	GW Quality	GW Quality.pdf

4). Changes in Topogpraphy: (Refer: 8)

No Attachment Found!

5). Changes in Drainage Pattern : (Refer: 9)

No Attachment Found!

6). Reason for Not Applying for Renewal before Expiring NOC: (Refer: 5)

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

Applied For Renewal: 1st

No Attachment Found!

7). Existing NOC: (Refer: 5)

S.No	Attachment Name	File Name
1	CGWA NOC	NOC Bhatadi OC.pdf

No.	Conditions given in NOC	Attachments		
		S.No.	Attachment Name	File Name
1	Area Specific Plantation	No Attach	ment Found!	
2	Domestic Water School Sanitation	No Attach	ment Found!	
3	Groundwater quality monitoring - Pre monsoon and Post monsoon	No Attach	nment Found!	
4	Maintenance of recharge structures	No Attach	ment Found!	
5	Number of Pizometers as per NOC and Water Level Record	No Attach	nment Found!	
6	Number of Tubewells Borewales as per NOC	No Attach	nment Found!	
7	Pizometer fitted with AWLRs with telemetrry as per NOC	No Attach	nment Found!	
8	Quantum of Groundwater as per NOC	No Attach	nment Found!	
9	Recharge through ponds	No Attach	ment Found!	
10	Recycle and reuse of water	No Attach	ment Found!	
11	RWH and AR structures implemented	No Attach	ment Found!	
12	Submission of Compliance report to the Region	No Attach	nment Found!	
13	Water conservation measures	No Attach	ment Found!	
14	Water Security Plan of villages	No Attach	ment Found!	
15	Well monitored around the plant premises	No Attach	nment Found!	
16	Wells fitted with water meter and its Record	No Attach	nment Found!	

)). Compliance to the Condition prescribed in the NOC - Other : (Refer: 17-b)							
SNo.	SNo. Conditions given in NOC Attachments						
		S.No.	Attachment Name	File Name			
1	NA	No Attacl	nment Found!				

10). Extra Attachment :

Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Application for Renewal of NOC)

Application Number: 21-4/333/MH/MIN/2016

Applied For Renewal: 1st

S.No	Attachment Name	File Name
1	Borewell Quality	Borewell Test Reportpdf
2	Checklist Affidavit	Checklist Salient Affidavit.pdf
3	CTE CTO	CTE CTOpdf
4	Land Use Wetland	Land Use and Wetlant affi.pdf
5	IAR with Modeling including CHR	Bhatadi OC_IAR with Modelling including CHR.pdf

11). Bharat Kosh Reciept (Porcessing Fee):

No Attachment Found!

12). Application with Signature and Seal:

S.No	Attachment Name	File Name
1	Sign and Seal	Sign and Seal.pdf

13). MSME certificate in case of MSME:

No Attachment Found!

Date : Name & Signature of the applicant
Place : (With official seal)

Associated User : gmwcl
Submitted By User : gmwcl
Submission Date : 29/09/2022

^{*} In case signed by any authorized signatory, the details of the signatory with the authorization shall be enclosed.

CORPORATE SOCIAL RESPONSIBILITY ACTIVITIES OF CHANDRAPUR AREA, W.C.L.

(from 2012-13 to 2019-20)

	ACTIVITY OF THE YEAR- 2012-13						
SI. No.	VILLAGE NAME	CSR ACTIVITIES WORK	YEAR	TOTAL EXPENDITUR E (Rs. In lakhs)			
		EDUCATION AND HEALTH					
1	kitadi Providing one set Sound System , 5 Dari , 2 Book Shelf, 3 Celling Fans & Musical Instrument for Upper Primary School Kitadi village		2012-13	0.16			
2	Kawthi	Providing 50 Desks , Benches, Almari Toys, Swing etc. for Z.P School Kawthi.	2012-13	1.17			
3	Bhatadi	Providing Educational Notebook School Uniform, Cycle for girls Students under BPL at Bhatadi Village.	2012-13	0.12			
4	Payali	Providing educational and Musical Instrument material at Payali Village	2012-13	0.12			
5	Nandgaon Pode	Providing Books Rs. 10,000/- and Furniture Rs. 25,000/- for Students of Z.P upper Primary School, Nandgaon Pode.	2012-13	0.39			
6	Sinhana	Providing uniform and Sports material to Anganwadi at Sinhala village.DOC SA	2012-13	0.16			
7	Bhatadi	Providing 2 Computer with printer, Chair, sound system & Electric Bell for Z.P. School Bhatadi	2012-13	1.13			
8	Chandrapur Area	Providing educational books for Non-English Medium School Children for exposure to English language from Jaiditya Publication New Delhi (Rs. 20.000/- Per Month for 100 Books)	2012-13	0.48			
9	Chandrapur	Providing Water Cooller to Govt. ITI, Chandrapur	2012-13	0.88			
10	Bhadadi	Construction of Toilet and Bathroom at Z.P Upper primary School Bhatadi	2012-13	2.63			
11	Nandgaon Pode	Construction of Wall Compound Wall at Late Gopalrao Wankhed Vidyalaya, Nandgaon Pode village.	2012-13	3.95			
12	Chandrapur Area	Conducting Health Camps in Arwat, Visapur payli & Kitadi (Population 10,000 each Village) Aids Awareness Camp in Lalpeth, Durgapur (1000each) Eye Camps " Jyoti Vision" at Lalpeth Dental Check-up Camp in village School (10 Different Schools)	2012-13	0.41			
	INFRASTRUCTURE						
13	Trivenja	Construction of 100 Mtrs.C.C. Road at Check Trivenja Village	2012-13	3.44			
14	Mokasa	Construction of 200 Mtrs. Drain at Trivanja Mokasa Village	2012-13	9.11			
15	Hadasti Construction of 300 Mtrs. C.C Road (Rs.10.00 Lakhs) with 300 Mtr. Drain (Rs.4.00 Lakhs)at Hadasti Village.		2012-13	10.85			
16	Bhatadi	Constraction Cement Concrete of Drain at Bhatadi.	2012-13	8.26			
17	Binba gate	Protective work at Shantidham Near Binba Gate, Chandrapur (In Place of making stair case)	2012-13	8.77			

18	Patanpura gate	Protective work like retaining wall, Stone Pitching etc. at Mokshadham at patanpura Gate.	2012-13	9.36
19	Dhidsi	Construction of WBM Road towards Cremation Ground at Dhidsi Village	2012-13	9.52
20	Tirwanja	Black Topping of Village approach Road at Tirwanja (650 Mtr)	2012-13	20.02
21	Nandgaon Pode	Construction of 200 Mtrs Road at Nandgaon Pode.	2012-13	7.29
22	Tirvanja	Construction of 200 Mtrs. C.C Road and 200 Mtrs. Drain at Tirvanja Mokasa(Rs. 7 Lakhs for roads & 3.00 lakhs for Drain)	2012-13	11.03
23	Nandgaon	Construction of 100 Mtrs.C.C Drain at Nandgaon Village.	2012-13	10.86
24	Tirvanja	Construction of 200 Mtrs.C.C Drain at check Trivanja	2012-13	2.55
25	Tukum	Construction of 2 Km WBM approach Road from Masala Tukum to Padmapur	2012-13	14.06
26	Tukum	Construction of 300 Mtrs. C.C. Road at Tukum Ward.	2012-13	8.24
27	Babupeth	Construction of 300 Mtrs. C.C. Road at Ambedkar Nagar, Babupeth Ward from Mata Chowk to Tukaram Chowk, from Sri Akkewar House to Rajeswar Kumare House, from Sri Gunwant Bankar House to Sri Dilip Mankar house, under HLUG		8.32
28	Agarzari	Construction of Bus Shed at Agarzari Village	2012-13	1.39
29	Padmapur	Black Topping of Road from Check post to turning of Sector-IV via PWD Bridge under Padmapur OC Sub Area.	2012-13	22.68
		CULTURAL AND SOCIAL		
30	Nandgaon	Construction of Cultural Hall at Nandgaon pode. (6 x 6 Mtr.)	2012-13	5.52
31	Padmapur	Construction of Common Community Shed near Hanuman Mandir, Padmapur.	2012-13	3.88
32	Tirvanja	Construction of Mokshdham at Tirvanja Mokasa Village.	2012-13	2.87
33	Durgapur	Construction of Compound Wall for Burial Ground , Durgapur (150 Mtr)	2012-13	4.41
34	Mata Nagar	Construction of Community Hall near Gomukh Hanuman mandir at Mata Nagar Ward, Chandrapur (9 Mtr. X 6 Mtr)	2012-13	12.62
35	MKC	Development work like Stage, Pathway and work Place at Cremation shed at MKC	2012-13	2.53
36	Tirvanja	Providing 5 table, 2 almirah , 5 Fibre Chairs, 3 Dari to Gram Panchayat office, Tirvanja Mokasa.	2012-13	0.40
37	Babupeth	Providing Fibre Chair, table to Phule Shash Ambedkar vichar Pravartak Vachnalaya, Babupeth	2012-13	0.09
38	Bhiwapur Basti	Providing 3 Nos. Sewing Machine, 2 No. Almirah, 25 No.Fibre Chair, 2 No. Table , 2 No. Dari to mahakranti Bahuuddeshiya Mahila Mandl bhiwapur Basti under HLUG SA	2012-13	0.65
39	Chandrapur	Conducting 2 Nos. Village Sports with Uniforms to Players at Sinhala & Nandgaon Villages. (Joint tournament consisting of all Players from adjoining Villages)	2012-13	3.20
40	Vichoda Bhuj	Construction of 2 Nos. Dhobi Ghat at Vichoda bhuj and Vichoda Ray	2012-13	2.93

41	Balaji Ward	Providing LPG Connection to 1547 BPL families residing in Buffer Zone of Tadoba Anchri Tiger Reserve	2012-13	26.43
		DRINKING WATER SUPPLY/ENVIRONMENT		
42	Padmapur	Construction of Bandhara (Talav Making) for Drinking Water Arraangement for animals	2012-13	6.76
43	Mahakali ward	Digging Borewell at Mahakali Ward No. 33.2 Hand pumps 1 at Primary School , 1 at Mahakali Canteen Chowk.	2012-13	1.43
44	Saibaba Mandir	Providing 2 No. Hand Pumps near Saibaba Mandir Junona and Shedmake House Babupeth	2012-13	1.21
45	Chandrapur	Plantation with Barbed wire fencing in open spaces in Chandrapur		25.15
		TOTAL		277.43

ACTIVITY OF THE YEAR- 2013-14

SL. NO.	VILLALGE NAME	NAME OF THE WORK	YEAR	TOTAL EXP. (Rs. In lakhs)
		INFRASTRUCTURE		
1	Bichoda Ray	Constn.of 400 metres cement concrete road at vichoda Ray	2013-14	13.850
2	Nandgaon	Constn.of one side drain from Nandgaon pode towards Chandrapur [length-400 metres]	2013-14	1.690
3	Charwat	Constn.of road for rehabilitation of flood affected Charwat village [Letter recd.from Hansraj Ahir]	2013-14	15.390
		EDUCATION AND HEALTH		
4	Nandgaon, Mana, Visapur, Arwat, Charwat, Junona.	2013-14	1.850	
5	Nandgaon, Mana, Visapur, Arwat, Charwat, Junona.	Providing 50 cycles to school going girls from distant villages – Bhatadi, Kitadi, Payli, Trivanja, Chek Trivanja, Vichoda, Badholi, Kadholi, Padoli, Sinhala	1.870	
6	Chichpalli, Lohara, Borda, Mamla, Ghanta Chowki.	Chichpalli, Lohara, Borda, Mamla, Ghanta Chichpalli, Lohara, Borda, Mamla, Ghanta Providing 50 cycles to school going girls from distant villages – Chichpalli, Lohara, Borda, Mamla, Ghanta 2013-14		1.850
7	Chandrapur.	Providing Computer, 100 nos. chairs, 2 nos. Table, 2 Nos. wheel chairs for Physically and Mentally challenged people/ children of Jeevan Sangarsh Sanstha, chandrapur.	2013-14	1.030
8	Bichoda Bu, Tadali.	Providing one book shelf, one steel Almirah, 20 chairs, 2 tables, 1 Dari for Z.P. Primary School, Bichoda Bu, Tadali.	2013-14	0.250
9	Indira Nagar	Providing school uniforms to students during Independence Day at Indira Nagar	2013-14	0.490
10	Wadoli	Providing 2 Almirahs, 12 fibre chairs 2 tables, 2 Dari, sound system, 2 ceiling fans, books & 12 sports dress for Z.P.School Wadoli	2013-14	0.843

11	Babupeth	Providing bookshelf, chair, reading table to Phule Sahu Ambedkar Vichar Pravartak Vachnalaya, Babupeth [Letter received from President]	2013-14	0.280
12	Chandrapur	Conducting 4 Nos. Coaching Camps at 4 different rural villages	2013-14	0.800
13	Chandrapur	Conducting 2 Nos. village sports with uniforms to players at 2 different rural villages.	2013-14	2.530
14	Chandrapur	Conducting Medical Health Camps in different rural villages.	2013-14	1.770
15	Chandrapur	Dental Check-up Camps in village school [10 different villages]	2013-14	0.100
16	Chandrapur	Mobile Van facilities	2013-14	1.000
	1	NATER SUPPLY, SANITATION AND PLANTATION		
17	Forest	Plantation on 100 Ha. Degraded forest land	2013-14	180.000
18	Anchaleshw ar Ward	Digging Bore Well at Ravidas Chowk Anchaleshwar Ward Chandrapur 2013-14		0.640
19	Bagad Khidki	Digging Bore Well at Bagad Kidki Near House of Hera lal Thakur	2013-14	0.640
20	Bhiwar	Digging Bore Well at Bhiwar Prantik Collony Near Wagmare House	2013-14	0.664
21	Rajiv Gandhi Nagar	Digging Bore Well at Rajiv Gandhi Nagar Near Gukul Shau House	2013-14	0.664
22	Nurani Masjid	Digging Bore Well at Nurani Masjid Near Ibrahim House	2013-14	0.664
23	Lalpet Nurani Basti	Digging Bore Well at Lalpet Purana Basti Near Dlip M. House	2013-14	0.664
24	Lalpet Nurani Basti	Digging Bore Well at Lalpet New Basti Near Satpute House	2013-14	0.664
25	Bagad Khidki	Constn.of 2 class rooms with Toilet for Priyadarshini Kanya Vidyalaya, Bagad Khidki, Chandrapur.	2013-14	5.780
		TOTAL		229.053

ACTIVITY OF THE YEAR- 2014-15

Sr. No.	AREA	ACTIVITIES	Year	Expenditure (Rs. In lakhs)
	EI	NVIRONMENT		
1	Chandrapur	Implementation of Rainwater Harvesting schemes at Chandrapur (SD)	2014-15	5.20
2	Chandrapur	Afforestation on 50 HA. degraded forest land	2014-15	91.58
	Н	EALTH AND SOCIAL EMPOWERMENT		
3	Chandrapur	Conducting Medical Health Camps in different rural villages.	2014-15	0.32
4	Chandrapur	Self employment training to 50 rural youths of villages around Chandrapur Area as per CIL CSR policy(MOU)	2014-15	1.00
5	Chandrapur	Providing LPG connections to poor families of Chandrapur	2014-15	38.39
6	Chandrapur Development of Disaster Relief Fund Management Software for Collector office, Chandrapur(SD)		2014-15	26.96
		TOTAL		163.45

01		ACTIVITY OF THE YEAR- 2015-16		Expenditure				
SL. NO.	Area	NAME OF CSR ACTIVITY	Year	(Rs. In lakhs)				
		SOCIAL EMPOWERMENT						
1	Chandrapur	Skill development training under MoU to 100 Rural Youths	2015-16	1.99				
2	Chandrapur	Skill Development Training undertaken by CIPET for Rural Youth under CSR Activities.	2015-16	37.20				
3	Chandrapur	Distribution of Bicycle to 553 Rural School going girls of Chandrapur	2015-16	27.65				
		ENVIRONMENT AND ECOLOGY						
4	Chandrapur	Financial Assistance for construction of Bharat Ratna Dr. A. P. J Abdul Kalam Nisarg Udyan at Chandrapur	2015-16	302.07				
		TOTAL		368.91				
		ACTIVITY OF THE YEAR- 2016-17						
SL. NO.	Area	NAME OF THE ACTIVITY	Year	Expenditure (Rs. In lakhs)				
		WOMEN EMPOWERMENT						
1	Chandrapur Area	Distribution of Bicycle to 553 Rural School Going Girls.	2016-17	27.65				
		ENVIRONMENT AND ECOLOGY						
2	Chandrapur Area	Plantation on 50 Ha. Degraded Forest land by FDCM at Babupeth Compartment No. 484	2016-17	25.63				
3	Chandrapur Area	Plantation on 100 Ha. Degraded Forest Land by FDCM at Babupeth & Morwa Compartment No. 485/486	2016-17	16-17 6.92				
		TOTAL		60.20				

	ACTIVITY OF THE YEAR- 2017-18									
SL. NO.	Area	NAME OF THE ACTIVITY	IE ACTIVITY Year							
1	Chandrapur Area	Purchasing Of Plant Saplings for distribtution to different units Under Special Swachata Pakhwada	2017-18	0.12						
2	Chandrapur Area	Purchase Of Dustbins On Occasion Of Extended Swachata Pakhawada for distribution to villages.	2017-18	0.50						
3	Chandrapur Area	Purchase Of Plants for distribution to different units	2017-18	0.38						
4	Chandrapur Area	Construction Of Class Room At Bagini Niveditha Vidya Mandir	2017-18	4.06						
5	Chandrapur Area	Providing Of Led Screen	2017-18	4.20						

6	Chandrapur Area	Providing Of Led Screen	2017-18	4.20
7	Chandrapur Area	Providing Of Led Screen	2017-18	4.20
8	Chandrapur Area	Providing Of Led Screen	2017-18	4.20
9	Chandrapur Area	Providing Of Led Screen	2017-18	4.20
10	Chandrapur Area	Cleaning Works To Be Carried Out At Bhatadi And Tirwanja Village Under Swacchata Action Plan Of Bocm.	2017-18	1.35
11	Chandrapur Area	Development Of Disaster Relief Fund Management Software For Collector Office, Chandrapur(Sustainable Development Activity)	2017-18	3.12
		TOTAL		30.53

	ACTIVITY OF THE YEAR- 2018-19								
SL. NO.	Area	Year	Expenditure (Rs. In lakhs)						
1	Chandrapur Area	CLEANING WORKS TO BE CARRIED OUT AT BHATADI AND TIRWANJA VILLAGE UNDER SWACCHATA ACTION PLAN OF BOCM(2017-18 ACTIVITY)	2018-19	0.79					
2	Chandrapur Area	PROVIDING DUSTBIN TO NEARBY SCHOOL	2018-19	0.33					
3	Chandrapur Area	BEAUTIFICATION AND DEVELOPMENT OF GARDEN AT TALAV OF TIRWANJA VILLAGE AT BOCM UNDER PSA	2018-19	0.17					
4	Chandrapur Area	PUBLICITY AND PROPOGANDA THROUGH BANNERS IN ALL CONSPICUOUS PLACES LIKE OFFICEES, WORKSHOP TIME OFFICE COLONIES ETC INCLUDING AREA WORKSHOP. FOR ORGANISING SWACCHTA RELATED COMPITITION WITH CASH PRIZES.	2018-19	15.00					
5	Chandrapur Area	FINANCIAL ASSISTANCE TO DISTRICT COLLECTOR CHANDRAPUR FOR RENOVATION OF PRIYADARSHNI HALL AT CHANDRAPUR	2018-19	10.00					
6	Chandrapur Area	INSTALLATION OF SANITARY NAPKIN VENDING MACHINE THROUGH PRAYAS FOUNDATION	2018-19	1.20					
7	Chandrapur Area	PROVIDING WATER COOLER CAPACITY 150 LTR AND WATER PURIFIER(100 LITRE)TO BUS STAND	2018-19	3.34					
8	Chandrapur Area	PROVIDING WATER PURIFIER RO TYPE CAPACITY 50 LTRS AND WATER COOLER(80 LTRS) TO 5 SCHOOLS IN CHANDRAPUR	2018-19	0.67					
9	Chandrapur Area	CONSTRUCTION OF TOILETS AT PRIYADARSHANI GIRLS SCHOOL AT CHANDRAPUR	ONSTRUCTION OF TOILETS AT PRIYADARSHANI 2018-19						

10	Chandrapur Area	RENOVATION OF TOIELTS AT Z.P. SCHOOL, NANDGAON UNDER SWACCHTA ACTION PLAN	2018-19	0.79
11	Chandrapur Area	PROVIDING WATER COOLER CAPACITY 150LTR TO RAILWAY STATION, CHANDRAPUR	2018-19	0.43
12	Chandrapur Area	INTER AREA KABADDI TOURNAMENT 18-19 AT CHANDRAPUR AREA	2018-19	2.97
13	Chandrapur Area	PROVIDING 5 NOS. WATER PURIFIERS IN PHC ACROSS CHANDRAPUR	2018-19	0.91
14	Chandrapur Area	PROVIDING TWO COMPUTERS TO INDIRA GANDHI VIDHYALAYA, PADOLI	2018-19	1.06
		TOTAL		41.66

	ACTIVITY OF THE YEAR- 2019-20								
SL. NO.	Area	Year	Expenditure (Rs. In lakhs)						
1	Chandrapur Area	Construction of multipurpose hall for Priyadarshini Kanya Vidhyalaya.	2019-20	9.32					
2	Chandrapur Area	Village health camps	2019-20	1.97					
3	Chandrapur Area	Payment towards third year operation to FDCM against plantation on 50 Ha degraded forest land-Babupeth Compartment No.484	2019-20	12.38					
4	Chandrapur Area	Construction of 1 No RO plant with maintenance of one year at Check Tirvanja Village		9.00					
5	Chandrapur Area	Village sports in Kabaddi and Volley ball 2019-20		1.00					
6	Chandrapur Area	Financial assistance to District administration Chandrapur for rain water harvesting scheme in Chandrapur	2019-20	37.5					
7	Chandrapur Area	Publicity through rallies, competitions in schools, display of hoardings and banners, etc of Chandrapur Area	2019-20	0.79					
8	Chandrapur Area	Construction of separate public toilet blocks with urinals and water connections for ladies and gents at Nandgaon village of Chandrapur area.	2019-20	6.00					
9	Chandrapur Area	Skill development activities	2019-20	3.44					
		Total		81.40					

Various CSR Activities near Durgapur Opencast Mine and in Chandrapur Area Handpump/Borewell installation at various locations



Handpump at Biyani Nagar



Handpump at Baggad khidki



Borewell at KVC Central school



Handpump at Sarkar nagar



Handpump at Sashtrakar Lay-out



Handpump at DRC-V, Nehru Nagar



Construction of Platform at Motaghat Nallah



Construction of 150 mtr. Concrete road at Sangeet Nagar



Construction of Community Hall at Asthbhuja Mandir



Construction of 200 mtr. Road from Tadoba to Kalimata Temple



Construction of Compound wall of Community hall of Durgapur Village



Furniture for Gram Panchayat (Sinhala)



Furniture for Kendriya Vidyalaya(Chandrapur)



<u>Distribution of Uniform to Economically weaker section</u>



Repair of Slab Zila Parishad School(Durgapur)



Repair of Mahakali Cremetery (Chandrapur)



Toilet for Handicapped student at KVC, Chandrapur



Tarfelting work at NP Telgu Highschool



Bicycle distribution to female students of Chandrapur district schools



<u>Distribution of Grains and medical help to Flood victims</u>



<u>Distribution of LPG gas connections to BPL families</u>



Medical Camp for Pilgrims to Mahakali Temple



De-silting and widening of Erai River

PLANTATION UNDER CORPORATE SOCIAL RESPONSIBILITY



50 Ha. Plantation under CSR



Plantation Rows



Area under Plantation

REPORT ON

MONITORING OF GROUND WATER LEVEL

OF

BHATADI OC EXPN.
CHANDRAPUR AREA
(M.S)

WESTERN COALFIELDS LTD.



PERIOD- DEC 2022 (POST-MONSOON), JAN-FEB -2023 (WINTER) & MAY-2023 (PRE-MONSOON)



M/s Anacon Laboratories Pvt. Ltd., Nagpur

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

Lab. & Consultancy: FP-34, 35, Food Park, MIDC, Butibori, Nagpur – 441122
Mob: +91-9372960077

Email: ngp@anacon.in

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

2022-23 & 2023-24

Certificate

The Ground water Level monitoring has been carried out with due diligence and the Monitoring of Ground Water Level of all observation wells Report have been prepared as per the scope of work order no. वेकोलि/मुख्यालय/पर्यावरण/14-L/77 on date: 08.12.2022.

The report encompasses the Monitoring of Ground water level reports of observation wells pertaining to the BHATADI OC EXPN MINE, of the Chandrapur District, Maharashtra.

Anacon Laboratories Pvt. Ltd. gratefully acknowledges the full cooperation rendered by concerned WCL Officials for timely completion of the project.

Ajinkya Nakod (Geologist) **Gyanchand Bohra**NABET Accredited EIA Expert
for Hydrogeology & Geology

Nagpur. August-2023 (Dr. D. G. Garway) Head of Organization

Anacon Laboratories Pvt. Ltd., Nagpur

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I-TABLE	BHATADI OC EXPN.	GROUND WATER MONITORING OF WELL DATA FROM DEC 2022(POST-MONSOON), JAN-FEB 2023 (WINTER) & MAY-2023 (PRE-MONSOON)	8					
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BHATADI OC EXPN. CHANDRAPUR AREA WESTERN COALFIELDS LTD.

PERIOD- DEC 2022(POST-MONSOON), JAN-FEB 2023 (WINTER) & MAY-2023 (PRE-MONSOON)

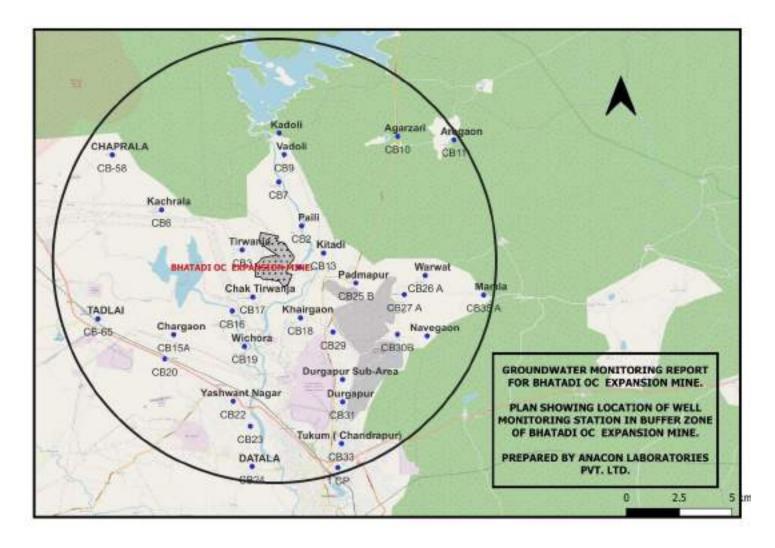


FIGURE-I: GROUND WATER MONITORING STATION (OBSERVATION WELLS IN AND AROUND OF BHATADI OC EXPN)

Table: I Ground Water Level Monitoring Data From Dugwells/Piezometer in Buffer Zone of Bhatadi OC Expn., Chandrapur Area, WCL

Sr. NO	Well No.	Name of village	Well location	LAT	LONG	R.L. in m	Well dia	Well depth	Height of measuring	Depti (m bg		er level		
							(m)	(m bmp)	point (m agl)	Dec- 22	JAN- FEB- 23	May- 23	Utility / Owner	Formation Tapped
1	CB1	Bhatadi	Centre of village , near OHT	20°3'13.7"	79°17'5.86"	212	8.84	3.81	0.61	3.5	4.95	6.19	agriculture	basalt
2	CB2	Paili	Centre of village , near Budha Samaj Mandir	20°4'21.18"	79°17'9.08"	230	9.76	2.73	0.81	3.85	5.25	2.41	agriculture	limestone
3	CB3	Tirwanja	North of village, near Primary school & Hanuman Mandir	20°3'42.12"	79°15'33.03"	189	7.67	3.85	0.85	4.35	6.15	6.11	domestic	limestone
4	CB6	Kachrala	West of village , 100m S of Zila Parishad school.	20°4'47.27"	79°13'21.85"	195	8.82	3.15	0.72	5.75	7	7.42	agriculture	laterite
5	CB7	Chincholi	Centre of village, near Vittal Jungani house (East)	20°5'32.43"	79°16'32.14"	187	9.83	4.82	0.62	4.65	6.35	7.83	agriculture	laterite
6	CB8	Kadoli	East of village at the entrance	20°6'51.56"	79°16'32.69"	196	12.82	3.12	0.75	4.85	4.9	11.42	agriculture	basalt
7	CB9	Vadoli	West of village ,near There's home	20°6'16.67"	79°16'41.17"	200	12.86	4.12	0.91	3.65	5.35	9.19	agriculture	laterite

Sr. NO	Well No.	Name of village		LAT LONG	LONG	R.L. in m		Well depth	Height of measuring	Depth to water level (m bgl)				
							(m)	(m bmp)	point (m agl)	Dec- 22	JAN- FEB- 23	May- 23	Utility / Owner	Formation Tapped
8	CB10	Agarzari	Adjacent (west) to Tadoba road, near Bus stop & Hanuman Mandir	20°6'46.4"	79°19'45.41"	241	9.91	2.93	0.47	4.15	6	7.72	domestic	basalt
9	CB11	Aregaon	700m west of village , adjacent to Agarzari - Aregaon road	20°6'40.82"	79°21'17"	236	8.61	3.95	0.81	2.85	5.85	6.19	domestic	laterite
10	CB13	Kitadi	North of village , near Zila Parishad school	20°3'37.1"	79°17'44.99"	197	10.4	4.12	0.76	5.25	7.75	8.82	agriculture	basalt
11	CB15A	Chargaon	North of village , near Hanuman temple	20°1'24.53"	79°13'41.68"	201	8.78	4.39	0.45	4.35	7.35	7.73	domestic	limestone
12	CB16	Nagpur	About 200m NE of village , adjacent to Tirwanja road	20°2'2.86"	79°15'16.59"	239	9.87	3.13	0.51	6.45	8	8.13	domestic	limestone
13	CB17	Chak Tirwanja	W of village , near Zila Parishad school	20°2'25.76"	79°15'50.06"	199	12.31	2.76	0.73	7.15	10.25	11.42	domestic	basalt

Sr. NO	Well No.	Name of village	Well location	LAT	LONG	in m	Well dia	Well depth	Height of measuring	Depth to water level (m bgl)				
							(m)	(m bmp)	point (m agl)	Dec- 22	JAN- FEB- 23	May- 23	Utility / Owner	Formation Tapped
14	CB18	Khairgaon	North of village, near Primary school	20°1'51.9"	79°17'7.44"	205	11.42	2.41	0.55	6.85	7.65	8.91	agriculture	laterite
15	CB19	Wichora	West of village , near Budha Samaj	20°1'5.57"	79°15'36.64"	215	11.02	2.14	0	7	9.45	10.10	agriculture	laterite
16	CB20	Marwa	West of village & Nagpur - Chandrapur road (in the field)	20°0'45.11"	79°13'27.1"	219	8.82	4.31	0.76	4.25	6.35	7.16	agriculture	basalt
17	CB22	Yashwant Nagar	Centre of village , near Zila Parishad school & Hanuman Mandir	19°59'36.44"	79°15'18.15"	217	7.87	3.97	0.82	3.65	4.25	6.35	agriculture	limestone
18	CB23	Kosara	West of village , adjacent to road	19°58'55.9"	79°15'46.1"	238	12.25	3.91	0.94	4.45	5.35	11.42	agriculture	basalt
19	CB25 B	Padmapur	About 50 m E of Tadoba road in the field, About 400 m N of new village	20°2'48.37"	79°18'37.75"	248	15.87	3.14	1.31	5.35	6.25	11.19	domestic	limestone

Sr. NO	Well No.	Name of village	e in m d	LAT	LONG	in m	Well dia	Well depth	Height of measuring	Depth to water level (m bgl)				
				(m)	(m bmp)	point (m agl)	Dec- 22	JAN- FEB- 23	May- 23	Utility / Owner	Formation Tapped			
20	CB26 A	Warwat	Centre of village, near temple	20°3'0.76"	79°20'30.41"	233	8.81	2.42	0.81	3.15	4.15	7.93	agriculture	basalt
21	CB27 A	Masala Tukum	South of village, adjacent to Warwat road	20°2'29.65"	79°19'56.29"	240	8.41	2.87	0.62	6.15	7.75	7.95	agriculture	limestone
22	CB24	DATALA	SE of village , in Shanti Kunj Nagar	19°57'50.51"	79°15'48.89"	187	14.28	4.3	0.62	5.85	7.45	12.14	agriculture	laterite
23	CB28 A	Navegaon	Near OH Tank, South of village, East of Warwat road	20°1'22.36"	79°20'33.62"	215	8.42	3.88	0.61	4.75	6.4	6.91	agriculture	laterite
24	CB29	Padmapur Sub -Area Office	Outside SAM office, adjacent to Tadoba road (E)	20°1'28.65"	79°18'0.69"	222	10.13	2.61	0.63	4.25	5.75	8.85	agriculture	basalt
25	CB31	Durgapur	East of Tadoba road , inside St. Mary's Convent compond	19°59'35.39"	79°18'16.18"	198	11.47	3.27	0.45	3.85	4.85	10.15	agriculture	basalt
26	CB32	Durgapur Sub-Area	Trade Union office compound	20°0'11.63"	79°18'15.98"	243	893	2.34	0.72	7.35	7.9	7.28	agriculture	limestone

Sr. NO	Well No.	Name of village	Well location	ocation LAT		R.L. in m	in m dia	Well depth	Height of measuring	Depth to water level (m bgl)				
						(m)	(m bmp)	point (m agl)	Dec- 22	JAN- FEB- 23	May- 23	Utility / Owner	Formation Tapped	
			(INTUC), MQ type quarters											
27	CB30B	SINHALA	100 m East from Road between Sinhala nad Navegaon	20°1'25"	79°19'45"	240	12.48	3.29	0.91	8.25	9.35	11.49	agriculture	basalt
28	CB33	Tukum (Chandrapur)	Adjacent (East) to Tadoba road in garden , near Petrol pump.	19°58'27.68"	79°18'14.23"	212	9.85	3.3	0.77	7.25	8.25	9.10	agriculture	basalt
29	CB35 A	Mamla	C of village	20°2'29"	79°22'5"	189	9.82	3.24	72	4.15	6.2	8.60	agriculture	basalt
30	CB-58	CHAPRALA	EAST 200M FROM ZP SCHOOL.	20°6'16.23"	79°12'1.75"	205	9.6	4.8	0.5	2.1	4.5	6.89	agriculture	limestone
31	CB-65	TADLAI	NORTH 30M FROM RAMCHADRA DHENGARE HOUSE	20°1'50.34"	79°11'38.9"	208	9.2	5.2	0.4	3.5	5.3	8.48	Agriculture And Domestic use	limestone
32	1 CP	Chandrapur	Infront of Telephone exchange LIC office	19°57'48.74"	79°18'8.45"	223	8.41	2.73	0.61	3.65	6.95	7.25	agriculture	laterite

ANALYSIS REPORT



Anacon Laboratories





TC 5458

Test Report

ULR No.- TC545823000001925F

Test Report No.: ALPL/18072023/08- 46

Sample Inward No.

Dated 18:07:2023 ALPL/24062023/W-1/54-46

Page 1 of 1 Analysis Start

24.06.2023

Issued To:

M/s Western Coalfields Limited (WCL)

Futala Road, Coal Estate, Civil Lines, Nagpur,

24/00/2023 laward Date

Analysis End

14,07,2023

WCL HQ (M.S), 440001

Reference

Sample Category

Sample Name

Sample Particulars/Details

Purpose of analysis

Water Quantity Received

Ground Water

Ground Water (Sample ID: 1 CP): (Chandrapur Area) Sampling Date

19.95.2023

Drinking

ELIF

Sample Collected By Mr. Akash Kimake

Sampling Time

Not Mentioned

Sampling Location Chandrapur

Tests Required: Chemical Testing.

TEST RESULTS

Test Parameter	Measurement	Test Method	(Drinking Wat Including Ar	Test Result		
	Unit	the engineering of	Acceptable Limit			
Chemical Testing 1, Water			THE RESERVE OF THE PARTY OF THE	6.00	83.21	
	mg/l			AND DESCRIPTION OF THE PERSON	1	
117771111111111111111111111111111111111	Hazen		A STATE OF THE PARTY OF THE PAR		35.73	
	mg/l		The second secon		25.92	
ALTERNATION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	mg/l		A STATE OF THE PARTY OF THE PAR	209	BDL(DL+0.1)	
	mg/l		The second secon	- 11	0.12	
	mg/t		A 100		8.76	
	mg/l			The second secon	BDL(DL-2)	
	The second secon	APHA method 23rd edition, 2017	The second second	The second secon	Assecable	
The state of the s	-	IS 3025 (Part 5): 2018		The second secon	5.09	
+ AND CONTRACTOR OF THE PARTY O		IS 3025 (Part 11): 2022		And an included the second second second second	A STATE OF THE PARTY OF THE PAR	
	med.	IS 3025 (Part 24) : 2022	200		3.86	
			500		344	
	A CONTRACTOR OF THE PERSON NAMED IN CONT	15 5025 (Part 10): 1984	1	- 5	0.3	
Turbidity	100000000000000000000000000000000000000	IS 3025 (Part 21): 2009	200	600	100.5	
	t sale,	111 3022 11 01 01 11				
					BDL (DL - 0.01)	
	ms/I	1S 3025 (Part 37): 2022	-	The state of the s	BDL (DL - 0.01)	
		IS 3025 (Part 2): 2019		The second secon	BDL (DL = 0.1)	
		fS 3025 (Part 2) : 2019	100000000000000000000000000000000000000			
A CONTRACTOR OF THE PARTY OF TH		IS 3025 (Part 2) : 2019	0.05	The state of the s	BDL (DL = 0.03)	
			0.003	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BDL (DL + 0.001)	
			1.0		0.01	
Contract of the Contract of th			0.01	The second secon	BDL (DL = 0.001	
			0.1		BDL (DL = 0.05)	
		IS 3025 (Part 2): 2019	0.02		BDL (DL - 0.01)	
1 100000			0.01	No relaxation	BDL (DL-0,001)	
D-E14-11-10-11-11-11-11-11-11-11-11-11-11-11-			0.05	No relaxation	BDL (DL - 0.03)	
		to 2005 (Bost 2) - 2019	5	15	BDL (DL + 0.1)	
	Chemical Testing 1. Water Alkalinity Colour Chloride (as Cl) Calcium (as Ca) Residual Chlorine Fluoride (as F) Magnesium (as Mg) Nitrate (as NO.) Odour pH Sulphate (as SO.) Total dissolved solids Turbidity Total hardness (as CaCO.) Chemical Testing 2. Residues In Water Arsenic (as As) Aluminium (as Al) Boron (as B) Copper (as Cu) Cadmium (as Cd) Iron (as Fe) Lead (as Ph) Manganese (as Mn) Nickel (as Ni) Selenium (as Sc) Total Chromium (as Cr) Zinc (as Zn)	Afkalinity mg/l Colour Hazen Chloride (as Cl) mg/l Caleium (as Ca) mg/l Residual Chlorine mg/l Fluoride (as F) mg/l Magnesium (as Mg) mg/l Nitrate (as NO ₁) mg/l Odour - pH - Sulphate (as SO ₂) mg/l Total dissolved solids mg/l Total hardness (as CaCO ₃) mg/l Chemical Testing 2. Residues In Water Arsenic (as Ma) mg/l Boron (as B) mg/l Copper (as Cu) mg/l Cadmum (as Cd) mg/l Fron (as Fe) mg/l Lead (as Pb) mg/l Manganese (as Mn) mg/l Nickel (as Ni) mg/l Selenium (as Se) mg/l Total Chromism (as Cf) mg/l	Afficilitity	Afficialisty	Alkalimity	

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 ■ Non-penshable and periodoble tample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • Premissible familia at absence of an alternate source for driving water. • "repf" in equivalent to "ppn" • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument furthed and shall be

REMARKS: As requested by the client, sample was tested for above parameters only. The submitted Sample complies with 18:10500:2012, for tests conducted, indicating that it is

fit for drinking purpose with respect to tested parameters.

Verified By

Mangesh Fande Technical Manager

Deputy Technical Manager

---END OF REPORT-

Authorized Signatory

Deput Quality Manager

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Anacon Laboratories Pvt. Ltd. Nagpur Lab

PP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122



Anacon Laboratories



Page 1 of 1



TC 5458

Test Report

ULR No.- TC545823000001925F Test Report No.: ALPL/18072023/08- 1

M/s Western Coalfields Limited (WCL) Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440001

Dated 18.07.2023

Sample Inward No.

24.06.2023

ALPL/24062023/W-1/54-1

Analysis Start

24.06.2023

Inward Date

Analysis End

14.07.2023

Reference Sample Name

Sample Particulars/Details

Sample Category Water

Ground Water Sample Collected By Ground Water (Sample ID; CB1); (Chandrapur Area) Sampling Date 15.05.2023

Purpose of analysis Drinking

Quantity Received Ltr

Mr. Akash Kirnake

Sampling Time

Not Mentioned

Sampling Location

Bhatadi

Tests Required: Chemical Testing

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as (Drinking Wa Including A	Test Result	
1	Chemical Testing 1. Water			Acceptable Limit	Permissible Limit #	
1	Alkalinity	mg/t	IV 2024 (Pro-120) (100)			N/II
2	Colour	Hazen	IS 3025 (Part 23): 1986	200	600	83.21
3	Chloride (as CI)	mg/l	IS 3025 (Part 4): 2021		15	1
4	Calcium (as Ca)	mg/l	IS 3025 (Part 32) :1988	250	1000	42.11
5	Residual Chlorine	mg/l	IS 3025 (Part 40): 1991	75	200	26.88
6	Fluoride (as F)	mg/l	IS 3025 (Part 26) : 2021	0.2	1	BDL(DL+0.1)
7	Magnesium (as Mg)	mg/l	1S 3025 (Part 60): 2008	1.0	1.5	0.13
8	Nitrate (as NO ₁)	-	IS 3025 (Part 46): 1994	30	100	6.42
9	Odour	mg/I	APHA method 23rd edition: 2017	45	No relaxation	The second secon
0	pH	-	IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable
1	Sulphate (as SO ₁)	-	IS 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	
2	Total dissolved solids	mg/I	IS 3025 (Part 24): 2022	200	406	8.13
3	Turbidity	mg/I	IS 3025 (Part 16): 2023	500	2000	6.34
4	Total hardness (as CaCO ₃)	NTU	IS 3025 (Part 10): 1984	1	5	226
	Chemical Testing	mg/l	IS 3025 (Part 21): 2009	200	600	0.2
1	2. Residues In Water				000	93,6
5	Arsenie (as As)	mis/I	16 3635 (D. 186) 2001			
6	Aluminium (as Al)	l'qin	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01
7	Boron (as B)	mg/I	IS 3025 (Part 2): 2019	0.03	0.2	BDL(DL- 0.01
8	Copper (as Cu)	ing/l	IS 3025 (Part 2); 2019	0.5	2.4	BDL (DL +0.1)
9	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL = 0.03)
0	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.00
	Lead (ns Pb)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	BDL(DL-0.01)
2	Manganese (as Mn)	Poppi	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.00)
	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	0.1	0.3	BDL (DL - 0.03)
	Selenium (as Se)	mgT	IS 3025 (Part 2) : 2019	0.02	No relaxation	BDL (DL - 0.01)
	Total Chromium (as Cr)		IS 3025 (Part 56): 2003	0.01	No relaxation	BDL (DL-0.00)
	Zine (as Zn)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)
		mg/l	IS 3025 (Part 2) : 2019	5	15	BDL (DL - 0.03)

to confirm the authenticity of this report. • Results shall be referred to tested sample(x) and applicable to tested parameters only ◆ Test report shall not be reproduced except in full without prior written approval of Anacon Labs. ◆ Linbility of Anacon Labs is limited to invoiced amount only. ◆ Not-perishable and alternate source for deaking water. ◆ "reglt" is equivalent to "ppin". ◆ BDL- Below detection limit. ◆ DL- DL Indicates detection limit of instrument /northood and shall be

REMARKS: As requested by the client, sample was tested for above parameters only. The submitted Sample complies with ES:10500:2012, for tests conducted, indicating that it is Verified By

Mangesh Fande

Technical Manager

Sochal Raut Deputy Technical Manager

-END OF REPORT-

Authorized Signatory

Deputy Quality Manager

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Anacon Laboratories





TC 5458

Test Report

ULR No.- TC545823000001928F Test Report No.: ALPL/18072023/08-2

Issued To: M/s Western Coalfields Limited (WCL) Futala Road, Coal Estate, Civil Lines, Nagpur, WCL HQ (M.S), 440001

Sample Collected By

Mr. Akash Kirnake

Dated 18.07.2023

Sample Inward No. ALPL/24062023/W-1/54-2

24.06.2023

Page 1 of 1 Analysis Start

24.06.2023

Analysis End

14.07.2023

Reference Sample Name Ground Water

Sample Particulars/Details Ground Water (Sample ID: CB2); (Chandrapur Area) Sampling Date Sampling Time

Inward Date

15.05.2023 Not Mentioned

Sample Category Purpose of analysis Drinking

Water Quantity Received

1 Ltr Sampling Location Paili

Tests Required: Chemical Testing.

			TEST RESULTS	And the second second second second		
S.N.	Test Parameter	Test Parameter Measurement Unit Test Method		Requirement as (Drinking War Including Ar	Test Result	
1	Chemical Testing L Water			Acceptable Limit	Permissible Limit #	1
1	Alkalinity	mg/l	IS 3025 (Part 23): 1986		A CHENNIS HAVE THE	
2	Celour	Hazen	IS 3025 (Part 4) : 2021	200	600	78,5
3	Chloride (as Cl)	mg/l	IS 3025 (Part 32):1988	5	15	1
4	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	250	1000	40.83
5	Residual Chlorine	mg/l		75	200	29.76
6	Fluoride (as F)	mg/l	IS 3025 (Part 26) : 2021	0.2		BDL(DL- 0.1)
7	Magnesium (as Mg)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	0.14
8	Nitrate (as NO ₁)	mg/l	IS 3025 (Part 46): 1994	30	100	10.51
9	Odour		APHA method 23rd edition: 2017	45	No relaxation	BDL(DL-2)
10	pH	-	IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agrecable
11	Sulphate (as SO ₄)	mg/I	IS 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	8.04
12	Total dissolved solids	1000000	IS 3025 (Part 24): 2022	200	400	7.35
13	Turbidity	mg/l NTU	IS 3025 (Part 16): 2023	500	2000	245
14	Total hardness (as CaCO ₄)		IS 3025 (Part 10): 1984	1	5	0.2
	Chemical Testing	reg/l	1S 3025 (Part 21) ; 2009	200	600	117.6
11	2. Residues In Water					117.0
15	Arsenic (as As)	mg/T	IE 2025 (D 22) 2022		- compare	
16	Aluminium (as Al)	mg/I	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL + 0.01)
7	Boron (as B)	mg/l	IS 3025 (Part 2) : 2019	0.03	0.2	BDL(DL-0.01
8	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL + 0.1)
9	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.05	1.5	BDL (DL + 0.03)
0.0	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.00
	Lead (as Pb)	mg/I	IS 3025 (Part 2) : 2019	1.0	No relaxation	0.01
2	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.00)
3	Nickel (as Ni)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
4	Selenium (as Se)		IS 3025 (Part 2): 2019	0.02	No relaxation	BDL (DL = 0.01)
5	Total Chromium (as Cr)	mg/I	IS 3025 (Part 56): 2003	0.01	No relaxation	BDL (DL-0.01)
6	Zinc (as Zn)	mg/I	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL = 0.03)
	E: • Please see watermark "Original	mg/I	IS 3025 (Part 2): 2019	5	15	BDL (DL = 0.03)

e watermark "Original Test Report" to confirm the nutbenticity of this report. Results shall be referred to tested sample(s) and applicable to tested parameters only. ◆ Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Lightley of Anacon Labs is limited to invoiced amount only. • Non-perishable and afternate source for drinking water. • "mpl" is equivalent to "poin". • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument /method and shall be

REMARKS: As requested by the client, sample was tested for above parameters only. The submitted Sample complies with 18:10500:2012, for tests conducted, indicating that it is

Verified By

Mangesh Funde Technical Manager

Spetial Raut Deputy Technical Manager

END OF REPORT-

Authorized Signatory

Chintaly Garway Deputy Quality Manager

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experienced will be significantly better than the current one, we welcome your feedback on feedback@anacon.in

Anacon Laboratories Pvt. Ltd. Nagpur Lab

PP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 ← + 91 8045685558
Email: info@anacon.in

https://www.anaconlaboratories.com





भारत सरकार GOVERNMENT OF INDIA पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE

Regional Office (WCZ) Ground Floor, East Wing New Secretariat Building Civil Lines, Nagpur - 440001

E-mail: apecfcentral-ngp-mef(@gov.in-

F No:3-16/2015

Date: 05.02.2018

To.

Scientist 'E'
IA Division (Coal Mining)
Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003

Sub: Environmental dearance granted for expansion of Bhatadi OC Expn. Project from 0.65 MTPA to 0.975 MTPA within existing ML area of 847.37 hat of M/s. Western Coalfields Limited focated at Chandrapur, Maharashtra

Ref:

Ministry of Environment, Forests & Climate Change letter no. J-11015/151/2014-IA-II(M)
dated 19.03 2015

Sir.

I am directed to invite your kind attention on the above subject and letter under reference. Monitoring report of compliance to conditions stipulated in Environment Clearance accorded expansion of Bhatadi OC Expr. Project from 0.65 MTPA to 0.975 MTPA within existing ML area of 847.37 hat of M/s. Western Coalfields Limited located at Chandrapur, Maharashtra is enclosed herewith. Site inspection has been carried out on 22.01 2018.

Ministry vide letter dated 19.03.2015 granted environmental clearance for the project for a production capacity of 0.975 MTPA over an area of 847.37 ha. Effluent treatment plant has been provided for the workshop. Sewage treatment plant for the colony is under construction.

Green belt has been developed over an area of 56.37 ha, with 182350 no.s of trees of different species. Plantation has been carried out on waste dumps, road side, near offices and colony. Environmental quality monitoring is being carried out regularly through CMPDIL, Nagpur, a NABL accredited Laboratory. An amount of Rs. 429.11 Lakhs have been spent on CSR works in the surrounding areas of the project. CSR activities included social empowerment, women empowerment and plantation. Compliance status of conditions stipulated in environmental clearance granted for the project found to be satisfactory.

This issues with the approval of APCCF(Central), Regional Office, Nagpura

Suresh Kumar Adapa Scientist 'D'

Encl: as above

Copy to:

- Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-110 003
- Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indiral Paryavaran Bhawan, Aligany, Jorbagh Road, New Delhi-110003
- 3 Sub Area Manager, Padmapur Sub Area, Office of the Area General Manager, Chandrapur Area, Near Mahakali Collery, Post Babupeth, Chandrapur-442403

4. Guard file

Suresh Kumar Adapa Scientist :D

Scientist 'D'

ENV. MONITORING REPORT

Annexure-J

STRICTLY RESTRICTED FOR COMPANY USE ONLY

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL / Government

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

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.



APRIL 2023 TO JUNE 2023

Environment Laboratory **CMPDI**

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

AN ISO 9001:2015 COMPANY

CMPDI RI-IV, NAGPUR 1

INDEX

SI. No.	PARTICULARS	PAGE NO.
1	HEAVY METAL ANALYSIS REPORT	1 TO 19

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report

Air quality monitoring data for heavy metals

Ambient

TEST REPORT NO.	RIN/TR/JUNE /	HM37		DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.),WCL	(HQ), NAGPUR		SAMPLE DESCRIPTION	AIR SAMPLE
TEST REQUIRED	Heavy metals (As	, Pb, Ni, Cr & Cd) in air samples (ASTM D 42	185)	
NAME OF AREA	CHANDRAPUR			SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BHATADI OC			SAMPLING PLAN : LQR 47	
No. of Pages	1		•		_

SI No.	Name of location	Location Code	Date of sampling
1	BHATADI SECURITY POST	CBOA-1	01-04-2023
2	BHATADI MANAGER OFFICE	CBOA-2	01-04-2023
3	BHATADI VILLAGE	CBOA-3	01-04-2023
4	VADOLI VILLAGE	CBOA-4	02-04-2023

Sl. No.	Parameter	Method of	Detection		Obse	erved Value		National Ambient Air Quality
31.140.	rurumeter	analysis	limit	CBOA-1	CBOA-2	CBOA-3	CBOA-4	Standard NAAQS, 2009
1	Arsenic, µg/m³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL	0.006 µg/m ^{3 (Annual} average)
2	Lead, μg/m3	IS 5182 PART 22	7.0 μg/m ³	BDL	BDL	BDL	BDL	1.0 µg/m ³ (24 Hourly average)
3	Nickle, µg/m³	ASTM D 4185	0.007 μg/m ³	0.0079	0.0071	BDL	BDL	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m³	ASTM D 4185	0.0045 μg/m ³	BDL	BDL	BDL	BDL	**
5	Cadmium, µg/m³	ASTM D 4185	0.0015 µg/m ³	BDL	BDL	BDL	BDL	**
6	Mercury, μg/m3	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	BDL	**

BDL: BELOW DETECTION LIMIT

12000

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU AUTHORIZED SIGNATORY

- This Report refers to the values related to the items tested.
- 2 This Report cannot be reproduced in part or full without written permission of the management.
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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report

Air quality monitoring data for heavy metals

Ambient

TEST REPORT NO.	RIN/TR/JUNE /HM41		DATE OF ISSUE	31-08-2023
NAME OF CUSTOMER	GM(ENV.),WCL(HQ), NAGP	JR	SAMPLE DESCRIPTION	AIR SAMPLE
TEST REQUIRED	Heavy metals (As, Pb, Ni, Cr &	Cd) in air samples (ASTM D 4	185)	
NAME OF AREA	CHANDRAPUR		SAMPLING METHOD : LSOP 4	
NAME OF PROJECT	BHATADI OC		SAMPLING PLAN: LQR 47	
No. of Pages	1			_

SI No.	Name of location	Location Code	Date of sampling
1	CHP/MGR LOADING POINT	CBOF-1	15-04-2023
2	WEIGH BRIDGE	CBOF-2	15-04-2023
3	WORKSHOP	CBOF-3	15-04-2023

Sl. No.	Parameter	Method of	Detection		Obs	erved Value	National Ambient Air Quality
31. 140.	rarameter	analysis	limit	CBOF-1	CBOF-2	CBOF-3	Standard NAAQS, 2009
1	Arsenic, µg/m³	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	0.006 µg/m ^{3 (Annual} average)
2	Lead, μg/m3	IS 5182 PART 22	7.0 μg/m ³	BDL	BDL	BDL	1.0 µg/m ³ (24 Hourly average)
3	Nickle, µg/m ³	ASTM D 4185	0.007 μg/m ³	0.0081	0.0076	BDL	0.02 µg/m3 (Annual average)
4	Total Chromium, µg/m³	ASTM D 4185	0.0045 μg/m ³	BDL	BDL	BDL	**
5	Cadmium, µg/m³	ASTM D 4185	0.0015 µg/m ³	BDL	BDL	BDL	**
6	Mercury, μg/m3	ASTM D 4185	0.0007 µg/m ³	BDL	BDL	BDL	**

BDL: BELOW DETECTION LIMIT

12000

SCIENTIFIC ASSISTANT

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WESTERN COALFIELDS LIMITED (A Subsidiary of Coal India Ltd.) OFFICE OF THE AREA GENERAL MANAGER Ph.No. (07172)-253325-25 Fax: (07172)-251882 CHANDRAPUR (MS) = 442403

Ref.No. WCL/CHA/AGM/CMC/BOC/COAL/2020-21/W.O.No.6/602_

DT. 26.12.2020

To

M/s.Sherawali Coal Carriers (Pvt.) Ltd. (Ex-Servicemen Agency) Regd. Off: 1062, street No.70, Devaram Park Trinager, New Delhi-35

Site Office: Near Padmapur Weigh bridge Padmapur PO: Urja Naga, CHANDRAPUR (M.S)

WORK ORDER

Ref. 1) LOA NO:WCL/GM(CMC)/LOA/Ex-servicemen/2020-21/53 dated 23.12.2020.

Dear Sir.

With reference to the above LOA issued by GM(CMC), WCL, we are pleased to issue you this Work Order for the Coal transportation work as detailed below on the terms and conditions of MOU between DGR and CIL, as applicable to all transportation contract works to DGR sponsored Ex-servicemen Transport Companies.

Description of work	Quantity (in Te.)	Rate/Te. in Rs. and Paise (Excluding Goods & Service Tax)	Value of the work in Rs. (Excluding Goods & Service Tax)
Job Transportation of ROM coal from coal stock yard, Heap No.1.8.4 of Bhatadi OC Mine to New CHP Crusher at Padmapur OCM via Excavation workshop weighbridge at Bhatadi OCM (for weighment). New Embankment Road, New coal transportation road behind Hanuman Mandir of Bhatadi village, New Erai South side Bridge, Padmapur coal stock neap no. 7. New Weigh Bridge at POCM (for reweighment) by hiring of tippers, loaded by hired Pay loader & unloading, at receiving end / hopper of the New CHP at Padmapur OCM, Lead slab:-8 to 9 Km. Average daily quantity to be loaded & transported for job will be: 3000 Te.	5,40,000	Loading : 11.216 <u>Transportation : 75.885</u> Total = 87.081	Rs.4,70,23,740.00

Total value of the work (Excluding Goods & Service Tax): Rs. 4,70,23,740.00 (Total Rupees Four Crore Seventy Lakh Twenty Three Thousand Seven Hundred Forty Only)

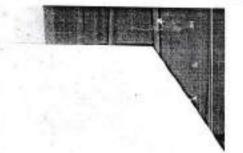
The period of contract is 180 (One Hundred Eighty) days.

The actual date of commencement of the work is 24.12.2020 as certified by Mine Manager, Bhatadi OCM vide letter No.WCL/CHA/PSA/BOCM/MGR/741 Dtd.24.12.2020. The date of commencement of work will be reckoned from 24.12.2020 as actual date of commencement is earlier. Thus the date of completion will be on Dt.21.06.2021.

These rates are approved by Competent Authority for higher capacity tippers & communicated vide letter No. WCL/GM(CMC)/ESM/2020/253 Dt.10.07.2020 and the rates are effective from 09.07.2020. The rates are based on diesel price of Rs.77.71/ltr. as on 01.07.2020.

You will have to execute the work as per the terms and conditions prevailing as agreed upon unless otherwise instructed by the Sub Area Manager, Padmapur Sub Area who will be the Engineer-In-Charge for this work who is responsible for supervising and administering the contract as per terms and conditions of MOU between DGR and Cit. and circular No.WCL/D(T)/secy/90/226 dated 23.01.2012 of D.T (Oprn.).





1) SECURITY DEPOSITS -

24 44

2 . 5 . 6

A) As per MOU artered into the security deposit amount will be governed by the following clause:

"An Ex-servicemen Co. will be required to deposit 5% of annual work order value subject to a maximum of subsidiary in monthly installment at the rate of 3% of each running bill or of Rs. 10,000/- per month whichever installment shall begin from fifth month of the commencement of work. However, if Ex-servicemen company approved by the Company."

2) PENALTY CLAUSE-

In the event of the ESM Agency feature to comply with the required progress in terms of the agreed time and progress chart or to complete the work and clear the site on or before the date of completion of contract or extended date of completion, he shall without prejudice to any other right or remedy available under the law to the company on account of such breach, shall become liable to pay for penalty as under:-

(e) If the average daily progress of work during the calendar month is less than the stipulated rate indicated in the detailed funder notice, panalty as detailed below will be levied:-

(i) If the average daily progress of work executed during the calendar month is more than 80% and less than 100% of the stipulated rate of progress, penalty equal to 10% of the contract value of shortfall in work shall be levied.

(ii) If the average daily progress of work executed during the calendar month is less than 30% of the stipulated rate, penalty equal to 20% of the contract value of the shortfall in work will be levied.

(iii) The aggregate of the penalties levied shall not exceed 10% of the total contract value.

Penalties will be calculated every month and withheld. The contractor shall be allowed to make up the shortfall in the succeeding three-months within the stipulated time of completion once the shortfall is fully made up, the so withheld penalty will be released.

3) PAYMENT OF BILLS

As per MOU between Cil. and DGR, you sha'll submit Fortnightly running on account bills to Sub Area Manager, Padmapur Sub Area supported with receipt / challans for the measurement of work certified by the Official authorized by Sub Area Manager, Padmapur Sub Area. Bills for the work done shall be paid at the Area Finance Dept., Chandrapur Area, in the following fortnight.

A certificate is to be endorsed by the unit that the required quantity of coal has been transported by contractor.

Paying Authority -- Area Finance Manager, Chandrapur Area. Income-tax shall be deducted at sources as per Income-tax rules.

4) ESCALATION IN RATES

Escalation will be paid as per MOU entered with Ex-servicemen and the terms and condition decided by CMC, WCL HQ, Nagpur.

- You shall submit your EFT No. to the Area Finance, Chandrapur Area for depositing your payment directly in your Bank account.
- 6) The onus of payment of goods and service tax for the job is on WCL as job is covered under GTA services.

7) STATUTORY OBLIGATION ON CONTRACTOR'S ACCOUNT.

Statutory obligations for engagement of contract labour (to be on contractor's account) are to be specified as under:-

- Maintenance of Statutory records.
- Payment of workmen's compensation.
- Holding of License as required under statute.
- Compliance with the provisions of safety regulations
- provision of medicines/medical facilities to workmen to be engaged by the contractor
- Any other laws which may be applicable during tenure of contract or extension granted by the management.
- Any other items of special nature for a particular unit.

...

8) CONTRACTOR'S REPRESENTATION AT SITE.

You shall depute your Agent/representative to be in charge of the work during the period of contract. The Agent/Representative shall receive instructions on the contractor's behalf from the Sub Area Manager, Padmapur Sub Area / Mine Manager, BOCM or any other official authorised by him for the purpose.

- 9) You shall comply with all the provisions of Contract Labour (Regulation & Abolition) Act, 1970 and rules framed there under. You shall have to obtain license from license granting authority as required under statute.
- 10) You should not engage contractual workers i.e. to say that he should employ his regular Employees as per MOU only against whom PF and other statutory deduction are made as a proof of being on his role.
- 11) You shall ensure that the driver engaged by him does not drive the vehicle at a Speed more than the speed limit as prescribed by the Manager/Agent for different parts of Colliery premises.
- 12) You shall be responsible for maintenance of attendance for persons engaged by him in different shifts in appropriate register and the same shall be produced for inspection as and when demanded by Manager/Agent or any other authorized person from Company Hgrs or DGMS.
- 13) You shall provide Photo Identity cards to all persons engaged by him and submit photocopies of the same in the Office of the Sub Area Manager, Padmapur Sub Area. All the workers will carry their Photo-Identity Cards while on duty.
- 14) All workmen will be trained under mine vocational Training Rules, 1986.
- 15) Contractors will deposit Xerox copies of the driving license of the drivers to the Manager of the Mine.
- 16) You shall maintain the daily attendance register of his workmen and submit it to the Safety Officer of the Mine daily for checking.
- 17) You shall post supervisors to regulate the work at loading and unloading points.
- 18) You shall ensure that your workmen are engaged for maximum number of hours applicable as per Mines Rules. No worker should be engaged beyond the limit of working hours as stipulated in Mines Rules.
- 19) You will make payments to your workers by issuing cheque or by depositing their wages in their Saving Bank accounts in terms and conditions of the work award/agreement. The wages to be paid should be as per recommended HPC rates. It is further to be noted that all wage bills should contain the cheque No. and date.
- 20) You will nominate one competent person to check the brakes and lights of the vehicles and maintain register in this respect. This register shall be submitted to Colliery Engineer periodically for verification.
- 21) You shall be liable for prosecution for breach of any provision of the Mines act, C.M.R. or any other rules made under Mines act by him or his workers.
- Temporary passes/Token to be issued to the contract labourers which may be collected back at the end of their working shift.
- 23) You are advised to submit an undertaking to the effect that, the particulars of labourers provided by you are correct and you would be responsible for their conduct inside the Area.
- 24) Tippers will be loaded up to the maximum limit permissible by the R.T.O. The coal transportation tippers should be made totally covered by leak proof tarpaulin properly secured.
- 25) All workmen will have to be undergone for initial/periodical medical examinations, the cost of IME/PME shall be borne by the contractor and only those persons found fit for working under IME/PME shall be employed by the contractor.
- 26) Electric supply may be provided to the contractor and payment of electricity charges will be made by the contractor as per the actual reading of the electric meter fitted at the site. No coal is to be issued to the contractor for domestic purpose.
- 27) RESPONSIBILITY OF THE CONTRACTOR: Precautions shall be exercised at all times for the protection of persons (including employees) and property. The Safety required or recommendation by all applicable laws, codes, statutes and regulations will be observed. In case of accidents, the contractor shall be responsible for compliance with all the requirements imposed by the Workmen's Compensation Act or any other similar laws in force, and shall indemnify the company against any claim on this account.
- 28) All other terms and conditions as is applicable for works awarded to Ex-servicemen Agencies shall apply for the above work.



You should also follow the circular No.WCL/D(T)/secy/90/226 dated 23.01.2012 of D.T (Opr.), WCL & MOU between DGR & CIL.

Work order is being issued to you in duplicate. You are requested to return sign and sealed copy of the same to the undersigned as a token of your acceptance within seven days, along with non-judicial Stamp Paper worth R5.500/- (2 Nos.) for execution of the Agreement.

This work order is issued with the approval of Competent Authority.

Yours faithfully

Area General Manager Chandrapur Area

Distribution:-

- General Manager (CMC), WCL, Nagpur
- General Manager (Vigilance), WCL, Nagpur
- General Menager (Oprn.), Chandrapur Area
- Staff Officer (Mining), Chandrapur Area
- Area Finance Manager, Chandrapur Area
- Area Personnel Manager, Chandrapur Area
- Area Sales Manager, Chandrapu: Area
- Sub Area Manager, Padmapur Sub Area He will be the Engineer-In-Charge for this work and will be
 responsible for supervising and administering the contract as per
 terms & conditions of MOU between DGR and CIL and circular
 No.WCL/D(T)/secy/90/226 dated 23.01.2012
 of D.T (Opr.),WCL.
- · Mine Manager, Bhatadi OCM
- Asstt. Labour Commissioner(Central), 1st Floor, Kamal Complex, Near Ambedkar College, Ramnagar, Chandrapur.

F.C. NO. RB/CHA/BOC/Coal Tr./23/36/2020-21 DTD 25.12,2020 for Rs. 1,50,00,000/- (Rupees One Crore Fifty Lakh only).

Area General Manager Chandrapur Area



Issued By: CHANDRAPUR

Authorised by Motor Vehicles Department, Maharashtra

FUEL

DIESEL



Measured

Value

0.59667

TEST RESULT : PASS VALID TILL: 27/Feb/2021

DIESEL DRIVEN VEHICLES

Certified that the vehicle conforms to the standards

prescribed under rule 115(2) of CMV Rules 1989

Light Absorption Coefficient

(Permissible Limit)

2.45

Certificate St. No.:

MH03400090001518

Registration No.:

MH34AD3726

Chassis No.:

MAT44721283H24655

Engine No.:

B591803111H63176393

Class of Vehicle:

Articulated Vehicle

Make:

TATA MOTORS LTD

Model:

LPS4018TC

Vehicle Category:

HEAVY GOODS VEHICLE

Date of Registration:

09/Dec/2011

Emission Norms.

BHARAT STAGE III

DIESEL

Date of Testing:

28/Aug/2020

Auto Emission Testing Centre Code:

MH0340009

Time of Testing: Fee Charged: 14:51:41

Rs.110.0

Fee Charged:

(one hundred ten rupees only)

CHANDRAPUR ,KESHARINANDAN

Testing Centre Name: SHRI

GURUDATTA PUC CENTRE

Centre Address: KESHARINANDAN NAGAR TADOBA RD DURGAPUR

NAGAR TADOBA RO DURGAPUR

CHANDRAPUR,440404

Test Conducted By: ATUL W MAWALE





TEST RESULT FOR DIESEL VEHICLE

STREET, STREET	IDLE RPM	MAX RPM	T 2000000	-
TEST 1	795.0	The state of the s	K_VALUE	OIL TEMP
TEST 2	804.0	2202.0	0.08	255.0
TEST 3		2233.0	0.77	255.0
-	804.0	2221.0	0.94	255.0
AVG	801.33334	2218.56667	0.59667	The second second
48 - 36		2210.00007	V.5966/	255.0

This is a computer generated certificate and does not require signature Fuel Nomes entered by PUC contor MH0340009 manually. Please visit RTO and correct norms

> Shri Gurudatta PVC Center Tadoba Road, Mejer Gate Chandrapur Mob.7507713163



Issued By: CHANDRAPUR

Authorised by Motor Vehicles Department, Maharashtra



TEST RESULT : PASS VALID TILL: 27/Feb/2021

Certificate St. No.:

MH03400090001515

Registration No.:

MH34AB3724

Chassis No.:

MAT447212B3G20976

Engine No.:

8591803111G63158963

Class of Vehicle:

Articulated Vehicle

Make:

TATA MOTORS LTD

Model:

LPS4018 TC

Vehicle Category:

HEAVY GOODS VEHICLE

Date of Registration:

09/Dec/2011

Emission Norms

BHARAT STAGE III

Fuet:

DIESEL

Date of Testing:

28/Aug/2020

Auto Emission Testing Centre Code:

MH0340009

Time of Testing:

13:48:16

Fee Charged: Fee Charged:

Rs.110.0

rupees only)

(one hundred ten

Centre Address: KESHARINANDAN NAGAR TADOBA RD DURGAPUR CHANDRAPUR , KESHARINANDAN

Testing Centre Name: SHRI

GURUDATTA PUC CENTRE

NAGAR TADOBA RD DURGAPUR

CHANDRAPUR, 440404

Test Conducted By: ATUL W MAWALE

DIESEL DRIVEN VEHICLES Certified that the vehicle conforms to the standards

prescribed under rule 115(2) of CMV Rules 1989

run.	Light Absorption Coefficient (Permissible Limit)	Measured White
DIESEL	2.45	0.88



	IDLE RPM	MAX RPM	K_VALUE	A11 MIN 10
TEST 1	840.0	2151.0		OIL TEMP
TEST 2	836.0		0.17	255.0
TEST 3		2089.0	0.99	255.0
	831.0	2129.0	1.48	
AVG	835.66667	2122.0		255.0
		2123.0	0.88	255.0



Issued By: CHANDRAPUR

Authorised by Motor Vehicles Department, Maharashtra

FUEL

DIESEL



Measured

Vieue

1.36

TEST RESULT : PASS VALID TILL: 12/Aug/2021

DIESEL DRIVEN VEHICLES

Certified that the vehicle conforms to the standards prescribed uncer rule 115(2) of CMV Rules 1989

Light Absorption Coefficient

(Permissible Limit)

1.62

Corificate St No.:

MH03400090001399

Registration No.:

MH34BG2321

Chassis No.:

MATS4106113C08392

Engine No.:

ISBE5.91804081C63676728

Class of Vehicle:

Goods Carrier

Make:

TATA MOTORS LTD

Model

50395668000RBT01

Vehicle Catugory:

HEAVY GOODS VEHICLE

Date of Registration.

29/May/2018

Emission Noms

BHARAT STAGE IV

Fuel

DIESEL

Date of Testing.

13/Aug/2020



Auto Emission Testing Centre Code:

MH0340009

Time of Testing: Fee Charged: 10:21:25

fee Charged:

Rs.110.0

(one huncred ten

rupees only)

Testing Centre Name: SHRI GURUDATTA PUC CENTRE

Centre Address: KESHARINANDAN NAGAR TADOBA RD DURGAPUR

CHANDRAPUR , KESHARINANDAN NAGAR TADOBA RD DURGAPUR

CHANDRAPUR,440404

Test Conducted By: ATUL W MAWALE



TEST RESULT FOR DIESEL VEHICLE

SET I	IDLE RPM	MAX RPM	K_WALUE	OIL TEMP
TEST 1	826.0	2536.0	0.78	255.0
TEST 2	813.0	2506.0	1.56	255.0
TEST 3	813.0	2491.0	1.74	255.0
AVG	817.33334	2511.0	1.36	255.0

This is a computer generated conficate and does not require signature

Shri Gurudatta PVC Center Tadoba Road, Mejer Gate Chandrapur Mob.7507713166



Issued By: CHANDRAPUR

Authorised by Motor Vehicles Department, Maharashtra

FUEL

DIESEL



Moosured

Value

0.73

TEST RESULT : PASS VALID TILL: 27/Feb/2021

DIESEL DRIVEN VEHICLES

Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

Light Absorption Coefficient

(Permissible Limit)

2.45

Certificate St. No.:

MH03400090001520

Registration No.:

MH34AB3728

Chassis No.:

MAT447212B3H24743

Engine No.:

B591803111H63176423

Class of Vehicle.

Articulated Vehicle

Make:

TATA MOTORS LTD

Model:

LPS4018TC

Vehicle Category:

HEAVY GOODS VEHICLE

Date of Registration:

09/Dec/2011

Emission Norms:

BHARAT STAGE III

Flet

DIESEL

Date of Testing:

28/Aug/2020



Auto Emission Testing Centre Code:

Time of Testing Fee Charged:

14:37:37 Rs.110.0

Fee Charged:

(one hundred ten

rupees only)

MH0340009

Testing Centre Name: SHRI

GURUDATTA PUC CENTRE

Centre Address: KESHARINANDAN NAGAR TADOBA RD DURGAPUR.

CHANDRAPUR , KESHARINANDAN NAGAR TADOBA RD DURGAPUR

CHANDRAPUR, 440404

Test Conducted By: ATUL W MAWALE



TEST RESULT FOR DIFSEL WEHICLE

	IDLE FUPM	MAX RPM	K_VALUE	OIL TEMP
TEST 1	795.0	2512.0	0.31	255.0
TEST Z	800.0	2609.0	0.92	255.0
TEST 3	800.0	2441.0	0.95	255.0
AVG	798.33334	2520.66667	0.73	255.0

This is a computer generated certificate and does not require signature Fuel Norms entered by PUC center MH0340009 manually, Please with RTO and correct norms

> Shri Gurudatta PVC Centes Tadoba Road, Mejer Gate Chandrapur Mob.7507713155

10/29/23, 3:56 PM Email **Annexure-L**

Email Area Nodal Officer

Surface Water Monitoring & Drinking Water Monitoring Reports for Q.E. September-2023 w.r.t. WCL-Chandrapur area.

From: Area Nodal Officer <anoenv.cha@coalindia.in>

Sun, Oct 29, 2023 03:55 PM

3 attachments

Subject: Surface Water Monitoring & Drinking Water Monitoring

Reports for Q.E. September-2023 w.r.t. WCL-Chandrapur

area.

To: ms <ms@mpcb.gov.in>, Dr. V. M. Motghare

<jdair@mpcb.gov.in>, rochandrapur

<rochandrapur@mpcb.gov.in>, SRO Chandrapur

<srochandrapur@mpcb.gov.in>, EC Compliance

Maharashtra <eccompliance-mh@gov.in>

Cc : GM ENVIRONMENT and FOREST, HOD

<gmenvironment.wcl@coalindia.in>

Dear Sir.

Please find attached herewith, Surface Water Monitoring & Drinking Water Monitoring Reports for Q.E. September-2023 w.r.t. WCL-Chandrapur area.

This is for your kind information.

Regards,

Area Nodal Officer (Environment) WCL, Chandrapur Area





G20 Logo.jpg 29 KB

- Surface Water Monitoring Report Q.E. Sept. 2023 (WCL-CHA).pdf 526 KB
- **Drinking Water Monitoring Report Q.E. Sept. 2023 (WCL-CHA).pdf** 608 KB

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SURFACE WATER MONITORING REPORT

CHANDRAPUR AREA

WESTERN COALFIELDS LTD.

JOB NO.4634420034



QE-SEPTEMBER 2023

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

CMPDI

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

AN ISO 9001:2015 COMPANY

Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report Surface water quality monitoring data



TEST REPORT NO.	RIN/TR/SEPT-23	3/SW15	DATE OF ISSUE	27-10-2023
NAME OF CUSTOMER	GM(ENV.), WCI	(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	CHANDRAPUR		SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	BHATADI OC		SAMPLING PLAN: LQR 47	
NO OF PAGES	1			-

NAM	E OF LOCATION: UP STREAM OF	ARGE	SAMPLING DATE: 17-07-2023	
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.28
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	250
4	Oil & Greese - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.9
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44 : 1993 (RA 2014)	2	5.4
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL
9	Hexavalent Chromium -mg/l	exavalent Chromium -mg/I APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017		BDL
10	Copper (as Cu) -mg/I	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	0.13
15	Iron (as Fe) -mg/I	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.51
17	Sulphate (as SO_4^{-2}) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	41.6
18	Chlorides (as Cl ⁻)- mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	20

BDL: BELOW DETECTION LIMIT

Quet

SCIENTIFIC ASSISTANT

DEEPANSHU SAHU AUTHORIZED SIGNATORY

¹ This Report refers to the values related to the items tested.

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Environment Laboratory CMPDI RI-IV, NAGPUR

Test Report Surface water quality monitoring data



TEST REPORT NO.	RIN/TR/SEPT-23	/SW16	DATE OF ISSUE	27-10-2023
NAME OF CUSTOMER	GM(ENV.), WCL	(HQ), NAGPUR	SAMPLE DESCRIPTION	WATER SAMPLE
NAME OF AREA	CHANDRAPUR		SAMPLING METHOD: LSOP 5	
NAME OF PROJECT	BHATADI OC		SAMPLING PLAN: LQR 47	
NO. OF PAGES	1			•

NAM	E OF LOCATION: DOWN STREAM	OF ERAI RIVER W.R.T. MINE DISCH	ARGE	SAMPLING DATE: 17-07-2023
SL. NO.	PARAMETER	TEST METHOD	DETECTION LIMIT	ANALYSIS RESULT
1	pH Value	IS 3025 Part-11 Electrometric Method: 2017	2	7.21
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	260
4	Oil & Greese - mg/l	IS 3025 (Part 39): 1991 (RA 2003) Partition gravimetric Method	2	BDL
5	Dissolved Oxygen - mg/l	IS 3025 (Part-38):1989 (RA 2003) Winkler Azide Method	0.1	4.7
6	B.O.D. (3 days at 27°C) - mg/l	IS 3025 Part 44: 1993 (RA 2014)	2	8.4
7	Arsenic (As)-mg/l	APHA, 23rd Edition 3114 C AAS-VGA Method:2017	0.005	BDL
8	Lead as (Pb) -mg/l	APHA, 23rd Edition 3113 B AAS GTA Method:2017	0.005	BDL
9	Hexavalent Chromium -mg/l	APHA, 23rd Edition 3500-Cr B Colorimetric Method: 2017	0.01	BDL
10	Copper (as Cu) -mg/I	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	0.44
15	Iron (as Fe) -mg/l	IS 3025 Part-53 AAS Flame Method:2014	0.06	BDL
16	Nitrate Nitrogen - mg/l	APHA, 23rd Edition 4500-NO ³ B UV Spectrophotometric Method: 2017	0.5	0.63
17	Sulphate (as SO ₄ ⁻²) -mg/l	APHA (23rd Edition) 4500E Turbidimetric Method:2017	2	47.9
18	Chlorides (as Cl ⁻)- mg/l	IS 3025 Part-32 1988 Argentometric Method:2014	2	22

BDL: BELOW DETECTION LIMIT

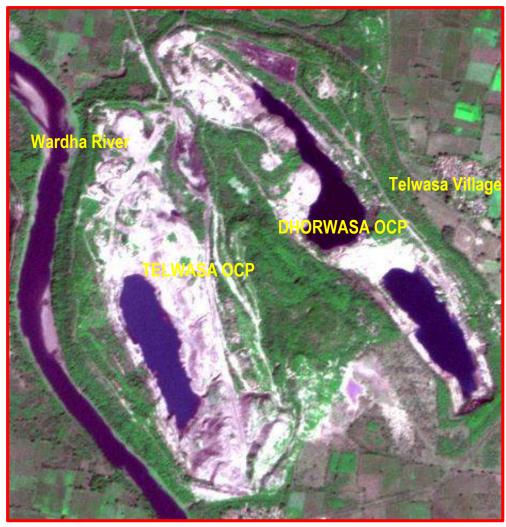
SCIENTIFIC ASSISTANT

DEEPANSHU SAHU AUTHORIZED SIGNATORY

¹ This Report refers to the values related to the items tested.

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Land Restoration / Reclamation Monitoring of less than 5 million Cu. M. (Coal+OB) Capacity Opencast Coal Mines of Western Coalfields Limited based on Satellite Data for the Year 2020



Submitted to WESTERN COALFIELDS LIMITED



Land Restoration / Reclamation Monitoring of less than 5 million Cu. M. (Coal+OB) Capacity Opencast Coal Mines of Western Coalfields Limited based on Satellite Data for the Year 2020

March-2021



Remote Sensing Cell Geomatics Division CMPDI, Ranchi

Job No 561410027

Table-1 Projectwise Land Reclamation Status in Opencast Projects of WCL

(<5 Million cu. M coal+OB) based on Satellite Data of the year 2020-21)

(Area in Ha)

				T				Plant	ation									,	rea in Ha)
SI.No		Total Lea	asehold		nnical mation		ogical mation		Other Pla	antations		Area	under	Total Exc	avated	Plan	rea under tation		l Area
SI.NO	Project	Are	ea		under filling	Excav	tion on rated / led Area	Plantat Externa Burden	l Over	Social F Ava Plantati	nue	Active	ctive Mining Area		a	Gene	en Cover rated in ehold)		ider mation
1	2	3			4		5	6		7	7	ě	3	9 (=4+.	5+8)	10 (=.	5+6+7)	11(=	4+5)
		2017	2020	2017	2020	2017	2020	2017	2020	2017	2020	2017	2020	2017	2020	2017	2020	2017	2020
1	Kolegaon	349.00	397.52	0.00	0.00	0.00	0.00	37.41	72.83	22.23	25.63	39.26	48.03	39.26	48.03	59.64	98.46	0.00	0.00
				0.00%	0.00%	0.00%	0.00%					100.00%	100.00%			17.09%	24.77%	0.00%	0.00%
2	Bellora-Naigaon	398.66	664.80	8.81	53.02	9.81	12.75	21.87	35.62	28.94	28.94	122.24	91.53	140.86	157.30	60.62	77.31	18.62	65.77
				6.25%	33.71%	6.96%	8.11%					86.78%	58.19%			15.21%	11.63%	13.22%	41.81%
3	Ghonsa	278.68	278.68	0.00	7.28	0.00	0.00	2.10	2.55	4.65	4.65	46.87	60.29	46.87	67.57	6.75	7.20	0.00	7.28
				0.00%	10.77%	0.00%	0.00%					100.00%	89.23%			2.42%	2.58%	0.00%	10.77%
4	Ballarpur	549.64	242.64	67.87	80.79	12.99	15.00	67.73	69.49	14.03	9.74	30.12	17.47	110.98	113.26	94.75	94.23	80.86	95.79
				61.16%	71.33%	11.70%	13.24%					27.14%	15.42%			17.24%	38.84%	72.86%	84.58%
5	Junad EXTN	420.97	449.63	34.51	34.51	2.45	2.46	36.14	65.57	26.86	28.81	56.54	61.54	93.50	98.51	65.45	96.84	36.96	36.97
				36.91%	35.03%	2.62%	2.50%					60.47%	62.47%			15.55%	21.54%	39.53%	37.53%
6	Urdhan	315.00	315.00	0.00	2.36	0.00	0.00	3.34	5.79	0.00	6.87	21.46	19.45	21.46	21.81	3.34	12.66	0.00	2.36
				0.00%	10.82%	0.00%	0.00%					100.00%	89.18%			1.06%	4.02%	0.00%	10.82%
7	Telwasa	271.91	271.91	44.61	101.67	4.68	4.68	34.20	50.71	23.62	23.62	69.64	12.58	118.93	118.93	62.50	79.01	49.29	106.35
				37.51%	85.49%	3.94%	3.94%					58.56%	10.58%			22.99%	29.06%	41.44%	89.42%
8	Gouri Expn(A)	676.53	676.53	106.57	106.53	28.56	29.20	118.61	150.98	96.11	96.21	86.60	95.57	221.73	231.30	243.28	276.39	135.13	135.73
				48.06%	46.06%	12.88%	12.62%					39.06%	41.32%			35.96%	40.85%	60.94%	58.68%
9	Bhatadi	838.14	847.37	21.27	21.94	0.00	0.00	13.28	30.86	45.63	46.12	56.52	71.92	77.79	93.86	58.91	76.98	21.27	21.94
				27.34%	23.38%	0.00%	0.00%					72.66%	76.62%			7.03%	9.08%	27.34%	23.38%
10	Gondegaon	917.00	791.40	32.88	42.29	0.00	0.00	52.00	73.47	84.03	62.15	101.71	157.19	134.59	199.48	136.03	135.62	32.88	42.29
				24.43%	21.20%	0.00%	0.00%					75.57%	78.80%			14.83%	17.14%	24.43%	21.20%
11	Kolarpimpri	1484.97	1488.42	7.54	10.71	1.86	4.02	83.36	115.55	7.74	8.21	137.70	140.37	147.10	155.10	92.96	127.78	9.40	14.73
				5.13%	6.91%	1.26%	2.59%					93.61%	90.50%			6.26%	8.58%	6.39%	9.50%
12	Chhinda	106.68	106.68	0.00	0.00	0.00	0.00	20.44	20.44	2.80	2.87	22.78	23.29	22.78	23.29	23.24	23.31	0.00	0.00
				0.00%	0.00%	0.00%	0.00%					100.00%	100.00%			21.78%	21.85%	0.00%	0.00%
13	Gouri deep	356.11	339.10	0.00	0.00	0.00	0.00	0.00	0.00	6.19	8.00	44.29	51.04	44.29	51.04	6.19	8.00	0.00	0.00
				0.00%	0.00%	0.00%	0.00%					100.00%	100.00%			1.74%	2.36%	0.00%	0.00%
14	Juna-Kunada	325.87	325.87	13.25	23.92	0.00	0.00	35.98	66.18	43.71	42.20	41.90	62.84	55.15	86.76	79.69	108.38	13.25	23.92
				24.03%	27.57%	0.00%	0.00%					75.97%	72.43%			24.45%	33.26%	24.03%	27.57%
15	*Adasa UG to OC		564.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.48	0.00	0.00	0.00	0.00	0.00	8.48	0.00	0.00
				0.00%	0.00%	0.00%	0.00%					0.00%	0.00%			0.00%	1.50%	0.00%	0.00%
	TOTAL	7289.16	7759.95	337.31	485.02	60.35	68.11	526.46	760.04	406.54	402.50	877.63	913.11	1275.29	1466.24	993.35	1230.65	397.66	553.13
				26.45%	33.08%	4.73%	4.65%					68.82%	62.27%	17.50%	18.89%	13.63%	15.86%	31.18%	37.72%

^{*} Land Reclamation of Adasa UG to OC has been included for Land reclamation monitoring in the year 2020-21 on request of WCL.

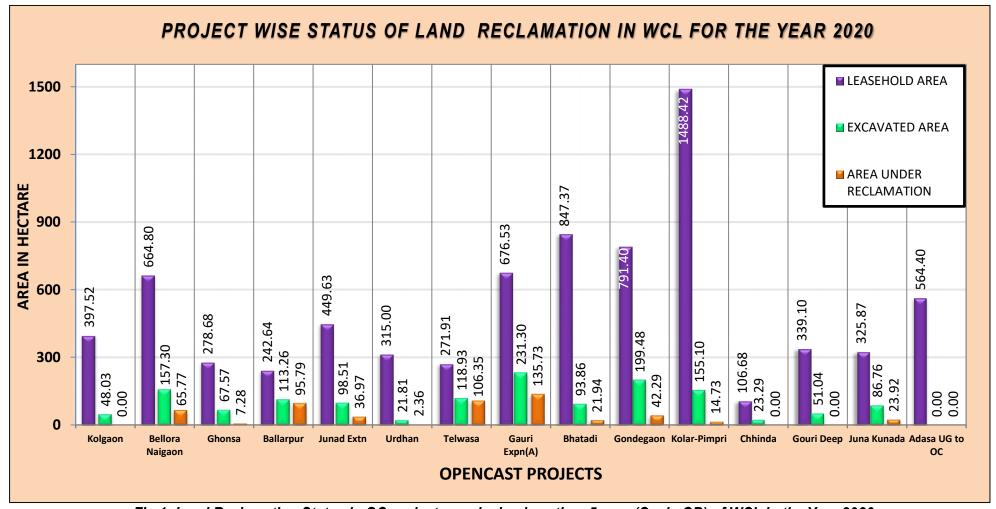
Leasehold boundary of Kolegaon ,Ballarpur ,Junad Extn ,Bhatadi ,Gondegaon and,Kolarpimpri OC mine have been modified as per latest EC Boundary.

Leasehold boundary of Project like bellora-Naigaon and Gauri Deep OC ia as per keyplan provided by area .

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

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

Job No 561410027 Viii



Flg.1: Land Reclamation Status in OC projects producing less than 5mcm (Coal +OB) of WCL in the Year 2020

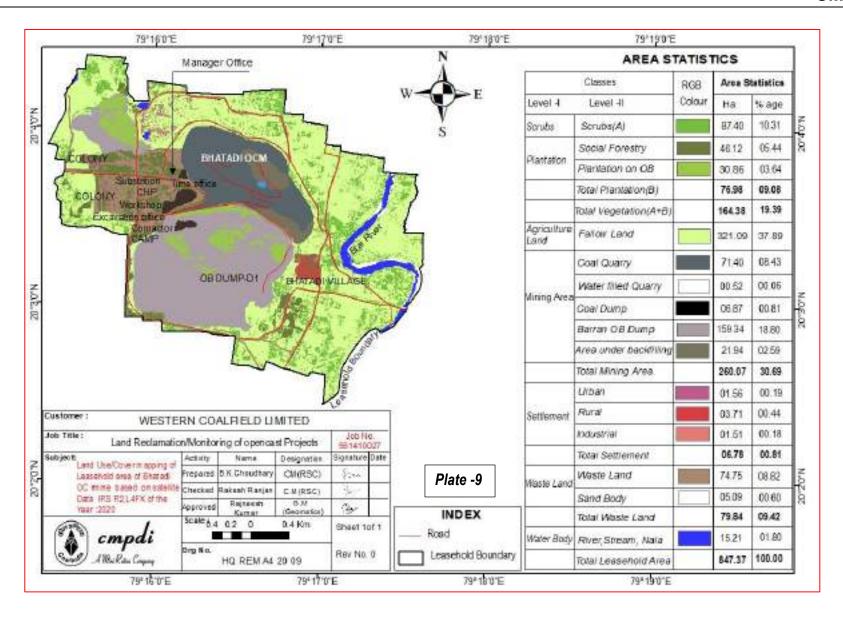
Job No 561410027 Viii

TABLE 2: STATUS OF LAND USE/RECLAMATION IN OC MINES (<5MCU.M) OF WESTERNCOALFIELD LTD BASED ON SATELLITE DATA OF THE YEAR 2020

Area in Ha

	Kolg	iaon	Bellora -	-Naigaon	Gh	onsa	Balla	rnur	Juna	l Extn	Urd	han	Telv	vasa	Gouri	Expn(A)	Bha	atadi	Gond	egaon	Kolar-l	Pimnri	Chł	ninda	Gouri	i Deep	Juna	Cunada	Adasa L	IG to OC	Tot	tal
	Area	% %	Area	%	Area	%	Area	%	Area	%	Area	%	Area	% %	Area	- %	Area	%	Area	- %	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%
Dense Forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Open Forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scrubs	54.23	13.64	63.16	9.50	61.00	21.89	2.47	1.02	27.48	6.11	29.02	9.21	2.32	0.85	18.64	2.76	87.40	10.31	46.43	5.87	242.03	16.26	9.98	9.36	39.90	11.77	11.25	3.45	129.60	22.96	824.91	10.63
Total Scrubs	54.23	13.64	63.16	9.50	61.00	21.89	2.47	1.02	27.48	6.11	29.02	9.21	2.32	0.85	18.64	2.76	87.40	10.31	46.43	5.87	242.03	16.26	9.98	9.36	39.90	11.77	11.25	3.45	129.60	22.96	824.91	10.63
Social Forestry	25.63	6.45	28.94	4.35	4.65	1.67	9.74	4.01	28.81	6.41	6.87	2.18	23.62	8.69	96.21	14.22	46.12	5.44	62.15	7.85	8.21	0.55	2.87	2.69	8.00	2.36	42.20	12.95	8.48	1.50	402.50	5.19
Total Social Forest	25.63	6.45	28.94	4.35	4.65	1.67	9.74	4.01	28.81	6.41	6.87	2.18	23.62	8.69	96.21	14.22	46.12	5.44	62.15	7.85	8.21	0.55	2.87	2.69	8.00	2.36	42.20	12.95	8.48	1.50	402.50	5.19
Plantation on OB Dump	72.83	18.32	35.62	5.36	2.55	0.92	69.49	28.64	65.57	14.58	5.79	1.84	50.71	18.65	150.98	22.32	30.86	3.64	73.47	9.28	115.55	7.76	20.44	19.16	0.00	0.00	66.18	20.31	0.00	0.00	760.04	9.79
Total Plantation on OB Dump	72.83	18.32	35.62	5.36	2.55	0.92	69.49	28.64	65.57	14.58	5.79	1.84	50.71	18.65	150.98	22.32	30.86	3.64	73.47	9.28	115.55	7.76	20.44	19.16	0.00	0.00	66.18	20.31	0.00	0.00	760.04	9.79
Plantation on Backfill	0.00	0.00	12.75	1.92	0.00	0.00	15.00	6.18	2.46	0.55	0.00	0.00	4.68	1.72	29.20	4.32	0.00	0.00	0.00	0.00	4.02	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.11	0.88
Total Plantation on backfill (Biological Reclamation)	0.00	0.00	12.75	1.92	0.00	0.00	15.00	6.18	2.46	0.55	0.00	0.00	4.68	1.72	29.20	4.32	0.00	0.00	0.00	0.00	4.02	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.11	0.88
Total Green Cover generated	98.46	24.77	77.31	11.63	7.20	2.59	94.23	38.83	96.84	21.54	12.66	4.02	79.01	29.06	276.39	40.86	76.98	9.08	135.62	17.13	127.78	8.58	23.31	21.85	8.00	2.36	108.38	33.26	8.48	1.50	1230.65	15.86
Total Vegetation	152.69	38.41	140.47	21.13	68.20	24.48	96.70	39.85	124.32	27.65	41.68	13.23	81.33	29.91	295.03	43.62	164.38	19.39	182.05	23.00	369.81	24.84	33.29	31.21	47.90	14.13	119.63	36.71	138.08	24.46	2055.56	26.49
Coal Quarry	40.87	10.28	72.28	10.87	50.89	18.26	16.73	6.89	60.22	13.39	12.12	3.85	1.84	0.68	75.01	11.09	71.40	8.43	150.76	19.05	100.35	6.74	16.28	15.26	43.62	12.86	51.12	15.69	0.00	0.00	763.49	9.84
Advance Quarry Site	5.64	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.02	1.78	0.00	0.00	0.00	0.00	11.66	0.15
Quarry Filled With Water	1.52	0.38	19.25	2.89	9.40	3.37	0.74	0.30	1.32	0.29	7.33	2.33	10.74	3.95	20.56	3.04	0.52	0.06	6.43	0.81	40.02	2.69	7.01	6.57	1.40	0.41	11.72	3.60	0.00	0.00	137.96	1.78
Coal Dump	3.66	0.92	5.96	0.90	3.17	1.14	5.40	2.23	2.26	0.50	5.10	1.62	2.57	0.95	1.33	0.20	6.87	0.81	5.14	0.65	3.68	0.25	0.31	0.29	3.90	1.15	2.70	0.83	0.00	0.00	52.05	0.67
Total Area under Active Mining	51.69	13.00	97.49	14.66	63.46	22.77	22.87	9.42	63.80	14.18	24.55	7.80	15.15	5.58	96.90	14.33	78.79	9.30	162.33	20.51	144.05	9.68	23.60	22.12	54.94	16.20	65.54	20.12	0.00	0.00	965.16	12.44
Barren OB Dump	77.74	19.56	90.35	13.59	23.50	8.43	22.24	9.17	124.27	27.64	64.91	20.61	51.09	18.79	98.71	14.59	159.34	18.80	179.07	22.63	263.42	17.70	22.50	21.09	96.76	28.53	77.51	23.79	0.00	0.00	1351.41	17.42
Barren Backfilled Area	0.00	0.00	53.02	7.98	7.28	2.61	80.79	33.30	34.51	7.68	2.36	0.75	101.67	37.39	106.53	15.75	21.94	2.59	42.29	5.34	10.71	0.72	0.00	0.00	0.00	0.00	23.92	7.34	0.00	0.00	485.02	6.25
Total Area under backfill(Technical Reclamation)	0.00	0.00	53.02	7.98	7.28	2.61	80.79	33.30	34.51	7.68	2.36	0.75	101.67	37.39	106.53	15.75	21.94	2.59	42.29	5.34	10.71	0.72	0.00	0.00	0.00	0.00	23.92	7.34	0.00	0.00	485.02	6.25
Total Area Under Mine Operation	129.43	32.56	240.86	36.23	94.24	33.81	125.90	51.89	222.58	49.50	91.82	29.16	167.91	61.76	302.14	44.67	260.07	30.69	383.69	48.48	418.18	28.10	46.10	43.21	151.70	44.73	166.97	51.25	0.00	0.00	2801.59	36.11
Waste Lands	61.95	15.58	17.33	2.61	49.53	17.77	9.89	4.08	31.52	7.01	47.96	15.23	9.00	3.31	30.44	4.50	74.75	8.82	49.50	6.25	59.85	4.02	0.75	0.70	10.98	3.24	28.16	8.64	18.45	3.27	500.06	6.44
Fly Ash Pond / Sand Body	3.85	0.97	5.19	0.78	0.00	0.00	2.81	1.15	3.53	0.79	0.00	0.00	1.55	0.57	12.54	1.85	5.09	0.60	1.39	0.18	3.07	0.21	0.24	0.22	0.24	0.07	1.24	0.38	3.76	0.67	44.50	0.57
୍ର Total Wasteland	65.80	16.55	22.52	3.39	49.53	17.77	12.70	5.23	35.05	7.80	47.96	15.23	10.55	3.88	42.98	6.35	79.84	9.42	50.89	6.43	62.92	4.23	0.99	0.92	11.22	3.31	29.40	9.02	22.21	3.94	544.56	7.01
Reservoir, nallah, ponds	2.31	0.58	2.16	0.32	0.31	0.10	2.41	1.00	7.55	1.69	0.00	0.00	6.97	2.55	5.01	0.73	15.21	1.80	0.00	0.00	2.26	0.14	0.19	0.18	2.91	0.86	8.50	2.61	7.80	1.38	63.59	0.82
Total Waterbodies	2.31	0.58	2.16	0.32	0.31	0.10	2.41	1.00	7.55	1.69	0.00	0.00	6.97	2.55	5.01	0.73	15.21	1.80	0.00	0.00	2.26	0.14	0.19	0.18	2.91	0.86	8.50	2.61	7.80	1.38	63.59	0.82
S Crop Lands	0.00	0.00	55.51	8.35	0.00	0.00	0.00	0.00	0.00	0.00	28.47	9.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.47	4.20	11.54	10.82	8.41	2.48	0.00	0.00	99.68	17.67	266.08	3.43
Fallow Lands	44.60	11.22	202.95	30.53	65.62	23.55	2.96	1.22	57.73	12.84	101.93	32.36	3.61	1.33	28.81	4.26	321.09	37.89	168.87	21.34	557.02	37.42	13.54	12.70	115.77	34.14	0.00	0.00	289.45	51.28	1973.95	25.44
Total Agriculture	44.60	11.22	258.46	38.88	65.62	23.55	2.96	1.22	57.73	12.84	130.40	41.40	3.61	1.33	28.81	4.26	321.09	37.89	168.87	21.34	619.49	41.62	25.08	23.52	124.18	36.62	0.00	0.00	389.13	68.95	2240.03	28.87
	0.96	0.24	0.33	0.05	0.08	0.03	1.02	0.42	0.77	0.17	0.92	0.28	0.76	0.28	0.62	0.09	1.56	0.19	4.32	0.55	0.27	0.03	1.03	0.96	0.53	0.16	1.23	0.37	3.86	0.68	18.26	0.23
Rural Settlement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.13	1.67	0.53	0.00	0.00	0.00	0.00	3.71	0.44	0.00	0.00	6.01	0.40	0.00	0.00	0.00	0.00	0.00	0.00	2.81	0.50	14.78	0.19
Industrial Settlement	1.73	0.44	0.00	0.00	0.70	0.26	0.95	0.39	1.05	0.22	0.55	0.17	0.78	0.29	1.94	0.28	1.51	0.18	1.58	0.20	9.48	0.64	0.00	0.00	0.66	0.19	0.14	0.04	0.51	0.09	21.58	0.28
Total Settlement	2.69	0.68	0.33	0.05	0.78	0.29	1.97	0.81	2.40	0.52	3.14	0.98	1.54	0.57	2.56	0.37	6.78	0.81	5.90	0.75	15.76	1.07	1.03	0.96	1.19	0.35	1.37	0.41	7.18	1.27	54.62	0.70
Grand Total	397.52	100.00	664.80	100.00	278.68	100.00	242.64	100.00	449.63	100.00	315.00	100.00	271.91	100.00	676.53	100.00	847.37	100.00	791.40	100.00	1488.42	100.00	106.68	100.00	339.10	100.00	325.87	100.00	564.40	100.00	7759.95	100.00

Job No 561410027 9



Job No 561410027 18

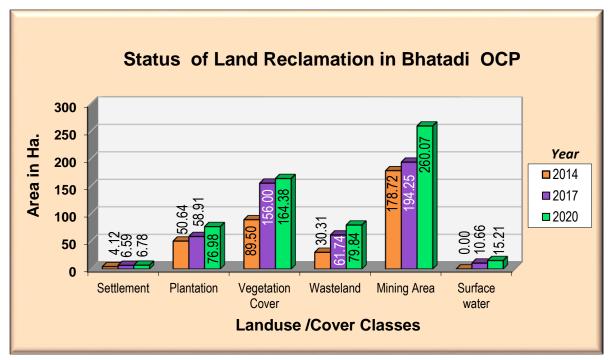


Figure -11

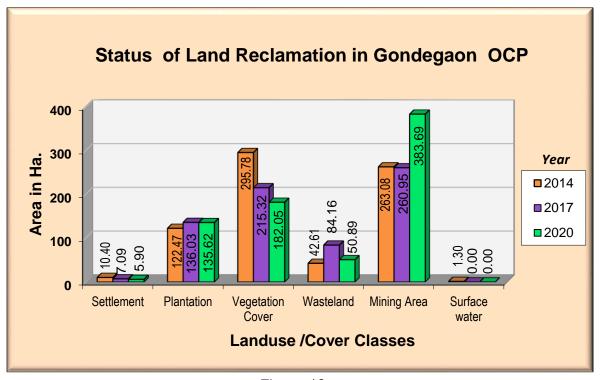


Figure-12

Job No 561410027 29



Photograph 13: Plantation under social forestry in Gauri Deep OCP



Photograph 14: Plantation on Barren OB dump in Bhatadi OCP

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Job No 561410027

ILLUMINATION SURVEY FOR THE MONTH OF:

DATE: 22 0 2021

SR. NO.		REA TO BE NATED	MINIMUM STANDARD (LUX)	ACTUAL (LUX)	REMARKS (SPECIFY LOCATION)
		Coal face	5.0 (ك) (Horizontal) +	4.7.	
1	Work place of	Coal face	10.0 (25) (Vertical) 4	10.2	
	немм		5.0 US (Horizontal) ₩	5.8	
2		OB face	10.0 (25) (Vertical) V	8.4	
3	Operator's cabin	1	30.0 (50)	28.9	
4	Area of drill op	eration	10 2.5 (Vertical) ✓.	8.3	
5	Area of dozer of	peration	(At the level of crawler tracks)	8.7	
6	Coal stock yard	d	3.0 15t1 (Horizont 本)	3.4	
7	CHP unloading		3.0 15H (Horizontal)	3.6	
8	Haul road		0.5 to 3.0 ford (Horizontal)	2.3+0 29.1	-
9	OB dump yard	ı	3.0 15 H (Horizontal)	3.6	
10	Coal dispatch		0.5 (Horizontal)	0.9	

SIGNATURE OF THE PERSON

INSPECTING

ILLUMINATION SURVEY FOR THE MONTH OF:

DATE: 23 | 12 | 202

SR. NO.	PLACE/ AREA TO BE ILLUMNATED		MINIMUM STANDARD (LUX)	ACTUAL (LUX)	REMARKS (SPECIFY LOCATION)
1		Coal face	5.0 15 H (Horizontal)	4.8	
	Work place of	Coarrace	10.0 (25) (Vertical)	10.6	
- 20	немм	OR form	5.0 (ち) (Horizontal) け	5.7	
2		OB face	10.0 (25) (Vertical) V	9.2	
3	Operator's cabir	1	30.0 SO	29.3	
4	Area of drill operation 815		10 25 (Vertical)	9.2	
5	Area of dozer o	peration	(At the level of crawler tracks)	89	
6	Coal stock yard	ı	3.0 (H (Horizontal) 5V	1.2	
7	CHP unloading	point	3.0 LSH (Horizontal)ISV	3.4	
8	Haul road		0.5 to 3.0 10 (Horizontal) Pt	23 to 279	
9	OB dump yard		3.0 ISH (Horizontal) 15 V	3.6	
10	Coal dispatch road		0.5 (Horizontal)	4.4	

SIGNATURE OF THE PERSON INSPECTING

ILLUMINATION SURVEY FOR THE MONTH OF:

DATE: 25/11/20

SR. NO.	PLACE/ AREA TO BE ILLUMNATED		MINIMUM STANDARD (LUX)	ACTUAL (LUX)	REMARKS (SPECIFY LOCATION)
1		Coal face	5.0 (15) (Horizontal) 17	4.5	
â	Work place of HEMM	Coarrace	10.0 (25) (Vertical) V	10.5	
2		OB face	5.0 (ts) (Horizontal) H	5.6	
-		OB face	10.0 (25) (Vertical) V	4.8	
3	Operator's cabin	n	30.0 50) H.	28.7	
4	Area of drill operation 815		10 (25) (Vertical) V	q.8	
5	Area of dozer of	peration	(At the level of crawler tracks)	0.2	
6	Coal stock yard	d	3.0 (5약 (Horizontal)(5√	3.1	
7	CHP unloading	g point	3.0 /5k (Horizontal) tSV	3.2 2.2 to 28:5	
8	Haul road		0.5 to 3.0 10 (Horizontal) 14	2.2 to 28.5	
9	OB dump yard		3.0 1514 (Horizontal) 15V	3.7	
10	Coal dispatch	road	0.5 (Horizontal)	1.2	

SIGNATURE OF THE PERSON CONTROL INSPECTING DANGE Dahale

ILLUMINATION SURVEY FOR THE MONTH OF:

DATE: 29/10/20

SR. NO.	PLACE/ AF ILLUM	REA TO BE NATED	MINIMUM STANDARD (LUX)	ACTUAL (LUX)	REMARKS (SPECIFY LOCATION)
1		Coal face	5.0 (K) (Horizontal) H	4.8	
St. 1	Work place of		10.0 (2.5) (Vertical) ✓	9.8	
2	HEMM	OB face	5.0 (14) (Horizontal) H	5.7	7) Vy H
	OB face		10.0 (2¢) (Vertical) V	9.3	
3	Operator's cabin	n	30.0-50	28.9	
4	Area of drill op	eration 705	10 25 (Vertical) V	9.9	
5	Area of dozer of	operation	10.0 (At the level of crawler tracks)	8.5	
6	Coal stock yar	d	3.0 15 H (Horizontal) 15V	3.6	
7	CHP unloadin	g point	3.0 ISH (Horizontal) ISV	5.1	
8	Haul road OB dump yard		0.5 to 3.0 (6 (Horizontal) 14	2.5 to 28.3	
9			3.0 ISH (Horizontal) ISV	Д.)	
10	Coal dispatch	road	0.5 (Horizontal)	0.8	

OR.

SIGNATURE OF SAFETY OFFICER

SIGNATURE OF THE PERSON INSPECTING Sahalus de D. S. Dah de



ILLUMINATION SURVEY FOR THE MONTH OF:

DATE: 28/09/20

SR. NO.		REA TO BE	MINIMUM STANDARD (LUX)	ACTUAL (LUX)	REMARKS (SPECIFY LOCATION)
T dic			5.0 (15) (Horizontal) #	5.1	
1	Work place of	Coal face	10.0 (25) (Vertical) Y	8.9	
	HEMM		5.0 (15) (Horizontal) H	6.1	
2		OB face	10.0 2.5 (Vertical) Y	9.2	
3	Operator's cabin	093	30.0 H.	28.6	
4	Area of drill operation @15		10 &5 (Vertical) Y	9.2	
5	Area of dozer o	peration	10.0 (At the level of crawler tracks)	9.4	
6	Coal stock yard		3.0 154 (Horizontal)/57	3.5	
7	CHP unloading	point	3.0 154 (Horizontal) USV	4.8	
8	Haul road	110-15-117	0.5 to 3.0 (Control (Horizontal) H	3.1 to 28.1	
9	OB dump yard		3.0 15H (Horizontal) 15V	4.1	
10	Coal dispatch road		0.5 (Horizontal)	0.9	

SIGNATURE OF THE 1948ON whatee INSPECTING (D. S. Dahalee

ILLUMINATION SURVEY FOR THE MONTH OF:

DATE: 23 |08 |20

SR. NO.	PLACE/ AREA TO BE ILLUMNATED		MINIMUM STANDARD (LUX)	ACTUAL (LUX)	REMARKS (SPECIFY LOCATION)
1	Work place of	Coal face	5.0 (15) (Horizontal)	4.9	
			10.0 (25) (Vertical) \(0.9	
	Work place of HEMM	OB face	5.0 (15) (Horizontal) H	5.8	
2			10.0 (25) (Vertical)	9.1	
3	Operator's cabin		30.0 SO	28.7	
4	Area of drill operation QO 6		10 25 (Vertical) V	9.1	
5	Area of dozer operation		10.0 (At the level of crawler tracks)	9.2	
6	Coal stock yard		3.0 (5 f) (Horizontal)(5V	3.4	
7	CHP unloading point		3.0 5H (Horizontal) (5X	4.2	
8	Haul road		0.5 to 3.0 (6 (Horizontal) +	5.1 10 27.9	
9	OB dump yard		3.0 15号 (Horizontal) ISV	3.9	
10	Coal dispatch road		0.5 (Horizontal)	1.0	

SIGNATURE OF THE PERSON
INSPECTING
D. S. Dahalee





CORPORATE ENVIRONMENT POLICY
2018

Environmental Policy Statement:

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

OBJECTIVES:

Coal India Limited shall endeavor to:

- 1. Plan & design projects with due consideration to environmental concerns for Sustainable Development.
- 2. Conduct mining and associated operation in an environmentally responsible manner to comply with applicable laws and other requirements related to environmental aspects.
- 3. Prevent pollution of surrounding habitation by continuous monitoring and adopting suitable measures for environment protection.
- 4. Implement Environment Management Plans in all our mines /projects effectively to mitigate pollution, conservation of natural resources and restoration of ecology & biodiversity.
- 5. Ensure compliance of all applicable Environmental Clearance & Forestry Clearance conditions and other statutory conditions issued by regulatory agencies.
- 6. Recycling of wastes on the principle of REDUCE, REUSE and RECYCLE.
- 7. Put special thrusts on efficient energy utilization / renewable energy as a measure to reduce carbon foot-print.
- 8. Strive for continual improvement in our environmental performances by setting targets, measuring progress and taking corrective action.
- 9. Taking measures to render productive post mining land use.
- 10. Implementation of activities applicable to CIL arising out of International Conventions.
- 11. Create environmental awareness among the employees and the local communities through pro-active communication and training.

STRATEGIES FOR IMPLEMENTATION OF ENVIRONMENTAL POLICY:

Back Ground:

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

This modification in the present policy is the outcome of the experience gained since 2012 keeping in view the modifications / amendments made time to time in environmental policies and additional stipulation notified by MoEF&CC (Ministry of Environment, Forest& Climate Change) and other organisations concerning mine closure, reclamation of degraded land, environmental clearance etc. and also with the objective of revisiting the corporate policy.

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

Strategies: Coal India adopts the strategies appended below for effective implementation:

1. MINE/ PROJECT PLANNING & DESIGN FOR SUSTAINABLE DEVELOPMENT:

- a) Coal being a non-renewal energy source, extraction shall be planned prudently to meet national requirement in a planned way. The projects shall be designed on the principle of Sustainable Development with due consideration to environment, mine closure ,safety and aspirations of the stakeholders at the planning& design stage itself with due regard to mine closer plan.
- b) While preparing the Mining plan/project reports, the effort shall be to incorporate latest mining technologies and equipment's with optimal capacity, which are more environment friendly.

c) All Mining Plan/ project reports will be provided with detailed provisions for ensuring environmental compliances.

2. ENVIRONMENTAL IMPACT ASSESSMENT (EIA) & ENVIRONMENT MANAGEMENT PLAN (EMP)

- a. All mine planning and design shall be environmentally acceptable and operation shall be carried out in such a way as to facilitate the compliance of stipulated environmental standards.
- b. EIA& EMP for all projects shall be formulated as per the approved ToR (Terms of Reference) and pubic consultations for obtaining Environmental Clearance (EC) from MoEF&CC. Similarly, in the existing projects needing enhancement of production capacities with or without increase in land, change of technology, renewal of lease and change in land use etc. fresh EC is required to be sought as per norms. The projects shall be operated after obtaining Consent to Establish (CTE)/Consent to Operate (CTO) from State Pollution Control Boards (SPCB).
- c. Detailed Mine Closure Plans shall be prepared for all existing and new mines as per the MoC (Ministry of Coal) guidelines.

3. COMPLIANCE OF THE STATUTORY REQUIREMENTS:

The implementation of EMP and fulfillment of all other statutory requirements like conditions of EC, FC and consents to establish & operate, including timely submission of returns to statutory bodies and various agencies, are to be ensured at all levels.

4. MEASURES TO MITIGATE POLLUTION:

a) Air Pollution:

- i) Generation of dust is to be controlled at the source to the possible extent with necessary control measures during drilling, blasting, loading, unloading, CHP transfer points etc.
- ii) Deployment of eco-friendly mining technologies.
- iii) Dust generation is to be minimized along coal / waste transportation routes.
- iv) Mechanized transportation of coal to be encouraged.
- v) Green belt is to be created around the source of dust.

b) Water pollution:

- i) The mine water and other effluent shall be treated to ensure the discharge norms as per statute. The treated effluent shall be utilized to the extent possible with a view to achieve maximum water conservation.
- ii) Oil & grease from the effluent shall be removed by Oil & Grease Traps for proper disposal.

c) Noise / ground vibration:

- i) All measures to minimize noise pollution will be taken including maintenance of HEMM, equipment and provision of PPE where required.
- ii) Suitable controlled blasting techniques shall be followed to reduce ground vibration as well as noise pollution.

d)Land reclamation:

- i) Progressive and concurrent reclamation of mined out areas will be carried out as per approved EIA/EMP and Mine Closure Plan (MCP).
- ii) Slopes of external dumps are the important area to be suitably graded / terraced for effective reclamation and plantation.
- iii) Preservation of top soil is required for future use. Old as well as existing non-active dumps are to be technically and biologically reclaimed.
- iv) Monitoring of reclamation work of all opencast mines will be done through Satellite Surveillance. The outcome shall be put in the websites.

e) Mine closure plans:

Mine Closure Plan (MCP) shall be prepared for each mine. MCP are being delineated in two phases viz. progressive and final mine closure. Appropriate funds are set aside and deposited under a special Escrow fund every year as per MoC guidelines, to be utilized for proper and final mine closure.

For mines closed prior to issuance of MoC guidelines (i.e. 27th August, 2009) suitable action to be taken as per provisions of Mines Act 1952.

f) Mine fire

CIL shall endeavour to reduce occurrence of mine fire and subsidence due to mining activity. Monthly report shall be submitted to top management of the subsidiary and CIL and Quarterly to company board. Action Plan for mine fire control shall be implemented. Monitoring will be done through Satellite Surveillance/other suitable technology.

g) Monitoring:

- I. All receptors in and around the mining projects shall be monitored regularly to assess the efficacy of the pollution control / mitigation measures within stipulated standards.
- II. Effect of mining on the hydrology of the area will be monitored through measurement of water level and its quality of nearby wells and bore holes provided for this purpose. Conservation of water through rainwater harvesting shall be taken up.
- III. Area and Unit environmental cells shall have regular interaction with the people in and around the coal mines and other allied units on matters related to environment to take necessary and timely corrective actions.
- V. Environmental initiatives and monitoring through self and third party environment audit shall be conducted for generating useful data for taking corrective actions and mitigation measures as per guidelines.

h) Other measures:

- I. Special emphasis shall be given to undertake R&D related to various facets of coal mine environmental management in collaboration with Central Mine Planning and Design Institute (CMPDI) and other competent institutions.
- II. Besides ensuring statutory compliance, the CIL desires to set high standards and continual improvement.
- III. A number of mines and establishments of CIL are ISO 14001 certified and balance mines & establishments shall be ISO 14001 certified in phased manner.
- IV. CSR and R&R policies of CIL are to be incorporated for better planning and implementation of the socio-economic issues of coal mining areas.
- V. The coal mining environmental issues are complex and require multidisciplinary approach to address the same. CIL will endeavor to enter into MoUs with expert agencies of repute to assist in environment issues and also help in capacity building of CIL executives.
- VI. CIL conduct periodical medical examination (PME) of its work force on routine basis in compliance of the requirement mining rules and regulation, additional test will be done as and when require.

5. PRESERVATION OF BIO-DIVERSITY:

a) This will start from mine planning including technically and biologically reclamation of mined out areas in collaboration with State Forest Departments, Wild Life Divisions, NGOs etc. working in the fields of biodiversity conservation.

b) The selection of species for plantation shall be done in consultation with the local community to include the local species and their preferences, if any.

6. COAL BENEFICIATION / COALWASHERIES:

- a) For beneficiation of Runoff Mines (ROM) coal, washeries are being set up in a phased manner as per requirement and statutes.
- b) Slurry Management System (SMS) in all washeries shall be organized to ensure collection of fines, gainful utilization of rejects viz. power generation in Fluidized Bed Combustion (FBC) plants, selling to brick manufacturers or adopting other environmental friendly disposal options as feasiable.
- c) The reject dumps and tailings shall be suitably handled to avoid any contamination.
- d) The effluent from washeries including tailings pond shall be suitably treated and reused to minimize water consumption with zero discharge concept.

7. CONSERVATION AND CLEAN TECHNOLOGY:

- a) R&D projects shall be taken up to promote clean coal technology and improve the existing technologies.
- b) Energy saved is energy produced. Voluntary energy audit to be done for corrective action to reduce carbon footprint.
- c) Clean Development Mechanisms will be explored for reducing emission of Green House Gases by exploration, identification, preparation of projects reports for extraction of methane from Coal Bed, Coal Mine, Abandoned Mine, Ventilation Air, UG Coal Gasification, generation and utilization of renewable energy etc.

8. AWARENESS PROGRAMME:

- a) Publicity to generate awareness through exchange & communication of information, newsletters and periodicals on environment, seminars, workshops, celebration of World Environment Day etc. at CIL / Subsidiary HQs, Areas & units to be undertaken. Regular training programs to be organized at various levels to inculcate awareness among employees.
- b) Courses on environmental and forestry laws and Environmental Protection Measures and the Corporate Policy to be organized for project executives for improving knowledge.
- c) CIL to give annual awards for achieving excellence in environment related

issues and activities. These awards will be in recognition for implementation of EMP, land reclamation and compliance of statutes, proper maintenance of air & water quality and noise level.

9. WASTE MANAGEMENT:

CIL will undertake appropriate action for safe handling, storage and disposal of solid waste and hazardous waste generated from its industrial set up and colonies as per relevant rules. The biomedical waste generated from hospitals and dispensaries will be collected and disposed in appropriate facilities created as per statutes. E-waste management and handling of various types of e-waste generated in its operations will be done as per rule.

10. CORPORATE ENVIRONMENT RESPONSIBILITY:

Corporate Environment Responsibility (CER) is mandatory for issuing environmental clearance for all the Greenfield and Brownfield projects as per directives of MoEFCC with effect from 1st May, 2018 (O.M.No.22-65/2017-IAIII dt. 19.06.2018). Budgetary provisions should be kept for implementation of provisions of CER for all the projects which will be submitted to MoEFCC for grant of environmental clearance.

11. INCORPORATION OF VIEWS OF STAKEHOLDERS:

CIL will critically examine and incorporate the viewpoints of various stakeholders like PAPs/PAFs, Parliamentary Committees, Standing Sub-Committees, NGOs etc. CIL being a listed entity with stock exchange, it will also take into consideration the observations/viewpoints of international investors.

12.IMPLEMENTATION OF POLICY:

- i) Manpower: CIL shall have environmental divisions at decision making & operational levels in its structure. The environment department shall be set up and strengthened at:
 - i) CIL Corporate HQ at Kolkata
 - ii) Subsidiary HQs
 - iii) Areas / Units / Collieries / Workshops / Washeries
 - iv) CMPDI (HQ) & CMPDI Regional Institutes
- **ii) Roles and Responsibilities:** The environmental department, set up at company HQs, Areas and Unit levels with appropriate manpower and resources, shall be responsible for implementation of policy, obtaining EC, FC, consent to establish

& operate, statutes requirements and undertaking mitigation measures besides preparation of action plan every year and also to intimate the status of implementation to the management regularly.

iii) Annual Environment Budget (Revenue & Capital): The Annual Environment Budget (revenue & capital) shall be prepared based on the action plan including monitoring of various bench marks and the budget utilization. The year wise funds earmarked for environmental protection measures shall be kept in separate accounts with Environmental cost code.

13. FLEXIBILITY TO THE SUBSIDIARY COMPANIES:

CEP 2018 will be applicable for all subsidiaries of CIL. The subsidiary company Boards have been authorized to approve necessary modifications in CEP 2018 with reference to unique conditions prevailing at the concerned subsidiary.

REVIEW OF ENVIRONMENTAL POLICY:

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

२ वेति / प्राप्तवंपक (एयां.)/बुख्यतवर/वावपुर WCL/GM (Env)/HO/Nappur प्राप्ती/Rec. 210 दिलांक/Data.15/3/19

वेस्टर्न कोलफील्ड्स लिमिटेड Western Coalfields Limited

बोर्ड सचिवालय BOARD SECRETARIAT

वंजी. कार्यातय : Regd. Office : कोल इस्टेट, सिविल लाईन्स, मामपुर - 440 001 Coal Estate, Civil Lines, Nagpur - 440 001

全 m/o 0712 · 2511216

e-Mall ramehar@westerncoal.gov.in

BOARD MATTER CONFIDENTIAL

REF: WCL/BD/SECTT/BM-309/2019/267

DATE: 15.03.2019

Reproduced below is the relevant excerpt from the minutes of 309th meeting of the Board of Directors of WCL held on 04th March, 2019:

"ITEM NO.309/ C-5

SUB Adoption of Corporate Environment Policy (CEP), 2018 of Coal India Limited for Western Coalfields Limited.

- While deliberating on the subject brought out in the agenda note, Shri Ajit Kumar Chowdhary, Director (Technical) P&P apprised salient features of the Corporate Environment Policy 2018 approved by CIL's Board in its 377th meeting for implementation at CIL and its subsidiaries. It was further apprised that Director General, Commercial Audit and Ex-officio member, Audit Board II, Kolkata, while submitting its report on "Assessment of Environmental Impact due to mining activities and its mitigation in CIL and its subsidiaries" to COIA, CIL emphasized the consideration of this policy by the Board of Directors of the respective subsidiaries prior to its implementation in the subsidiaries. To comply the suggestions, it is proposed to adopt the environment policy by the Board for implementation in WCL.
- In view of above, the Board, after deliberation adopted the policy in principle for implementation in WCL.
- iii) The Board while advising Director (Tech) P&P to assess the impact of cost to the company for sustainability and desired to give inputs by members of the Board for value addition in the policy.
- iv) GM (Environment) to take necessary action in the matter.

COMPANY SECRETARY

GENERAL MANAGER (ENVIRONMENT)

CC: DIRECTOR (PERSONNEL)

DIRECTOR (FINANCE)

DIRECTOR (TECHNICAL) OP

DIRECTOR (TECHNICAL) P&P



Coal India Limited

A MAHARATNA COMPANY

Coal Bhawan, 3rd Floor, Core - 2 New Town, Rajarhat, Kolkata- 700 156. PHONE: 033-2324-6526, FAX:033-2324-6510 Email – mviswanathan2.cil@coalindia.in

WEBSITE:www.coalindia.in CIN - L23109WB1973GOI028844

Ref No.CIL:XI(D):04112;2019; 22442

Dated 15th Jan. 2019

To GM(Environment), Coal India Limited, 3rd Floor, New Town, Rajarhat, Kolkata – 700 156.

Sub: Minutes of 377* CIL Board Meeting held on 20th December 2018.

Reproduced below is the relevant extracts from the minutes of 377th meeting of Board of Directors of Coal India Limited held on 20th Dec. 2018 at CIL (H/Q), New Town, Kolkata with regard to the following item:

"ITEM No.377:4(G)

Sub:- Corporate Environment Policy (CEP) 2018 of Coal India Limited

4.7 Director(Technical) apprised the Board that Coal India Limited had prepared last Corporate Environment Policy(CEP) in 2012, which is to be reviewed after every five years to incorporate the changes in legal, technical, environmental, economic and social inputs prevailing at that time. Hence Company had prepared Corporate Environment Policy 2018 in consultation with its subsidiaries incorporating various changes in extant rules & regulations.

Thereafter GM(Env.) made presentation. After detailed deliberations Board approved Corporate Environment Policy, 2018 for implementation at CIL and its subsidiaries as brought out in the agenda note and advised that the same be reviewed after 5 years to incorporate various changes in legal, technical, environmental, economic and social inputs prevailing at that time."

This is for your information and taking necessary action please.

Yours faithfully,

(M.Viswanathan) Company Secretary



चंद्रपूर मंगळवार दि.१७ मार्च २०२०

महसुल वसुर् उप प्रादेशिक त

मा.वां.विश्वाय सासन निर्णय क्र.सीएटी-२०१७/प्र.क्र.८/इवास्ती-२ प्रपत्र-१

> महाराष्ट्र शासन कार्यकारी अभिवंता यांचे कार्यालय

पणा - सार्वजिक संघवाय विभाग इ. १, विश्वित सार्वजिक संघुराची ई-मेल पणा-chandrapur l.ee@mahapwd.com

ई-निविदा सुचना क्र.९६/बी-१ सन २०१९

कर्मकरी अधिका, सार्मकरिक क्षेत्रकर विभाग हा १, जिल्लिक सार्टम, बंहुए-४४४४४१ प्रमुख्य का अगल्डरपंत्रकृत कामीन कामकारात जी -१ जुनकरील विशेष १ - विशेष प्रमुख्य (अस्तिकार्ट्स) विशेष प्रमु प्रोचेन्यकरण http://maharashtra.elenders.in or http://mahatenders.gov.in चुन विशेषपंत्रकर अस्ति निर्माण अधिका स्थाप प्रविकारी क्षेत्री प्रमुख्य अस्ति अर्थ अस्तिकी विशेष विशेष

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	पोर्ट्स वेकेल कार्यास्था टान्सेल्स्स्सीन स्ट.मा.सम्बद्धा प्रमार - 3 शिक्षासम्बद्धा स. ३ ४।वेची विशेष व विकासीत दुस्सती संदर्धा
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	बहुन्द्र संबीत जिल्हा क्योर्ट वर्डड्रियम जनाईन आवत्रक संक्रम निवासक्यम समाव म.2.74 से 2.73, 21 से 2.73 में 2.74 से 2.45 की विशिक्षीत हुंब्यके कार्यो
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W III	पोलीस प्रदर्शिक्षक (बाल बलका) सा व जिल्हा पहनूर की विकेश दुवन है करते ।
6	प्रशासकिय इम्परतं, चंदपूर थी विषेश दुवस्ती करणी
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13	बदपुर देवील प्रशासकीय इमारातियी जितिकारित दुव्यकी कारणे
	सुनिवर्तित सेरीजगार क्रियंक्स यांचेकरीला राजीस
*	पंत्रपुर वेशील संजर्भ लागी लागीत जातातित स्टब्स विभाग प्रशाद - 3 जिलासंस्थात र ते जिल्लामा दुस्ताति दुस्ताति करणे

वरण्याचे जजहार माडे पक्षकाराचे संमती शिवाच इतर खातेदारांसोबद करू नये. अन्यथा तथाक थीत व्यवहार माझे पक्षकारावर ब्रध्मकारक राहणार नाही. यदाकदाचित इतर कोणीही या संबंधाने पुढे ज्यवहार केल्यास त्याला कोटीत आव्हान देण्यात चेईल. तसेच व्यवहार झालेला असल्यास तो ताबडतीय रह करून त्याची लेखी सुचना खालील पत्यावर पाठविण्यात याची.

> स्वा/-(विजय पुगलिया) अधिवक्ता गांधी चौक, चंद्रपुर

स्तर १ हुन् १०२४ तथा स्वापुधा अगरता तथा मिना लंडी आधेप सारा जगवा, अन्याम प्रोताचार विशेष वहीं असे पृशीत प्रकान अर्थ दिसाचा अर्थ मेनूर करून वजार प्रकान प्रांत्या जन्माची बोट करण्याचे निर्देश गैरअजंदागरण देण्याचे आदेश पार्चित करण्यात चेहेल. त्यानंतर येणाचा कोणस्थानी आधेणाची दक्षल पेताच्या प्राणात गार्डी. सच्या आज दि. १/१/२०२० रोजी माहवा सहितीशी च न्यायल्खाच्या दिश्यानेशी अर्हीतत्या दिशा.

अहारपूर

दिनांक ०६/७३/२०२०

(तिक्स)

स्वा/-सङ्ख्यक अधिश्रक न्यावदेशधिकारी प्रथम श्रेणी, बहारपूर हमामालना बाना काही भिनिटतच तिची स्थिती नेमकी ओळखती व ईता

वा समस्वेत्न अवस्या एका महिन्यात बाहेर पदली. ईशाने १० जूनला आपली दुसरी कन्या मिराया हिला जन्म दिला



मराठी महाविंदर्भ (८)

होता. त्यानंतर तिची मनःस्थिती सतत वदलू लागली. तिला सतत रबू येत असे आणि कधी कभी भर सभेत किया चर लोकासमोरही ती अधू ढाळू लागे. याबाबत ईशाने एका चंट शोमध्ये खुलासा केला. ईशाने सांगितले की, एक दिवस तिच्या आईने म्हणके हेमामालिनी यांनी तिची ही स्थिती पाहिली आणि त्यांनी ही बाब गांभीयंत्रे येऊन तिने एक रक्तवाचणी करून प्याची असा सङ्घा दिला. ईशाला औ समस्या होती ती प्रसृतीनंतर हामों नामधील चढ-उतारामुळे अनेक महिलांना जहते. त्याला पोस्टणार्टम दिग्रेशन असे म्हटले जाते. ईशाच्या या समस्येने निदान झाल्यावर ती एका महिन्यातच ठीक झाली. ईशा मध्या चित्रपटसृष्ठिपासून दूख असून आता एक लेखिका बनली आहे. अलीकडेच तिचे अम्मा मिया नावाचे एक पुस्तक प्रकाशित झाले आहे.

कोरोनाच्या भीतीने अभिनेत्याने रह केली पत्नीची वर्थडे पार्टी

सध्या जगभरात करोना व्हायसमे पुनाकूळ पातसा आहे. चीनमध्ये पसाणाग हा जीवधेणा विषाण हा-हा म्हणता जगभर पसरू लागला आहे. भारतात देखील आतापयेत १० जणांना या विषाणूंची लागण झाल्याचे स्पष्ट झाले आहे. या सगळ्यात सिनेस्टारही कोरीना व्हायरसमुळे सजग झाल्याचे दिसतात. अनेकांनी सिनेमांचे चित्रीकरण पुढे इकत्तले तर काहींनी सार्वजनिक दिकाणी जाणे रह केले. नुकतेच एका सुपस्टाराने कोरोजाच्या चीतीने पत्नीचा वाददिवस मोठ्या प्रमाणात साजग वेळा नाही लाक्ष्माच्या स्वास्त्राय प्रजारे पत्नी गणिका परिचन

(कोल इंडिया लिमिटेडचा एक घपनाम) सम्बन्ध

वेश्टर्ण कोलफील्ड्स लिफ्टिडच्या चंद्रपुर क्षेत्राअंतर्गत भटाकी विस्ताचीय स्ट्रुल्या खाणी वा विश्ताच (क्ष्यादन क्ष्यता 0.975 मिलियन टन प्रति वर्ष पासूच 1.465 मिलियन टन प्रति वर्ष (जास्तीत जास्त) पर्वत व खान माळेपट्टी क्षेत्र 847.37 है. क्षेत्रामध्ये) वास्ति पर्वादरण व वन मंत्रालवाद्वारे पत्र क्ष्मांक 3-11015/151/2014-IAII (M) दिन्तक 13.03.2020 अनुसार पर्वादरण स्वीकृती विली आठे पर्वादरण गीकृतीच्या पत्राची प्रत पर्वादरण, यन व जलवादु परिवर्टन मंत्रालमाच्या खाली दिलेल्या वेदमाइट वर पाह ककता —

वेरटर्न कोलफील्डस लिमिटेड

http://environmentclearance.nic.in

संशोधन व प्रशिक्षण केंद्र, चिचपछी

जिल्हा विशेष

चंद्रपूर मिहासाग्र

मंगळवार, दि.१७ मार्च २०२०

वरवागरणामाठी आपण आमदार निधीतन निधी उपलब्ध करून देणा। असून जिल्हा परिषदेन सुध्दा जिल्ह्यातील डाघीण भागात प्लेक्स बोई, जाहीपाती आदीच्या माध्यमातुन जनजागरण अभिनान रास्रविण्याचे आवाहन माजी अधंगत्री आ. सुधीर

मनगरीबार यानी केले.

परीक्षा संसार की करनी चाहिये दिनाक १६ माने गेजी चंद्रप्र प्रतीक्षा परमात्मा की जिल्हा परिषदेव आ. सुधीर प्नगंटी वस और समीक्षा अपनी द्यांनी काराना वहायसम् च्या बादस्या पर हम परीक्षा परमात्मा प्राद्यमांवासदर्भात आहाला बेटक धेतली या बैडकीला जिल्हा की करते हैं प्रतीक्षा सुख परिषटेच्या अध्यक्षा मध्या गरनले. की और समीक्षा वनविकास महामङ्खान माजी दूसरों की करते हैं। अध्यत चटनसिंह चंदेल, मांबी सप्रभात आमटार संजय घोटे, किल्हा परिषदेवे

भाजी अध्यक्ष देवराव भीग बल्लारपुरचे नगराध्यक्ष हरीश ग्राम् जिल्हा परिषदेचे मुख्य कार्यक अधिकारी सहल फडीले, उपमुख कार्यकारी अधिकारी श्री. का लेकी जिल्हा आरोग्य अधिकारी गहलोतं आदीची प्राम्ख्याने उपस्थ होती, काराना व्हायस्स प्रयाचीक प्राद्यांवासंदर्भात उपावकाजनामहमान स्वानी आह

वर्गां लस्य दण्याचा आवश्यक आहे. खोकला, सदी झाली तर नेमका उपचार कमा व कहे च्यायचा बाबाबत विशेष निर्देश जिल्हा परिषदेने नागरिकांना द्वाचे तसेच नमस्कार करणे, हातन मिळ किणे, सावणाने हार धने, याबाबत सुध्दा जनजागरमान्य

學職 發展報 医水红色质 数分子

वासनालय याना करा करा भागा र जाती महाराष्ट्रातील कोजल्याही जिल्हास पार्मल स्वखनि प्रसाकाचे पाठविषयाची सुविधा उपलब्ध आहे अशी माहिती सरेश हांगे बानी दिली.

त्याघ अकल्प

केवळ एक संचाची मूळ किंगत पंचरा हजार स्पर्व आहे. एक संच खरेटी केल्याम बाच पास हजार रुपये, कोणतेही दोन संच खरेदी केल्बास नऊ स्तार स्पये, तीन संच खरेदी केल्याम

Nestern Coalfields Limited A Subsidiary of Coal India Limited)

NOTICE

Environmental Clearance has been accorded for Expansion of Bhataci Opencant Coal Mine (From 0.975 MTPA to 1.465 MTPA(peak) in a mine lease area of 847.37 ha) located in Village Bhatadi, District Chandrapur (Maharashtra) under Chandrapur Area of M/s. Western Coalfields Limited, by Ministry of Environment & Forests vide letter No. J-11015/151/2014-IA it (M) dated 13.03.2020 and may also be seen at website of the Ministry of Environment, Forests & Climate Change (McEF&CC) at-

http://environmentclearance.nic.in

- (HANDRAPUR 17-03-2020

श्यांनी सांगीतले.

5(H) ×8(W): 40 Sq. cms

| 100 mg |

Bellelle 75

(1591) Despite 35

ORE 3-4 ORE

माध्यमात्न नागरिकाना जागृत

करण्याची आवश्यकता त्यांनी

प्रतिपादीत केली. ३१ मार्च २०२०

पर्यंत आपण स्वतः कोणतेही

सार्वजनिक कार्यक्रम करणार नस्न

बाइया मतदार संधात भी स्वतंत्र स्थ

विश्वन त्या माध्यमात्न जनजागरणाचे

कामहाती घेणार आहे. यासदर्भात डॉ.

मंगेश गुलवाहे यांच्या अध्यक्षतेखाली

एक समिती गठीत केली असल्याचे

वेस्टर्न कोलफ़िल्डस लिमिटेड Western Coalfields Limited

(मिनीएल रुंपनी) (A Miniratna Company)

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

महाप्रबंधक कार्यातय चंदपूर क्षेत्र /Office of Area General Manager Chandrapur,



विभाग-पर्यावरण

Department of Environment

Website:- westerncoal.nic.in

CIN-U10100MH1975GOI018626 FAX:- 07172-256124 पंजी. कार्या:कोयला विहार, सिविल लाइन्स नागपुर.(महा) -440001 / Regd.off: Coal Estate,Civil Lines, Nagpur(MS)-440001

संक्श संख्या/Ref NO:वेकोशि/वरो /महाप्र/पर्वावस्थ/ 12.2-9

दिनांक/Date: 15.03.2020

प्रति.

- मा. जिल्हाधिकारी, जिल्हाधिकारी कार्यालय, चंद्रपुर, त. जि. चंद्रपुर
- 2. प्रादेशिक अधिकारी, म.प्र.नि.मं., पहिला माला, उदयोग भवन, चंद्रपुर
- महाप्रबंधक, जिल्हा उदयोग केंद्र, उदयोग भवन, चंद्रपुर
- मुख्य कार्यकारी अधिकारी, जिल्हा परिषद, चंद्रपुर
- उप विभागीय अधिकारी, उप–विभागीय कार्यालय, चंद्रपुर
- तहसिलदार, तहसिल कार्यालय, चंद्रपुर, त. जि. चंद्रपुर
- तहसिलदार, तहसिल कार्यालय, भद्रावती, त. भद्रावती जि. चंद्रपुर
- सभापती, पंचायत समिती कार्यालय, चंद्रपुर, त. जि. चंद्रपुर
- सभापती, पंचायत समिती कार्यालय, भद्रावती, त. भद्रावती जि. चंद्रपुर
- 10. सरपंच, गट ग्रामपंचायत कार्यालय, पायली—भटाळी, त. जि. चंद्रपुर
- 11. सरपंच, गट ग्रामपंचायत कार्यालय, विचोडा (चांदसूर्ला), त. जि. चंद्रपुर
- 12. सरपंच, ग्रामपंचायत कार्यालय, चेक तिरवंजा(क.), त. भद्रावती जि. चंद्रपुर
- 13. सरपंच, गट ग्रामपंचायत कार्यालय, पदमापुर (किटाळी), त. जि. चंद्रपुर
- 14. सरपंच, गट ग्रामपंचायत कार्यालय, तिरवंजा(मोकासा.), त. भद्रावती जि. चंद्रपुर

विषय:- Expansion of Bhatadi Opencast Coal Mine from 0.975 MTPA to 1.465 MTPA (Peak) of M/s Western Coalfield Limited in mine lease area of 847.37 ha. located in village Bhatadi District Chandrapur (Maharashtra) - Environment Clearance (EC)-reg.

संदर्भ : LETTER NO. J-11015/151/2014-1A-II(M) date:13.03.2020.

महोदय.

With reference to the above subject and referred letter and in compliance of General Condition under (J) Miscellaneous Condition No. 2 we are hereby submitting a copy of the above mentioned EC document.

Kindly arrange for display of the EC document on your Notice board/uploading on your website for information of general public for a period of thirty days.

क्षेत्रीय केंद्रस्थ अधिकारी (पर्यावरण) वेकोलि, चंदपर क्षेत्र

प्रतिलीपी.

- 1. क्षेत्रीय महापबंधक, चंद्रपुर, क्षेत्र
- 2. उपक्षेत्रीय प्रबंधक, पदमापुर उपक्षेत्र
- 3. ओसी



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

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

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000060809

Submitted Date

29-09-2023

PART A

Company Information

Company Name

M/s. WESTERN COALFIELDS LIMITED, BHATADI

OPENCAST MINE

Address

POST-BHATADI

Plot no

Document Uploaded

Capital Investment (In lakhs)

30654.63

Pincode 442404

Telephone Number

8275967993

02/330/333

Region

SRO-Chandrapur

Last Environmental statement submitted online

yes

Consent Valid Upto

2023-03-31

Industry Category Primary (STC Code) &

Secondary (STC Code)

Application UAN number

MPCB-CONSENT-0000109729

Taluka

Chandrapur WCL-CHANDRAPUR AREA

Village

Scale City

L.S.I Chandrapur

Person NameDesignationS. K. SethySub Area Manager

Fax Number Email

wclchaenv@gmail.com

Industry Category Industry Type

Red R35 Mining and ore beneficiation

Consent Number Consent Issue Date

MPCB-CONSENT-0000109729 2022-11-24

Establishment Year Date of last environment statement

submitted

1995 Sep 20 2022 12:00:00:000AM

Product Information

Product NameConsent QuantityActual QuantityUOMCoal1.4651.465MT/A

By-product Information

By Product NameConsent QuantityActual QuantityUOMNA00CMD

Part-B (Water & Raw Material Consumption)

Process		500.00			1530.00		
Cooling		0.00 65.00			0.00		
Domestic					65.00		
All others		0.00			0.00		
Total		565.00			1595.00		
2) Effluent Genera	ation in CMD / MLD						
Particulars Trade Effluent			Consent Quant 13230	ity	Actual Quantity 14977		UOM CMD
2) Product Wise P	Process Water Consumpt	ion (cubic meter	of				
Name of Products			During the financial \		During the o		иом
Mining			140276		149488		CMD
	Consumption (Consumpti	on of raw					
material per unit of product) Name of Raw Materials			During the Prev financial Year	ious	During the curre Financial year	nt	иом
Explosives			3883422		2459893		Kg/Annum
4) Fuel Consumpt Fuel Name	ion	Composit sure		Actual		110	
Diesel		Consent qua 0	antity	4369050	Quantity)	UO Ltr/	
Part-C							
Pollution discharg	ged to environment/unit	of output (Param	neter as specified	d in the co	nsent issued)		
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration discharged(Mg) PH,Temp,Colou Concentration	/Lit) Except	from p	tage of variation rescribed rds with reasons tion	Standard	Reason
Monitoring Report Enclosed in Step-l	0	0		0		0	0
[B] Air (Stack)	Our matital of		i Dallasta art	De see			
Pollutants Detail	Pollutants discharged (kL/day)	Concentration of discharged (Mg/N		from pre standard	ls with reasons		_
NA	Quantity 0	Concentration 0		%variati 0	on	Standard 0	Reason 0
Part-D							
HAZARDOUS WAS	TES						
1) From Process							

1) From Process			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	28.81	31.71	KL/A
5.2 Wastes or residues containing oil	2.65	2.16	Ton/Y
35.3 Chemical sludge from waste water treatment	61.43	40.87	Ton/Y

2) From Pollution Control			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD
Part-E			

d	ΠU	Э	6	

SOLID WASTES

1) From Process			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Overburden	12292000	6435600	M3/Anum

2) From Pollution Control Facilities			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	CMD

<u>unit</u>			
Waste Type	Total During Previous Financial	Total During Current Financial	иом
	year	year	
0	0	0	KL/A

Part-F

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

1) Hazardous Waste

3) Quantity Recycled or Re-utilized within the

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
35.3 Chemical sludge from waste water treatment	44.65	Ton/Y	Disposed to authorized TSDF
5.1 Used or spent oil	84	KL/A	Auctioned to CPCB authorized recyclers
5.2 Wastes or residues containing oil	3.76	Ton/Y	Disposed to authorized TSDF

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Overburden	6435600	M3/Anum	OB was stored as external OB Dump

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Impact of Pollution Control Measures	0	0.33	1423529	0	9.175	0

Part-H

Detail of measures for Environmental Protection

Environmental Protection Measures Capital Investment (Lacks)

Capital Expenditure Piezometer for groundwater monitoring 9.175

[B] Investment Proposed for next Year

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

Capital Investment Air & Water Pollution Control Measures 138.20

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Attachments as required.

Name & Designation

S. K. Sethy, Sub Area Manager, BOCM

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000060809

Submitted On:

29-09-2023

Annexure-S



Environment Deptt. WCL-Chandrapur Area <wclchaenv@gmail.com>

Compliance of Condition No. (viii) under Miscellaneous Head of EC granted to Bhatadi Opencast Mine of WCL-Chandrapur Area.

1 message

Environment Deptt. WCL-Chandrapur Area <wclchaenv@gmail.com>

Mon, Feb 15, 2021 at 4:32 PM

To: eccompliance-mh@gov.in, apccfcentral-ngp-mef@gov.in, moefregionalofficenagpur@gmail.com Cc: "GM GM(ENVIRONMENT)" <gmenvironment.wcl@coalindia.in>, Kaushik Chakraborty <wclenv07@gmail.com> Bcc: Hemendra Shinde hbshinde@rediffmail.com, rajesh ratawa rajesh@gmail.com>, rajesh ratawa rajesh@gmail.com>

Ref. EC No.: J-11015/151/2014-IA-II (M) Dtd: 13.03.2020

Dear Sir,

In relation to "Compliance of Condition No. (viii) under Miscellaneous Head of EC granted to Bhatadi Opencast Mine of WCL-Chandrapur Area", your good office is hereby informed that Mining operations have commenced at Bhatadi OC after obtaining due clearance from Maharashtra Pollution Control Board (MPCB).

CTE was approved during 25th Meeting of 2019-20 dtd: 03.03.2020 & 04.03.2020 (copy attached)

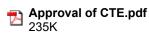
In principle approval of CTO received vide email from ast@MPCB.gov.in dtd: 26.03.2020 for commencement of operation. (copy attached)

Formal CTO issued vide Format1.0/CAC/UAN/No. 0000088190/CO-2005000271 dtd: 08.05.2020

This is for your information & record.

Regards **Environment Department WCL-Chandrapur Area**

2 attachments





In Principle Approval of CTO.pdf

Sr. No.	Application Unique Number	Industry name and Address	Decision on grant of consent	Consent granted Upto	Remarks / Discussion
	(C2E-Expansion) & MPCB- CONSENT- 0000088073 (C2O Expansion)	Western Coalfields Limited, Wani Area	1st consent to operate for expansion along with amalgamation of existing consent with change in name.		existing consent with change in name from M/s Mungoli Open Cast Mine to M/s Mungoli Nirguda Extension Deep Open Cast Mine. Committee also noted that, PP has obtained Environmental clearance. Also noted that, Renewal of existing consent for coal mining activity (UAN No.72533) capacity 4.0 MTPA was discussed and approved in the CAC meeting held on 07.01.2020. In view of above, it was decided to grant First consent to operate with expansion along with amalgamation of existing consent by forfeiting proportionate BG and imposing fresh BG as per BG regime for the coal mines. Consent shall be issued after receipt additional consent fees if any.
2	MPCB- CONSENT-88185 (C2E-Expansion) MPCB- CONSENT-66844 (C2R-Existing mine)	M/s Bhatadi Open Cast Mine, Western Coalfields Limited, Chandrapur Area, Chandrapu	APPROVED Consent to establish for expansion of coal mine from 0.975 MTPA to 1.465 MTPA (for 0.49 MTPA) & Renewal of consent for Existing mine	Commissioning of the unit or 5 years whichever is earlier. (For C2E-Expansion) 31.03.2021 (for renewal of existing mine)	Committee noted that, PP has applied for Consent to establish for expansion of coal mining activity from 0.975 MTPA to 1.465 MTPA within mine lease area of 847.37 ha. Committee also noted that, Environmental clearance has been recommended for expansion during 52nd meeting of Expert Appraisal Committee (EAC) dated 24.01.2020. Committee also noted that, Renewal of consent of existing coal mining (UAN No.66844) for 0.975 MTPA was discussed and deferred in the CAC meeting held on 07.01.2020 and it was decided to keep the case in abeyance & call the PP for presentation towards JVS exceedance and measures taken towards improvement of pollution control system provided. Committee also noted that, PP has submitted the presentation towards JVS exceedance and measures taken towards improvement of pollution control system provided vide email dated 07.02.2020.

Sr. No.	Application Unique Number	Industry name and Address	Decision on grant of consent	Consent granted Upto	Remarks / Discussion
					Committee further noted that PP had provided ETP, sedimentation tank and STP for the treatment of Trade effluent and sewage. Also provided sprinkler along with coal transportation road and around CHP. Also provided mobile tanker to control dust emission. NOC from CGWA is approved. The JVS results of Air samples are exceeded the consented limits.
					In view of above, It was decided to grant renewal of consent to operate for existing mine for 0.975 MTPA for the period up to 31.03.2021 by forfeiting proportionate BG and imposing fresh BG as per BG regime for mines. Consent shall be issued after receipt of copy of NOC of CGWA and additional fees if any.
					Also it was decided to grant consent to establish for expansion of coal mining activity from 0.975 MTPA to 1.465 MTPA within mine lease area of 847.37 ha with the condition to obtain Environment Clearance for expansion and shall not take any effective steps for implementation of the expansion project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto.

After due-deliberation to promote e-Mobility for reduction of Vehicular emission, it has been decided that, the new construction projects having BUA more than 50,000 M² and all the common parking projects shall provide Electric Battery charging stations for two-wheeler & four-wheeler vehicles so as to cater at least 20% of the parking capacity.

The meeting is ended with vote of thanks.

[WARNING: This Mail may be Spoofed] Application for first consent to operate for expansion

From: ast@mpcb.gov.in

Thu, Mar 26, 2020 01:22 PM

Subject: [WARNING: This Mail may be Spoofed] Application for

first consent to operate for expansion

To:gmwclcha@gmail.com, GM

GM(MINING), CHANDRAPURAREA <agmchandrapur.wcl@coalindia.in>

Cc: chairman@mpcb.gov.in, ms@mpcb.gov.in, cac-

cell@mpcb.gov.in

To.

M/s. Bhatadi open Cast Mine Project (Expansion Project) Post-Bhatadi Tal & Dist: Chandrapur

Sub-Application for first consent to operate for expansion i.e additional coal mining activity of 0.49 MTPA (i.e from 0.975 MTPA to 1.465MTPA) at M/s. Bhatadi open Cast Mine Project (Expansion Project) Post-Bhatadi Tal & Dist: Chandrapur- Regarding

Sir.

This office is in receipt of your applications for consent to 1St operate for expansion of additional coal mining activity of 0.49 MTPA i.e from 0.975 MTPA to 1.465MTPA at Bhatadi open Cast Mine Project (Expansion Project) Post-Bhatadi Tal & Dist: Chandrapur. Considering your request and urgency, your application has been considered through Circulation Agenda of Board's CAC and formal consent may be issued as soon as possible. The Project Proponent is advice to take up the operation subject to EC conditions and standard conditions for coal Mines.

This is issued with the approval of competent Authority of the Board.

Thanks and Regards

(P.K.Mirashe) Assistant Secretary (Technical) MPCB Mumbai.