



GUJARAT MINERAL DEVELOPMENT CORP. LTD.

(A GOVT. OF GUJARAT ENTERPRISE)

Corporate Identity No. (CIN)-L14100GJ1963SGC001206

Tadkeshwar Lignite Project

(An ISO 9001, 14001 & 45001 Certified Unit)

Po : Tadkeshwar, Tal : Mandvi, Dist : Surat, State : Gujarat-394170.

Email : gm.mines.tadkeshwar@gmdcltd.com Website: www.gmdcltd.com

GMDC/TAD/ ENV/ 316 /2025-26

Date: 09/06/2025

To,
IRO, Gandhinagar,
Room No 407, Aranya Bhawan,
Near CH-3 Circle, Sector 10A, Gandhinagar,
Gujarat – 382010
Telephone no: 079-23255067

Sub: Submission of six monthly compliance report of environmental clearance for the period from October-24 to March-25 of Tadkeshwar Lignite Mines of M/S. GMDC Ltd.

Ref: 1. MoEF EC Letter no: I-11015/144/08-IA.II (M) dated 27.08.2010
2. MoEF EC Letter no: J-11015/144/2020-IA (M) dated 17.02.2022

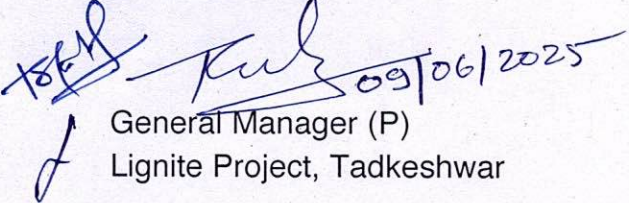
Dear Sir,

With reference to the above subject, please find enclosed herewith the half yearly compliance report of Gujarat Mineral Development Corporation Limited, Lignite Project Tadkeshwar for the period of October-24 to March-25.

This is for your kind information Please..

Thanking you,

For GMDC Ltd,


General Manager (P)
Lignite Project, Tadkeshwar

Encl: As Above.

CC To:

1. General Manager (Environment), Corporate Office, GMDC Ltd., Ahmedabad
MoEF File
2. Environment file, Lignite Project Tadkeshwar

Tadkeshwar opencast lignite mine project (capacity expansion from 01 MTPA to 2.5 MTPA of lignite and 1 MTPA of Limestone in and ML area of 964.44 ha) vide MoEF Environment Clearance Letter No. J- 11015/144/08-IA. II (M) dated 27th August, 2010 and J-11015/144/2020-IA (M) dated 17th February, 2022

1. Specific Conditions

- i. Top soil shall be stacked properly with proper slope at earmarked site (s) and shall not be kept active and shall be used within a year of its generation for reclamation and development of green belt.

Compliance: During October-24 to March-25, 0.00 Lac M3 topsoil had been excavated and Stacked at designated location.

- ii. OB shall be stacked at earmarked external OB dump site within ML area. The ultimate slope of the existing dumps shall not exceed 28^o. Monitoring and management of existing reclaimed dump sites shall continue until the vegetation becomes self sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis.

Compliance: During October-24 to March-25,

For extraction: 1.1486 Ha of fresh excavated area covering 103.79 Lakh M3 OB/IB, loose inpit and external dump from western side, dump no 3 and its adjoining back filled dump for extraction of lignite.

For Dumping: Inpit dump of 54 Ha southside below ground level partially.
External Dump : 28.50 Ha height of approx. 35 meter.

- iii. A garland drain all around and encircling the two quarry pits shall be established to drain the water away from working areas. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. the drains shall be regularly de-silted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper setting of silt material.

Compliance:

Catch drain and garland drains with proper size have been created around mine pit and OB dump is keeping safety margin.

Depth of garland drain is 1.5 to 2.5 m, length of the drain around pit is 4 KM and around outside dump is 6.5 KM and adequate capacity silting pond is also prepared.

Moreover, total 15 silting ponds are present to arrest the flow of silt along with runoff at different locations near to the dumps. The cleaning of all the silting ponds is undertaken as a pre monsoon preparation activity every year.

Water so collected is being utilized for watering the mine area, roads, green belt development etc.



Garland drain preparation

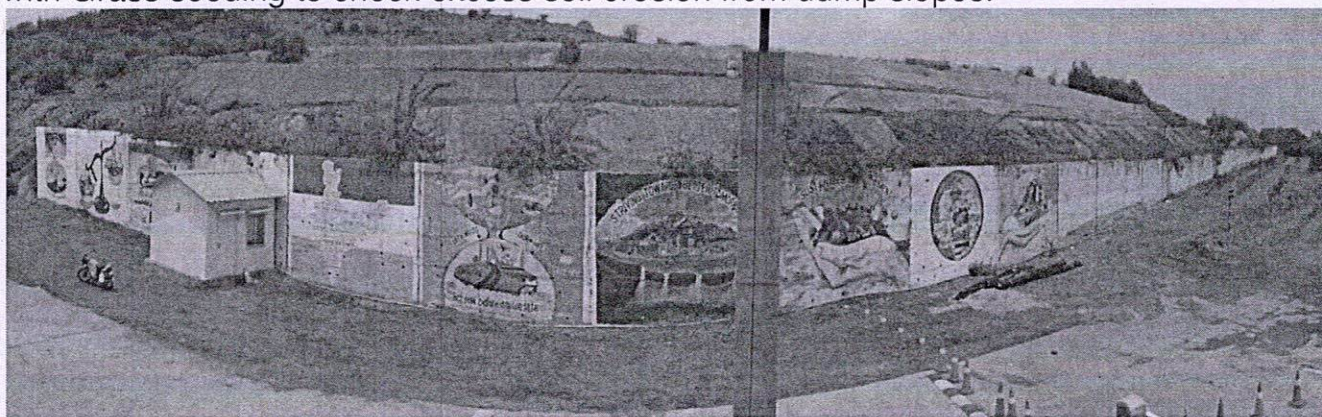


Silting pond preparation

- iv. **Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run off and siltation shall be based on the rainfall data.**

Compliance: Retaining wall construction work is completed for 450 running meter, at the toe of the external dump situated towards North East corner of South pit, Parallel to Kim-Mandvi State Highway: 65 is constructed to check soil erosion.

Moreover, Dump slopes have also been covered using Geo coir mats and are covered with Grass seeding to check excess soil erosion from dump slopes.



Pictures of Retaining Wall

- v. **A Mine drainage plan with a surface drainage design of the mine resulting from surface run offs and seasonal nallah found within the active mining area and for the mine discharge water based on a peak rainfall data shall be prepared and implemented.**


Compliance: There is no significant nallah, etc. exists in the ML area. The detailed study has been done by M.G. Science Institute Ahmedabad. The suggestions are

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already implemented. Water drainage path plan is prepared based on R.L. and is available with the project.

Rainfall Report: 2024-25

 RAIN FALL REPORT FY2024-25 IN COMPARE WITH Last FY 2024-25 TADKESHWAR LIGNITE MINE, GMDC LTD											
Current Year-FY2024-25											
MONTH	RAIN FALL	MONTH	RAIN FALL	MONTH	RAIN FALL	MONTH	RAIN FALL	MONTH	RAIN FALL	MONTH	RAIN FALL
May-24	[MM]	Jun-24	[MM]	Jul-24	[MM]	Aug-24	[MM]	Sep-24	[MM]	Oct-24	[MM]
5/13/24	23	6/7/24	71	7/1/24	117	8/1/24	25	9/1/24	2	10/10/24	25
		6/9/24	9	7/2/24	5	8/2/24	41	9/2/24	150	10/11/24	15
		6/16/24	7	7/3/24	4	8/3/24	47	9/3/24	23	10/12/24	53
		6/19/24	2.5	7/4/24	89	8/4/24	3	9/4/24	17	10/13/24	3
		6/20/24	2.5	7/5/24	93	8/5/24	10	9/5/24	6	10/18/24	14
		6/22/24	33	7/6/24	11	8/6/24	2	9/6/24	52	10/19/24	34
		6/23/24	23	7/7/24	5	8/7/24	5	9/7/24	0	10/20/24	2
		6/24/24	13	7/8/24	1	8/8/24	4	9/8/24	2	10/21/24	19
		6/28/24	35	7/9/24	0	8/9/24	0	9/9/24	5	10/22/24	21
		6/29/24	90	7/10/24	0	8/10/24	24	9/10/24	28		
		6/30/24	97	7/11/24	19	8/11/24	16	9/11/24	3		
				7/12/24	18	8/12/24	12	9/12/24	2		
				7/13/24	2	8/13/24	4	9/13/24	11		
				7/14/24	20	8/14/24	15	9/14/24	21		
				7/15/24	7	8/15/24	1	9/15/24	0		
				7/16/24	0	8/16/24	7	9/16/24	0		
				7/17/24	0	8/17/24	14	9/17/24	0		
				7/18/24	14	8/18/24	0	9/18/24	0		
				7/19/24	8	8/19/24	0	9/19/24	0		
				7/20/24	7	8/20/24	7	9/20/24	0		
				7/21/24	182	8/21/24	0	9/21/24	0		
				7/22/24	93	8/22/24	0	9/22/24	0		
				7/23/24	320	8/23/24	56	9/23/24	7		
				7/24/24	55	8/24/24	85	9/24/24	2		
				7/25/24	9	8/25/24	83	9/25/24	18		
				7/26/24	1	8/26/24	36	9/26/24	25		
				7/27/24	14	8/27/24	43	9/27/24	63		
				7/28/24	10	8/28/24	11	9/28/24	30		
				7/29/24	12	8/29/24	8	9/29/24	17		
				7/30/24	13	8/30/24	0	9/30/24	0		
				7/31/24	13	8/31/24	0				
Monthly Cumm.	23.0	Monthly Cumm.	383.0	Monthly Cumm.	1142.0	Monthly Cumm.	559.0	Monthly Cumm.	484.0	Monthly Cumm.	186.0
Yearly Cumm.	23.0	Yearly Cumm.	406.0	Yearly Cumm.	1548.0	Yearly Cumm.	2107.0	Yearly Cumm.	2591.0	Yearly Cumm.	2777.0

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- vi. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May) Monsoon (August), post monsoon (November) and winter (January) seasons and for quality (including TDS and acid mine water) in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring water quality parameter such as TDS, Sulphate, Nitrate etc, and acidic mine water if any shall be treated to confirm to prescribe standards before discharge or use in dust suppression /green belt development. Records of the water quality of the mine discharge water shall be maintained. Recognized institutions such as National Geophysical Research Institute, Hyderabad shall be involved for undertaking such a study.

Compliance: Ground water level is regularly monitored through network of 5 nos. of bore wells. The seasonal quality analysis of parameters such as Nitrates, Sulphates, and TDS etc. is also done through recognized labs & the reports are as below.

The bore well water level readings are as follows:

	Tube Well No				
	E3	A3	RW-II	RW-V	E.T.P Bore Well
Location	M/s-Durga Camp	Near Petrol Pump	SSW corner Near Vodafone tower	Behind Near time Office	E.T.P. Plant
Oct'24	10.00	7.50	19.50	13.00	6.00
Nov'24	11.00	8.50	21.50	14.50	7.50
Dec'24	9.50	8.0	23.00	14.00	6.50
Jan'25	11.00	9.0	22.00	15.50	9.00
Feb'25	12.00	9.50	21.50	16.50	12.50
Mar'25	10.50	8.50	25.50	13.50	14.00

Monthly monitoring of accumulated water in pit is done by MOEFCC & Gujarat Pollution Control Board recognized laboratory. Mine water is treated to confirm to prescribe standards before discharge or use in dust suppression / green belt development.

Records for the water quality of the mine discharge water are maintained, summary of analysis for last six month is mentioned above.

Seasonal analysis for drinking water from bore-well source is also done from Government recognized laboratories.

- vii. Water quality parameters such as TDS, sulphates, nitrates etc were high and mine water should be treated to conform to prescribed standards before discharge of use in dust suppression/Green belt development. Records of the water quality of the mine discharge water shall be maintained.

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Compliance: ETP having capacity of 50 m³/hr is used to treat mine pit water to prescribed standards and treated water is used in Dust suppression and plantation purposes. Records of the water quality of the mine discharge water shall be maintained. Report of mine pit water quality is attached as follows along with min, max and average values.

Tadkeshwar Waste Water Results From OCT-24 to MAR-25											
Parameter	Unit	Results of respective Months							Min	Max	Average
		OCT	NOV	DEC	JAN	FEB	MAR				
pH at 25 °C	-	7.52	7.45	7.63	7.83	7.23	7.60	7.2	7.8	7.54	
Temperature °C	°C	28.00	27.50	26.90	25.90	26.20	25.60	25.6	28.0	26.68	
Color	CU	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	BQL(QL=1)	5.00	5.0	5.00	
Sulphate	mg/L	31.25	27.74	35.03	28.69	27.92	37.69	27.7	37.7	31.39	
Hexavalent Chromium as Cr ⁶⁺	mg/L	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	BQL(QL=0.05)	0.0	0.0	#DIV/0!	
Phenolic Compound as C ₆ H ₅ OH	mg/L	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	BQL(QL=0.01)	0.0	0.0	#DIV/0!	
Total Dissolved Solids(TDS)	mg/L	555.00	613.00	793.00	600.00	625.00	380.00	BQL	793.0	594.33	
Total Suspended Solids(TSS)	mg/L	11.00	15.00	23.00	BQL(QL=10)	16.00	BQL(QL=10)	11.0	23.0	16.25	
Oil & Grease	mg/L	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	0.0	0.0	#DIV/0!	
Chloride	mg/L	92.47	105.97	135.96	109.96	110.96	56.98	BQL	136.0	102.05	
COD	mg/L	24.00	32.00	40.00	36.00	36.00	16.00	16.0	40.0	30.67	
Ammonical Nitrogen as NH ₃ -N	mg/L	5.04	4.48	5.60	3.92	3.92	BQL(QL=0.5)	3.9	5.6	4.59	
Sulphide	mg/L	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	BQL(QL=0.2)	BQL	0.0	#DIV/0!	
BOD	mg/L	9.60	9.00	12.00	10.00	10.00	6.17	6.2	12.0	9.46	

viii. The Company shall put up artificial groundwater recharge measures such as check dams within and adjoining the lease for augmentation of groundwater resource in case monitoring indicates decline in water table, in consultation with the local communities and with the Wildlife Department of the State Government. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.

Compliance: Check dams/ponds have been renovated at the cost of Rs. 12 Lakhs in nearby areas which are useful for ground water recharging & Rs. 15.0 Lakhs are also contributed towards government water recharging schemes through Narmada jalsanchay yojana in this region during past.

This is already a working mine and till date no adverse impact is observed in terms of ground water depletion. The study by National Geophysical research institute (NGRI, Hyderabad) shows that water level has risen not only in this locality but also in entire Mandvi Taluka of Surat because of high rainfall. This rise is comparatively low in ML area due to occurrence of poor aquifer conditions and presence of more impervious clayey formation.

Moreover, the study also indicates there is rise of water table in the nearby farm areas & it has no connection with the Ground water pumping from the mines. This is due to the presence of the two canals both the adjacent sides of mines.

This locality is covered under government irrigation and drinking water schemes. However, if required the Corporation is committed to meet the water requirement for nearby villages.

ix. No mining shall be carried below 94 m depth bgl; No groundwater shall be used for mining operations. Additional water required, if any, shall be met by recycling/reuse of the water from the existing activities and from rainwater harvesting measures.

Compliance:

As per revised EC, Mining work permitted at the depth of 135m bgl; No groundwater is used for mining operations. Water seepage in mines is reused for dust suppression activity inside the mine on haul roads to control dust pollutions as showing photograph below.



Water sprinkling on haul road

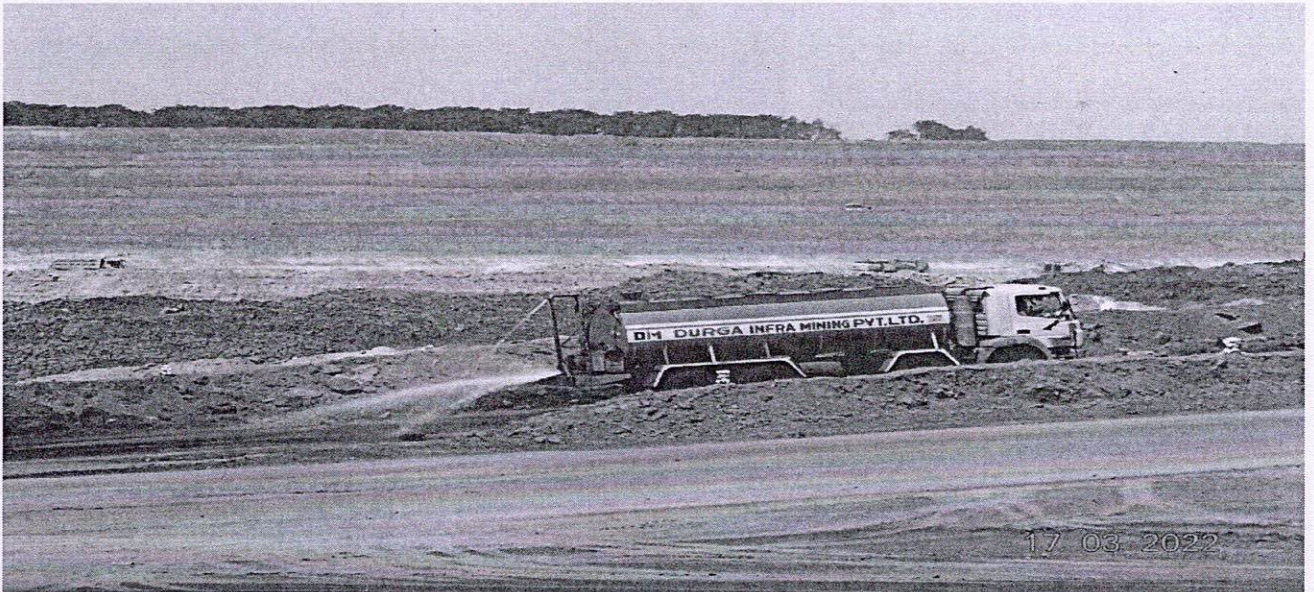
- X. **Water sprinkling system shall be provided to check fugitive emissions, haulage roads, transfer points, etc and fugitive dust emissions shall be kept under control.**

Compliance: Complied.

Four movable water sprinklers are deployed for water sprinkling at all vulnerable points to keep fugitive dust emissions under control on regular basis.

Fixed sprinkler jets (Rain gun) installed at various areas of Traffic congestion/ dusty areas i.e. near Weigh bridge & truck haul road.

Continuous water spraying system is installed in the truck road to prevent dust pollution – Month wise quantity of water used for sprinkling & plantation and photographs of water sprinkling activity are shown below.

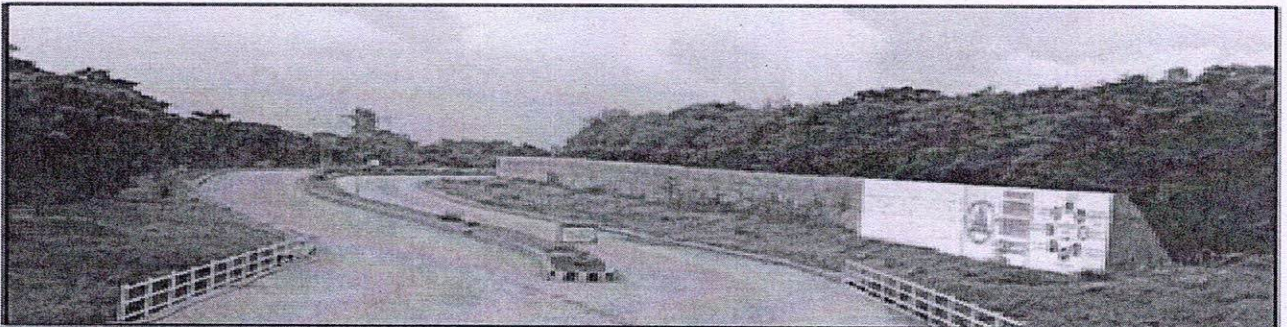


Water tanker sprinklers on Haul road

- xi. All approach roads, major haul roads and road to village shall be black topped.**

Compliance: Main village road of Tadkeshwar- is already black topped under PWD scheme. Black topped road is passing through the ML area.

2.5 KM C.C. Road construction work is completed on main haul road which will prevent dusting due to plying of heavy vehicles and the emission from other supporting haul roads is kept at minimum level by frequent water sprinkling and for preventing the dust spread, avenue plantation is also carried out to minimize the Dust generation as well as noise generation due to vehicles.



Photograph of C.C. Road

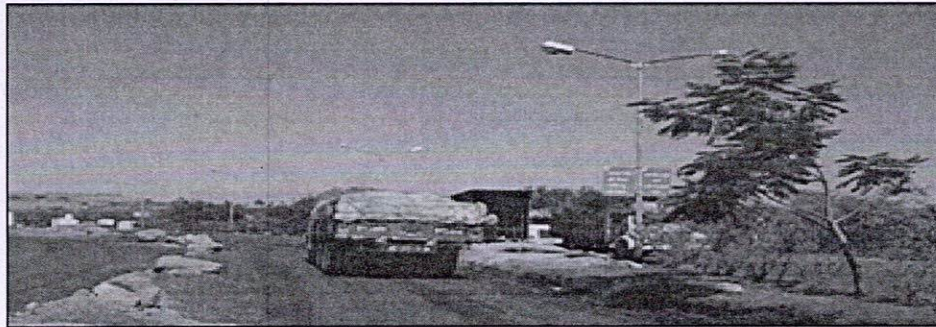
- xii. No drilling and blasting shall be carried out. Controlled blasting shall be carried out only where hard strata are encountered.**

Compliance: This is being followed. Presently drilling and blasting is not required due to comparatively soft strata.

- xiii. **Transportation of lignite to Vapi and Ankleshwar being critically polluted areas shall be in trucks of 20 –T capacity or more covered with tarpaulin.**

Compliance: Transport of lignite is under the scope of customers purchasing the lignite. GMDC is in contact with customers for increasing the size of trucks but huge investment is required by small transporters, therefore they will do it in phased manner.

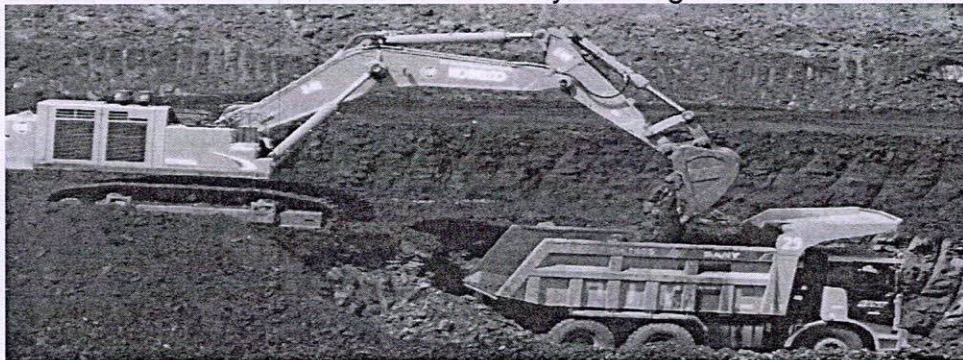
All trucks carrying lignite are covered with tarpaulin & they are checked before leaving the mine premises.



Photographs Tarpaulin covered trucks

- xiv. **No stockpile of lignite shall be permitted. The lignite produced from mine face shall be transported immediately.**

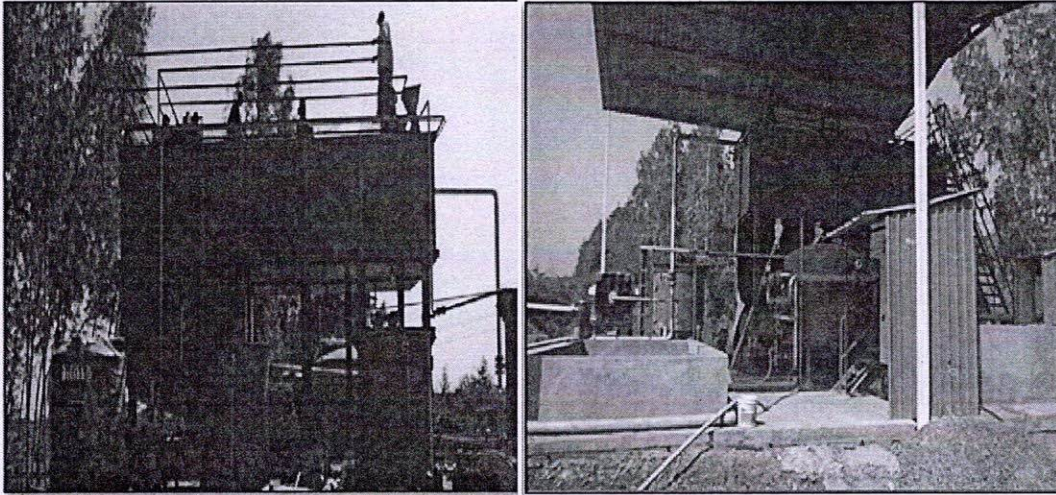
Compliance: Consumer trucks are loaded directly from lignite face.



Photographs of consumer truck loading from Face

- xv. **ETP shall be provided for workshop and CHP. Effluents shall be treated to conform to prescribed standards, particularly for pH and TDS in case of discharge into any water course outside the lease.**

Compliance: Water pH & TDS are monitored regularly to check the quality of mine pit water. To check oil & grease from waste water generated during washing of the machineries, Oil & grease skimmer has been installed of capacity to remove 25 LPH of oil from workshop effluent. Moreover, ETP of 50m³/hr capacity is continuous in operation to treat the mine seepage water. Treated water is reused for dust suppression and plantation. There is no CHP in this mine.



Photographs of ETP plant

- xvi. **A pre mining Socio- economic survey shall be undertaken and impact of CSR assessed every 3 year and furnished as part of the monitoring report. Land oustees if any, shall be compensated as per norms laid out in the National R&R policy 2007.**

Compliance: Corporate Social Responsibility plan was prepared at initial pre-mining stage based on Socio-economic condition of that area & was implemented. CSR assessment report for last three years i.e. 2018-22 was already submitted to ministry in past.

No R&R involved for human settlements.

The compensation for land is paid as per prevailing rate and norms. Most of land oustees' families have their own trucks and have deployed the same in GMDC for lignite transportation

- xvii. **A onetime capital investment of Rs. 10.08 crores under CSR for the six villages indentified for CSR namely - Rosvad, Togapur, Ushker, Ramkund, Virpor, and Munjlav and revenue expenditure of Rs. 5/tonne of coal shall be earmarked for CSR. The details of expenditure and various activities shall be drawn up in consultation with the local communities and implemented through VDICs. The socio-economic development of the villages shall be monitored over the life of the project and impact of CSR assessed every 3 years using indices such as the UNDP Human Development Index and furnished as part of the monitoring report and also regularly uploaded on the company website.**

Compliance: A CSR plan is already prepared for these six villages emphasizing on infrastructure development (Road, Sanitation), economy (IGP/ME, Market access), social development (Health, education) and capacity building (marketing, technology access and training).

The compliance of diverting Rs. 5/tonne of lignite for CSR activities will be achieved in phased manner through direct investment and contribution in the Government scheme for the developmental activities to uplift living standard.

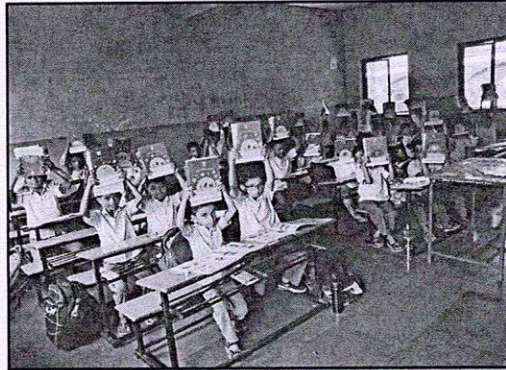
Corporate Social Responsibility plan was prepared at initial pre-mining stage based on Socio-economic condition of that area & was implemented. CSR assessment report for last three years is under preparation will be submitted along with next compliance report.

**Environmental Clearance Compliance Report
(October 2024-March 2025)**

2025

Expense of Rs. 14,881,193/- was done during the period Oct 24 – Mar 25 as stated in table below:

STATEMENT SHOWING THE DETAILS OF CSR ACTIVITIES from APRIL-2024 TO March,2025						
Sr.No.	Type of Work	Project/Village	Number of Beneficiaries	Date of Starting	Date of Completion	Cost of Work(Rs.)
1	Education	Tadkeshwar/VIBHAG HIGH SCHOOL	2220 NOS. Full scape note books given to 370 students	15/02/2024	6/8/24	91020.00
		KUMAR SCHOOL -TADKESHWAR	1920 NOS. NOTE BOOKS GIVEN TO 192 STUDENTS	15/02/2024	5/8/24	59520.00
		KANYA SCHOOL - TADKESHWAR	1630 NOS. NOTE BOOKS GIVEN TO 163 STUDENTS	15/02/2024	5/8/24	50530.00
		PRIMARY SCHOOL Vari Gruh - TADKESHWAR	750 NOS. NOTE BOOKS GIVEN TO 75 STUDENTS	15/02/2024	5/8/24	23250.00
		HIGH SCHOOL FALAHI -TADKESHWAR	1560 NOS FULL SCAPE. NOTE BOOKS GIVEN TO 260 STUDENTS	15/02/2024	5/8/24	63960.00
		HIGH SCHOOL FALAHI -TADKESHWAR	7910 NOS. NOTE BOOKS GIVEN TO 791 STUDENTS	15/02/2024	5/8/24	245210.00
		Virpor	1330 NOS. NOTE BOOKS GIVEN TO 133 STUDENTS	15/02/2024	5/8/24	41230.00
		Hariyal	510 NOS. NOTE BOOKS GIVEN TO 51 STUDENTS	15/02/2024	5/8/24	15810.00
		Karanj	1930 NOS. NOTE BOOKS GIVEN TO 193 STUDENTS	15/02/2024	5/8/24	59830.00
		Varethi	2300 NOS. NOTE BOOKS 230 STUDENTS	15/02/2024	5/8/24	71300.00
		Roshwad	2230 NOS. NOTE BOOKS GIVEN TO 223 STUDENTS	15/02/2024	5/8/24	69130.00
		Sarwati Vidhyalaya Ushker –Ramkund	468 NOS FULL SCAPE. NOTE BOOKS GIVEN TO 78 STUDENTS	15/02/2024	6/8/24	19188.00
		Sarwati Vidhyalaya Ushker –Ramkund	1880 NOS . NOTE BOOKS GIVEN TO 188 STUDENTS	15/02/2024	6/8/24	58280.00
		Primary School Nogama	1410 NOS. NOTE BOOKS GIVEN TO 141 STUDENTS	15/02/2024	5/8/24	43710.00
		Primary School Togapur	690 NOS. NOTE BOOKS GIVEN TO 69 STUDENTS	15/02/2024	5/8/24	21390.00
		PRIMARY SCHOOL Ushker –Ramkund	2440 NOS. NOTE BOOKS GIVEN TO 244 STUDENTS	15/02/2024	5/8/24	75640.00
2	Education	Tadkeshwar/VIBHAG HIGH SCHOOL, KUMAR SCHOOL OF TADKESHWAR, KANYA SCHOOL OF TADKESHWAR & Roshwad Grampanchayat etc.	celebration of Independence day (15-08-2024) sweets given to 2750 students of school.	2/8/24	13/08/2024	12764.00
3	SOCIAL WELFAARE	MANDVI	BENCHES NO. 30 GIVEN TO TALUKA SEVA SADAN, MANDVI.	7/8/24	3/19/25	285413.00
4	SOCIAL WELFAARE	MANDVI	A.C.NO.6 & WATER COOLER NO.03 GIVEN TO TALUKA SEVA SADAN, MANDVI.	7/8/24	3/19/25	4,71,496
5	SOCIAL WELFAARE	MANDVI	chair NO.35 GIVEN TO TALUKA SEVA SADAN ,MANDVI.	7/8/24	3/19/25	181018.00
TOTAL						14,88,193



- xviii. A 50 m wide green belt shall be created along the lease boundary using native species as peripheral plantation. Area brought under pastureland/ agricultural land shall not be less than 669.19 ha. Which includes reclaimed external OB dump area (97.59ha.), backfilled area (491.60 ha including 73 ha of grassland using native species), along ML boundary, along roads, green belt (80 ha.) and plantation in undisturbed areas (219.2501 ha) by planting native species in consultation with the local DFO/Agriculture Department.

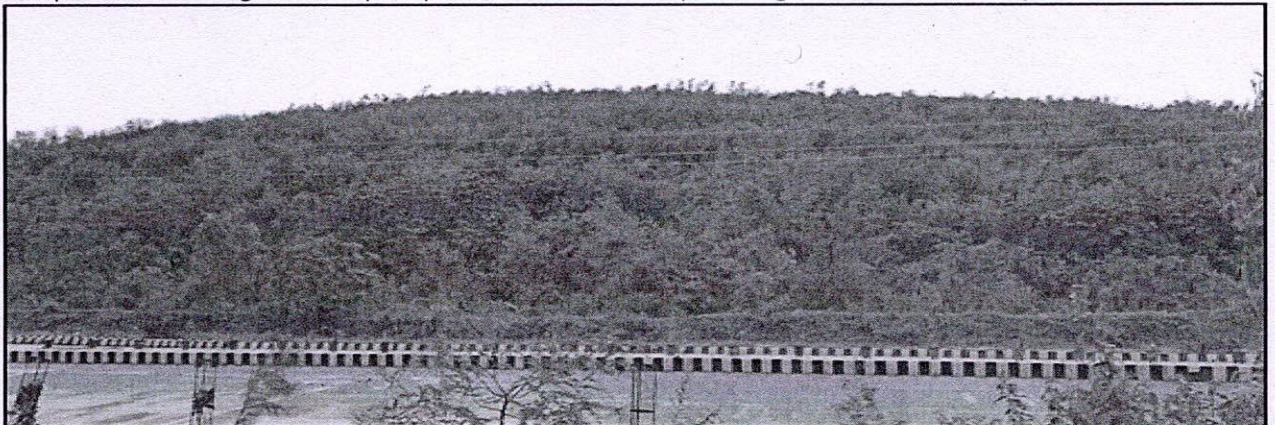
Compliance: Plantation is a regular activity being carried out in phased manner based on land availability.

Plantation is done by local social Forestry department giving priority to native species.

Live Plantation in **103.33 Hect** area is completed till date in ML area. In the year 2024-25 gap-plantation have been carried out for re-plantation.

Grassland development in 45 Hact area is also completed.

Further, the tree plantation and pasture development work in the backfilled and overburden dump area is being taken up in phased manner depending on the availability of the land.



Photographs of plantation on dump area, road side and gauchar land

- xix. A progressive Closure Plan shall be implemented of quarry area of which 491 .16 ha shall be backfilled and afforested by planting native plant species in consultation with the local DFO / Agriculture Department. The density of the trees shall be around 1500 plants per ha. It shall be ensured that the balance de-coaled void of 74 ha. Being left as a water body, the upper slopes of which shall be gently sloped and reclaimed with grass

**Environmental Clearance Compliance Report
(October 2024-March 2025)**

2025

and plantation. The quality of the water in the water body shall be regularly monitored and treated to ensure that in is not acidic.

Compliance: This is strictly being followed. Agreed

It is planned to backfill 565.6 ha mine pit up to the end of mine life where 491.6 ha will be planted (200 ha trees+ 291.6 ha pasture) in consultation with local Social Forestry Department. The plantation was done by departmentally & planning of native varieties such as Peltaforom, Neem, Bamboo, Nilgiri, etc. Density of trees is maintained in 103.339 Hect.

It is planned to make a 74 ha shallow deep water body lined with limestone at the end of mine life.

Detailed year wise plantation is mentioned in below table.

Year wise Plantation:

YEAR	Area in Ha.	Total Plantation	Survival Rate in %
2004-05	02.25	1800	30
2005-06	00.00	0	-
2006-07	01.00	3650	80
2007-08	13.85	31138	95
2008-09	08.00	9252	95
2009-10	13.49	21370	95
2010-11	15.44	29800	95
2011-12	00.60	7828	85
2012-13	13.41	36040	93
2013-14	02.68	7200	80
2014-15	10.00	21440	96
2015-16	00.00	0	0
2016-17	00.00	0	80
2017-18	10.00	17050	100
2018-19	06.00	10000	100
2019-20	06.30	10580	100
2020-21	04.00	6664	100
2021-22	-03.69	2500	100
2022-23	00.00	3500	100
2023-24	00.00	900	95
2024-25	00.00	300	90
TOTAL	103.33	220712	--

Note : Due to inpit dump slope failure in Dec-21about 4.19 Ha. Plantation lost.

The quality of the water in the water body is regularly monitored and treated to ensure that in is not acidic.



Photographs of plantation

- xx. For monitoring land use pattern and for post mining land use a time series of land use maps based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series) and the report submitted to MoEF and its regional office at Bhopal.

Compliance: It already has completed and submitted for the year 2017 to 2019 in Ministry. Further, land use pattern for the year 2019 and 2022 is under progress and shall be submitted to Ministry at the earlier.

- xxi. A final mine Closure Plan along with details of Corpus Found shall be submitted to the Ministry of Environment & Forests for approval 5 years in advance of final mine closure for approval. At the Post mining stage, land should be restored as pastureland/ agricultural land use.

Compliance: Complied.

2. General Conditions

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

Compliance: Agreed with the due respect.

- ii. **No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.**

Compliance: Month wise lignite production details for the half year Oct - 24 to Mar - 25 are as follows.

Sr. No.	Month	Lignite (MT)
1	Oct-24	56649.4
2	Nov-24	00.00
3	Dec-24	23866.38
4	Jan-25	22650
5	Feb-25	70474.775
6	Mar-25	117395.68
Total		291036.235

- iii. **Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, 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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in particulates shall be carried out at least once in six months.**

Compliance: This is being followed.

Based on the site feature and pollution potential considerations, Ambient air quality monitoring is being done at 5 stations:

1. ADM Building
2. Near North Pit Area
3. Near New Weigh Bridge Area
4. Near Time Office
5. At Gate No. 2

The results from October, 2024 to March, 2025 are as follows:

Environmental Clearance Compliance Report (October 2024-March 2025)

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Tadkeswar (All Ambient Air Results) (OCT-2024)											
Parameter											
Sr. No	Location	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	Carbon Monoxide (mg/m^3)	Arsenic ($\mu\text{g}/\text{m}^3$)	Nickel ($\mu\text{g}/\text{m}^3$)	mercury ($\mu\text{g}/\text{m}^3$)	Cadmium ($\mu\text{g}/\text{m}^3$)	Chromium ($\mu\text{g}/\text{m}^3$)
1	Nr. ADM Building	66.48	36.24	14.29	22.02	0.36					
2	Nr. Gate No.2	66.99	34.99	12.79	20.74	0.29					
3	Nr. Time Office	62.62	34.99	15.67	20.71	0.36					
4	Nr. New Weigh Bridge	67.77	35.41	14.02	21.77	0.4					
5	Nr. North Pit Mine	63.26	33.32	13.19	22.79	0.209					
NIL											
Tadkeswar (All Ambient Air Results) (NOV-2024)											
Parameter											
Sr. No	Location	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	Carbon Monoxide (mg/m^3)	Arsenic ($\mu\text{g}/\text{m}^3$)	Nickel ($\mu\text{g}/\text{m}^3$)	mercury ($\mu\text{g}/\text{m}^3$)	Cadmium ($\mu\text{g}/\text{m}^3$)	Chromium ($\mu\text{g}/\text{m}^3$)
1	Nr. ADM Building	57.02	32.49	11.28	16.72	0.45					
2	Nr. Gate No.2	72.38	37.08	13.49	19.87	0.35					
3	Nr. Time Office	57.83	30.83	11.9	18.81	0.41					
4	Nr. New Weigh Bridge	69.24	32.49	12.69	19.14	0.39					
5	Nr. North Pit Mine	68.74	36.24	14.28	21.26	0.46					
NIL											
Tadkeswar (All Ambient Air Results) (Dec-2024)											
Parameter											
Sr. No	Location	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	Carbon Monoxide (mg/m^3)	Arsenic ($\mu\text{g}/\text{m}^3$)	Nickel ($\mu\text{g}/\text{m}^3$)	mercury ($\mu\text{g}/\text{m}^3$)	Cadmium ($\mu\text{g}/\text{m}^3$)	Chromium ($\mu\text{g}/\text{m}^3$)
1	Nr. ADM Building	62.33	34.16	12.07	17.05	0.46					
2	Nr. Gate No.2	74.81	37.91	15.83	21.02	0.44					
3	Nr. Time Office	66.73	33.74	13.12	18.42	0.45					
4	Nr. New Weigh Bridge	71.58	34.99	13.96	19.55	0.42					
5	Nr. North Pit Mine	61.49	32.08	12.47	18.42	0.43					
NIL											
Tadkeswar (All Ambient Air Results) (Jan-2025)											
Parameter											
Sr. No	Location	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	Carbon Monoxide (mg/m^3)	Arsenic ($\mu\text{g}/\text{m}^3$)	Nickel ($\mu\text{g}/\text{m}^3$)	mercury ($\mu\text{g}/\text{m}^3$)	Cadmium ($\mu\text{g}/\text{m}^3$)	Chromium ($\mu\text{g}/\text{m}^3$)
1	Nr. ADM Building	66.83	32.49	15.49	21.42	0.48					
2	Nr. Gate No.2	77.31	35.41	15.28	23.52	0.42					
3	Nr. Time Office	64.91	35.83	12.65	22.07	0.46					
4	Nr. New Weigh Bridge	76.76	32.91	14.56	21.37	0.39					
5	Nr. North Pit Mine	66.85	30.41	13.29	20.91	0.42					
NIL											
Tadkeswar (All Ambient Air Results) (Feb-2025)											
Parameter											
Sr. No	Location	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	Carbon Monoxide (mg/m^3)	Arsenic ($\mu\text{g}/\text{m}^3$)	Nickel ($\mu\text{g}/\text{m}^3$)	mercury ($\mu\text{g}/\text{m}^3$)	Cadmium ($\mu\text{g}/\text{m}^3$)	Chromium ($\mu\text{g}/\text{m}^3$)
1	Nr. ADM Building	68.12	32.91	13.21	19.22	0.48					
2	Nr. Gate No.2	77.52	34.99	14.86	22.78	0.42					
3	Nr. Time Office	62.82	35.83	12.17	19.81	0.43					
4	Nr. New Weigh Bridge	74.51	30.83	13.69	21.73	0.38					
5	Nr. North Pit Mine	66.48	35.41	14.36	20.89	0.38					
NIL											
Tadkeswar (All Ambient Air Results) (Mar-2025)											
Parameter											
Sr. No	Location	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	Carbon Monoxide (mg/m^3)	Arsenic ($\mu\text{g}/\text{m}^3$)	Nickel ($\mu\text{g}/\text{m}^3$)	mercury ($\mu\text{g}/\text{m}^3$)	Cadmium ($\mu\text{g}/\text{m}^3$)	Chromium ($\mu\text{g}/\text{m}^3$)
1	Nr. ADM Building	63.44	30.83	12.72	18.11	0.33					
2	Nr. Gate No.2	64.56	31.24	11.58	17.37	0.34					
3	Nr. Time Office	60.95	29.99	10.25	17.24	0.27					
4	Nr. New Weigh Bridge	67.39	34.58	11.66	20.98	0.36					
5	Nr. North Pit Mine	65.53	33.74	13.12	19.93	0.38					
NIL											

**Environmental Clearance Compliance Report
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- iv. Data on ambient air quality (PM10, PM2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cd, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EP Rules, 1986 shall be furnished as part of the compliance report.

Compliance: Data on ambient air quality (PM 10, PM 2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cd, etc) and other monitoring data are regularly being submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board along with half yearly EC Compliance reports.

Monthly environmental monitoring is being carried out through Environmental Laboratory recognized by Gujarat Pollution Control Board & MoEFCC.

Air parameters of half year period Oct-24 to Mar-25 along with its situation wise Minimum, Maximum and Average values are mentioned as above.

Moreover, all parameters are within prescribed limits.

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

Compliance: Complied.

Preventive measures have taken to control the noise pollution through maintenance of the Silencers & proper lubrication of machineries etc. Moreover no drilling & blasting is carried out. Employees engaged for mining activity are being provided with personal protective equipments including ear plugs/Muffs.

Plantation in the premises further attenuates the noise generated at source.

Monthly noise monitoring is done to ensure the compliance.

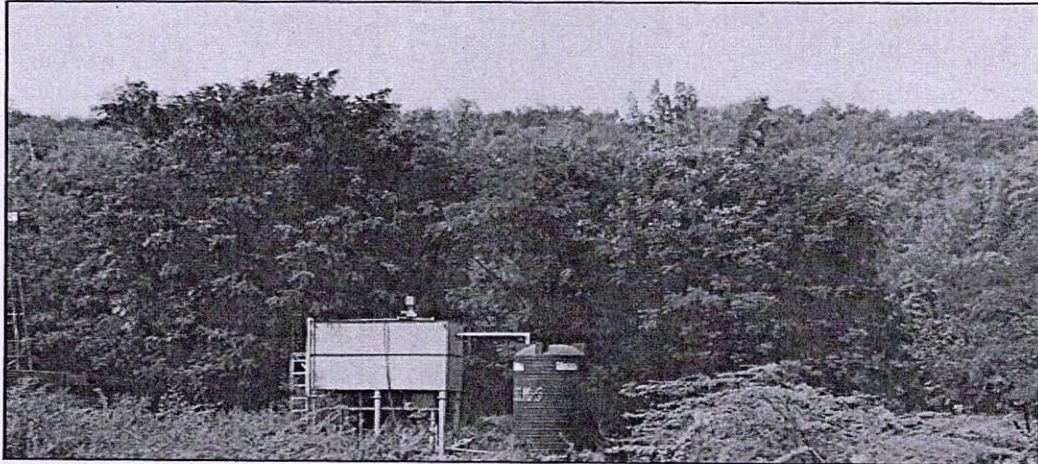
NOISE RESULTS	Oct-24		Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		Remarks
	Max	Min	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
Station 1- ADM building	74.1	62.8	65.8	46.9	63.5	44.6	65.3	48.5	68.1	48.6	75	62.8	All values are under prescribed Limits
Station 2- Near Gate no-2	71	61.2	60.6	51.5	60.6	48.3	58.3	50	61.7	52.7	69.1	61.2	
Station 3- Near time office	72.3	58.6	57.2	48.6	57.2	48.6	60	50.8	61.6	49.5	48.6	60	
Station 4- Near weigh bridge South pit	75	68.7	69.6	51	69.6	48.7	70.3	51.2	68.5	50.9	71	57.2	
Station 5- North pit mines	69.1	62.8	64.8	50.1	61.6	46.9	65.3	51.8	57.3	48.6	72.3	69.6	

- vi. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.

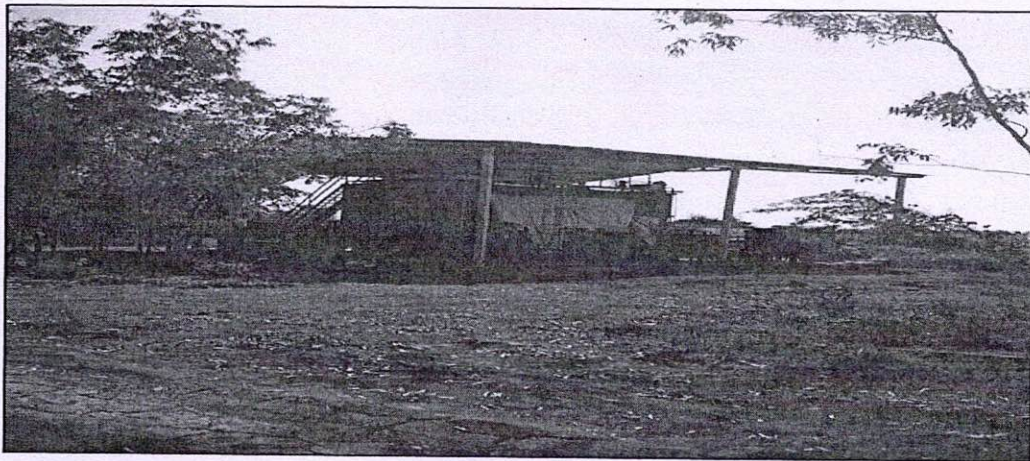
Compliance: Water quality is maintained under the prescribed limit & is utilized for purpose of sprinkling & watering plantation.

For reducing mine seepage and avoiding contamination, advance pumping of water is done from bore well on requirement which is used for domestic purpose & plantation.

Oil and grease trap is also installed for washing equipment's effluents.



Photographs of Oil and Grease trap and ETP



Photograph ETP

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

Compliance: This is being strictly followed.

No truck are overloaded & All loaded trucks leaving mine premises are properly covered with full body tarpaulin which is checked before the consumer truck leaves the mine premises.



Photograph of truck covered with tarpaulin is shown below.

- viii. **Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EP Rules, 1986.**

Compliance: Agreed.

Monitoring of environmental quality on monthly basis is being done by MOEFCC & GPCB approved laboratory through establishment of adequate number and type of pollution monitoring and analysis equipments.

- ix. **Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed**

Compliance: This is being followed.

Adequate numbers of personal protective equipments are given to workers and sensitization and training programmes are conducted periodically.

Occupational health surveillance is taken up as per DGMS norms. Periodic health check up is done for workers every year. Our project is certified in ISO 9001, 14001 & OHSAS 18001.

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

Compliance: Complied.

Environment Management Cell with qualified personnel has been set up under direct control of General Manager (project), who is directly reporting to MD of the company.

**Environmental Clearance Compliance Report
(October 2024-March 2025)**

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

Compliance: Agreed.

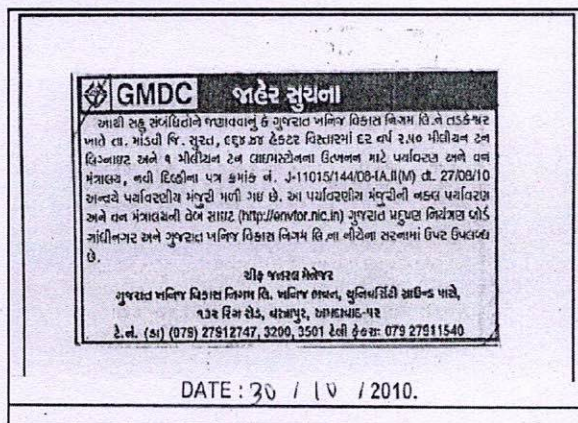
The funds earmarked for environmental protection measures are been used for the said purpose only. The budget is sanctioned year wise & its proper utilization is ensured for better environment protection. These investments separately accounted and communicated along with compliance report.

Expense of Rs. 13.05 lakhs were done during Oct 24- Mar 25 for environmental protection.

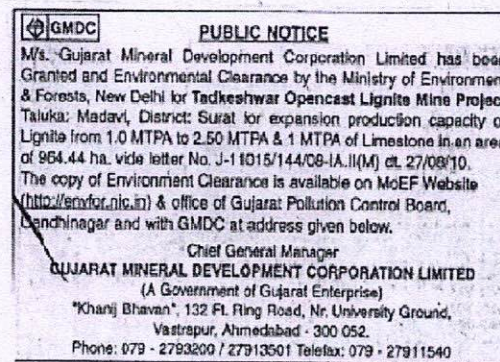
Categories	Expenses in Rs.
Plantation maintenance 1.Dump slope plantation by Social Forestry 2.Garden Maintenance	205300
ETP Operation Maintenance	901800
Monitoring of water, lignite Charges of calibration of lab instruments	249100
Total	13,56,200

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

Compliance: After receipt of Environmental Clearance letter the Corporation has advertised the same in :



Gujarat Mitra (Gujarati Newspaper) on 31.10.2010



Indian Express (English Newspaper) on 30.10.2010

- xiii. **A copy of the environmental clearance letter shall be marked to concerned panchayat/ Jilla parishad, Municipal Corporation or Urban Local Body and local NGO, if any from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website**

Compliance: The Environmental Clearance letter is uploaded on GMDC website: www.gmdcltd.com under Environment Section.

The Corporation has received active participation of people from Tadkeshwar, Ushker and Virpur Gram Panchayat as well as an NGO namely Paryavaran Mitra during public consultation process. Therefore, the copy of environmental clearance letter has sent to the following:

1. Sarpanch shree of villages Tadkeshwar, Ushker, Ramkund and Virpur
2. Mamlatdar of Mandvi Taluka
3. Paryavaran Mitra, Ahmedabad

- xiv. **A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and collector's office/ Tehsildars office for 30 days.**

Compliance: The copy of environmental clearance letter is sent to the following offices with a request to display the same:

1. Collectors Office, Surat
2. District Development Office
3. Regional Office of Gujarat Pollution Control Board, Surat

- xv. **The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC condition shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM 10, PM 2.5, SOx and NOx (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.**

Compliance: Complied.

The Environmental Clearance letter is uploaded on GMDC website. The Half yearly compliance of the EC conditions is also uploaded on GMDC website.

A display board showing the monitoring data of environmental quality parameters is already available at project Entrance and being updated regularly. The data is also available on the company's website along with EC compliance report.

- xvi. **The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to**

the respective Regional office of the MOEF, the respective Zonal offices of CPCB and the SPCB.

Compliance: This is being followed.

Compliances are submitted timely to the regulatory bodies.

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

Compliance: Complied.

GMDC is annually submitting environmental statement in the form of FORM V to GPCB, Gandhinagar.

The same will be uploaded on the company's website along with the status of compliance of EC conditions.

**Environmental Clearance Compliance Report
(October 2024-March 2025)**

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GUJARAT MINERAL DEVELOPMENT CORP. LTD.

(A GOVT. OF GUJARAT ENTERPRISE)

Corporate Identity No. (CIN)-L14100GJ1963SGC001206

Tadkeshwar Lignite Project

(An ISO 9001, 14001 & 45001 Certified Unit)

Po: Tadkeshwar, Tal: Mandvi, Dist: Surat, State: Gujarat-394170.

Email : gm.mines.tadkeshwar@gmdcltd.com Website : www.gmdcltd.com

GMDC/TAD/ 245 /2025-26

Date: 27/05/2025

To
Regional Officer,
Gujarat Pollution Control Board,
Plot No. 11-12/2,3, G.I.D.C. Pandesara,
Dist.: Surat.
Pin Code: 394221

Sub: Submission of annual return V for the financial year 2024-25 of Lignite Project Tadkeshwar, G.M.D.C. Ltd.

Ref: GPCB PCB ID: 20751

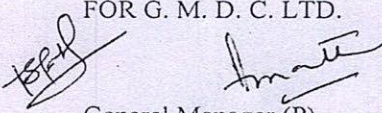
Dear Sir,

With reference to above mentioned subject, lignite Project Tadkeshwar having PCB ID : 20751, herewith submit its Annual Return Form -V for the financial year 2024-25.

This is for your kind information & perusal please.

Thanking you

FOR G. M. D. C. LTD.


General Manager (P)
Tadkeshwar Lignite Mine

Encl: Form-V Annual Return financial Year 2024-25

Cc to:

1. Environment Dept. - Corporate Office Ahmedabad
2. Env. Deptt. - Lignite Project Tadkeshwar

Environmental Clearance Compliance Report
(October 2024-March 2025)

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FORM NO. A

FORM V
(See rule 14)

From:
Gujarat Mineral Development Corp. Ltd.,
Lignite Project, Tadkeshwar,
Tal: Mandvi, Dist: Surat
Phone: (02623) 292145

To,
Gujarat Pollution Control Board,
Sector - 10A,
GANDHINAGAR-382 010.

ENVIRONMENTAL STATEMENT for the financial year ending March 2023

PART- A

- (i) Name and address of the owner/
occupier of industry operation or
process: Gujarat Mineral development Corp. Ltd.,
Lignite Project, Tadkeshwar,
Tal: Mandvi, Dist: Surat
Pin: 394170,
Phone: (02623) 292145
- (ii) Industry Category-
Primary - (STC Code) Primary - Mining
Secondary - (STOC Code):
- (iii) Production Capacity Units: 2.50 MTPA Lignite
- (iv) Year of Establishment: 2006
- (v) Date of last Environmental Statement submitted: 22.06.2024

Submission of Environmental statement is in accordance with the provision of Rule-14 of the Environment (Protection) Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993 G.S.R. 386 (E) in the Gazette of India-Extraordinary-Part-II Section-3 Subsection (i), No. 155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; read with the Notification dated 13-2-1993 G.S.R. 329 (E) of the Gazette of India -Extraordinary -Part-II Section-3 Subsection (i) 120 dated 13-3-1993

"Every person carrying on an industry, operation or process requiring Consent under Section -25 of the water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) or under Section -21 of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under Hazardous Wastes (Management and Handling) Rules, 1989 Published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the Thirtieth day of September every year, beginning 1993."

**Environmental Clearance Compliance Report
(October 2024-March 2025)**

2025

PART-B

Water and Raw Material Consumption:
(1) Water Consumption m³/day

Process	: NIL
Cooling (for Water sprinkling)	: 240.98 M ³ / day
Domestic	: 28.69 M ³ / day
Total	: 269.67 M ³ / day

Name of the Products	Process water consumption per unit of product output	
	During the previous financial year 2023-24	During the current financial year 2024-25
Raw Lignite	1381.33 litre/MT	141.81 litre/MT

(ii) Raw material consumption

*Name of the raw Material	Name of the product	Consumption of raw material per unit of output
Not applicable (This is a mining unit)	2.5 MTPA Raw Lignite	N.A.

*Industry may use codes if disclosing detail of raw material would violet contractual obligations, otherwise all industries have to name the raw materials used

PART -C

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

Pollutant	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharge (µg/m ³)				Percentage of variation from prescribed standards with reasons
a. Water	Sewage is treated in septic tank and discharged through soak pit system within the ML area.	NA				NA
b. Air	Since this is a Mining unit, there is no flue gas stack emissions, no process emission from any manufacturing/ ancillary process. However, fugitive dust emission occurs from movement of vehicles and mining process.	PM _{2.5}	PM ₁₀	SO _x	NO _x	No variation above prescribed limit
		60	100	80	80	
		33.81	67.11	13.35	20.19	

**PART-D
HAZARDOUS WASTES**

[As specified under Hazardous Wastes (Management and Handling) Rules, 1989]

Hazardous Wastes	Total Quantity	
	During the previous financial year 2023-24	During the current financial year 2024-25
a. From process (Used oil category No. 5.1/1)	Nil	Nil
b. From pollution control facilities	NA	NA

**PART-E
Solid Wastes**

	Total Quantity (Kg)	
	During the previous financial year 2023-24	During the current financial year 2024-25
a. From process:		
(i) Overburden Dump material	57.09 Lakh m ³	89.07 Lakh m ³
b. From pollution control facilities	NIL	NIL
c. (1) Quantity recycled or reutilized within the unit (2) Sold (3) Disposed	57.09 Lakh m ³ Backfilled in Decoaled area.	89.07 Lakh m ³ Backfilled in Decoaled area.

PART-F

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

The Hazardous waste generated is only "Burnt oil/used oil" covered in schedule 5.1/1 which is duly stored in closed containers and kept under closed shed with impervious flooring, thereby the used oil is auctioned and sold to GPCB registered re-processors/recyclers through MSTC.

The Solid waste is Overburden (OB) Dump which is continuously getting backfilled in the de-coaled quarry area, over which plantation is been carried out as per the EC conditions.

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

Pollution control measures includes continuous water sprinkling over haul roads/service roads in order to abate fugitive dust emissions due to vehicular movement and loading process. This also includes green belt development all along the periphery. No such significant impact is found over cost of production. However significant increase in plantation survival rate is found due to dust free atmosphere.

PART-H

Additional measures/ investments proposed for environmental protection including abatement of pollution/ prevention of pollution

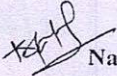
To protect environment and as a part of energy conservation drive, Office premises building at project has been powered through Solar energy via Roof-top Solar panels. Total unit generated from April 2024 to March 2025 is 17603 KWH.

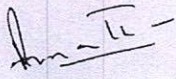
PART-I

Any particular for improving the quality of the environment

1. In order to conserve natural resources, the backfilled area is been reclaimed, planted with native species and is catered by water tanker. An area spanning approx. 185.55 Ha has been reclaimed and 107.02 Ha has been planted.

Date: 27.05.2025




Name: Shri Pulak Mathur
Designation: General Manager (P)
Address: Tadkeshwar
Post: Tadkeshwar
Taluka : Mandvi
Dist: Surat

3. Additional Conditions As Per New EC

- i. **PP to install 1 more continuous ambient air quality monitoring station at suitable locations preferably at village side with consultation of SPCB. The real time data so generated shall be uploaded on company website and linked it with website of CPCB/SPCB. In addition, data should also be displayed digitally at entry and exit of mine lease area for public display.**

Compliance: It is under tendering process.

- ii. **PP shall seek Certified Compliance Report from Ministry IRO for checking the status of compliance of EC conditions by May, 2022.**

Compliance: PP agrees to comply the same.

- iii. **PP shall develop 2 water harvesting pond near the villages of suitable area as suggested by Gram Panchayat within 1 year**

Compliance: Project has initiated the work by writing a letter to Sarpanch, Tadkeshwar for the location to develop the harvesting pond. Project is continuous in contact with Gram Panchayat for the said work. Work will be completed soon.

- iv. **PP to maintain the topped haul road properly to minimized the dust emission. PP to also develop pucca roads by seeking consent from the panchayat with widening of roads especially roads inter linking the villages within the study area of 10 km radius buffer zone.**

Compliance: Main village road of Tadkeshwar- is already black topped under PWD scheme. Black topped road is passing through the ML area. 2.5 KM C.C. Road construction work is completed on main haul road which will prevent dusting due to movement of heavy vehicles.

- v. **PP to plant 1,00,000 plants with three tier plantation along the haul Roads and identified areas with consent to the gram panchayat within one year and take care for rest of the 3 years for their proper growth.**

Compliance: Complied. Recently project has completed the 2 raw plantation with fencing around the Tadkeshwas Village pond. Project is committed to take care this plantation for next 3 years for their proper growth.

- vi. **PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the**

rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.

Compliance: Proposal prepared, submitted and under approval of top Management.

- vii. 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 preventive measures for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.

Compliance: Project has full time medical officer and its team for regular medical treatment/examination of workers engaged in project. Periodic medical checkup is carried out for all employee as per norms defined by DGMS.

- viii. Persons of nearby villages shall be given training on livelihood and skill development make them employable with its proper records.

Compliance: PP agrees to comply the same.

- ix. The illumination and sound at night 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.

Compliance: All highmask towers are placed in such a way to ensure no disturbance to villagers during nights. Noise levels are well within the prescribed limit for both day light and night hours (Please refer compliance status: General Condition V).

- x. PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms.

Compliance: PP agrees to comply the same.

PP should establish in house (at project site) environment laboratory for measurement of environment parameters with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall

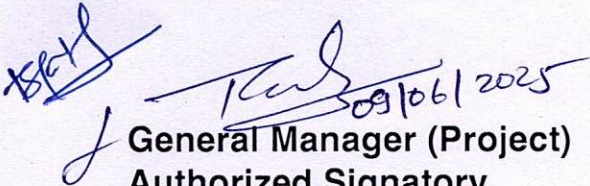
be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.

Compliance: Project has well established environment laboratory to monitor the in house air and water quality on regular basis. Project has sufficient manpower comprises of full time assistant Manager, Laboratory Chemist, Sampler and other supporting staff to carried out sampling and testing at in house laboratory.

- xi. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgment 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 MoEF&CC

Compliance: PP agrees to comply the same.

For GMDC Ltd,


General Manager (Project)
Authorized Signatory