

Half Yearly Compliance Report**2025****01 Jun(01 Oct - 31 Mar)****Acknowledgement**

Proposal Name	Surkha (N) Lignite Mine Project of M/s Gujarat Mineral Development Corporation Ltd.				
Name of Entity / Corporate Office	M/s Gujarat Mineral Development Corporation Ltd.				
Village(s)	N/A				
District	BHAVNAGAR				
Proposal No.	IA/GJ/CMIN/8016/2006	Category	Coal Mining		
Plot / Survey / Khasra No.	N/A	Sub-District	N/A		
State	GUJARAT	Entity's PAN	*****7987P		
MoEF File No.	J-11015/234/2006-IA.II(M)	Entity name as per PAN	GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED		

Compliance Reporting Details

Reporting Year	2025
Remarks (if any)	Half Yearly Environmental Compliance (October-2024 to March-2025)
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office M/s Gujarat Mineral Development Corporation Ltd.

	Project Area as per EC Granted	Actual Project Area in Possession
Private	2941.68	1088.31
Revenue Land	0	0
Forest	0	0
Others	730.32	730.32
Total	3672	1818.63

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Lignite	Million Tons per Annum (MTPA)	31/03/2031	5	2.01	5

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	PP shall obtain CTE/CTO from State Pollution Control Board for 5 MTPA production capacities for Lignite mine (as well CTO for Pyrite plant with capacity of 3 MTPA).
<p>PPs Submission: Complied CTE has been granted for 5 MTPA Lignite production capacity vide CTE no. CTE-51982, dated-05.02.2022 valid till 12.05.2031. Also, CCA has been granted vide CCA no. GPCB/CCA-BHV-198(3)/ID-27017/829949, dated-23.12.2024 valid till 31.03.2028.</p>		Date: 17/06/2025
2	Risk Mitigation and Disaster Management	PP should complete the construction of retaining wall around the OB bump before March 2024.
<p>PPs Submission: Being Complied Designing and construction of Retaining wall along the Mine dump is under tendering process and the construction will begin as soon as the agency is finalized.</p>		Date: 17/06/2025
3	Risk Mitigation and Disaster Management	PP should not divert any stream/nallah passing through the ML area before 2039. Adequate streams protection measures to be taken by constructing embankment all along the river and safety zone to be provided from OB dump. No untreated effluent/mine water shall be entered into the streams. PP shall ensure the natural flow is not affected with adequate monitoring quantity and quality at u/s and d/s of streams.
<p>PPs Submission: Complied A Safe distance of a minimum 60m is maintained between seasonal nallahs and working mine within lease boundary. To prevent surface run-off water entering the mines Garland drains are constructed around the periphery mining pit and at the toe of all the dumps along with a Siltation Pond to arrest silt and sediments flows from soil, OB and mineral dumps, with adequate capacity. Utmost care is taken so that no untreated effluent/mine water is released into the streams. The mine water is collected from the mine pit and treated in Primary Effluent Treatment Plant (ETP) and then through RO plants. Later on, treated mine pit water is utilized for Plantation and domestic purpose.</p>		Date: 17/06/2025
4	Statutory compliance	PP shall comply the partial/non-compliance EC conditions highlighted by Ministry's Regional Office and submit its report within six months to IRO.
<p>PPs Submission: Complied EC compliance status is being submitted to MoEFCC every six months and last half yearly compliance (Period- April 24 to Sept 24) submitted vide compliance no. EC/M/COMPLIANCE/72621375/2024 on dated 23.12.2024.</p>		Date: 17/06/2025
5	MISCELLANEOUS	PP shall use nearest Railway siding for maximum coal transportation and in future coal transportation through road shall be completely stopped. PP shall prevent transportation through forest area and other sensitive locations.
<p>PPs Submission: Agreed to Comply The possibility may be explored in future as per the demand. Presently, Lignite is transported through 19T-34T trucks covered with Tarpaulin. Moreover, No Forest area or Ecological sensitive zones or Sensitive zones exists within 10 km radius of project.</p>		Date: 17/06/2025
6	AIR QUALITY MONITORING AND	PP shall install mechanized equipment as much as possible within the mine in order to reduce the dust emission.

	PRESERVATION	
<p>PPs Submission: Complied Continuous water tankers with pressurized sprinkling arrangement are deployed at round the clock to control the fugitive emissions from all the potential sources including haul road and transfer points. Also, Fog canon of 60 meters range is installed for control of dust emission in mines area.</p>		Date: 17/06/2025
7	Statutory compliance	PP shall obtain No Objection Certificate from Central Ground Water Authority for extraction of ground water.
<p>PPs Submission: Complied NOC for ground water extraction has been obtained from CGWA vide NOC No CGWA/NOC/MIN/ORIG/2021/13519 dated- 27/10/2021. Application for renewal is under consideration at CGWA vide Application no. 21-4/2674/GJ/MIN/2017, dated-25/10/2023.</p>		Date: 17/06/2025
8	WATER QUALITY MONITORING AND PRESERVATION	PP shall monitor regularly water levels in open dug wells located in village and by establishing Piezometer to ascertain the impact of mining over ground water table and to plan mitigative measures to recharge the area.
<p>PPs Submission: Complied Groundwater level and quality is being monitored regularly of open dug wells within the mine and surrounding villages. Piezometer for monitoring of ground water level is installed at satbeno dugwell. Further, detailed quality analysis of ground water is being done through Govt. Approved/NABL Laboratory periodically. Rainwater harvesting structures have been constructed in Mines area with 1.67 Lakh M3 capacity for Ground water recharging. Also, around 2.02 Lakh M3 of deepening, widening works have been done in existing check dams of Core Zone villages area to increase the water recharge capacity.</p>		Date: 17/06/2025
9	PUBLIC HEARING	PP shall implement the activities-wise proposed budget for Public Hearing Budget (as Annexure II) and Capital cost of Rs. 319.05 Lakh (as EMP cost mentioned in the Annexure II) in time bound manner same has been mentioned in above para 5.1.3 of the published minutes. The details of annual expenditure incurred shall be part of report to be submitted to IRO, MoEFCC. PP needs to include the audited figures against the expenditure and activities to be monitored by through dedicated monitoring mechanism. The maintenance of all activities shall be covered through recurring cost of Public Hearing and continued as a part of CSR budget.
<p>PPs Submission: Complied Implementation of the activities-wise proposed budget for Public Hearing Budget and Capital cost in time bound manner is done in phased manner.</p>		Date: 17/06/2025
10	WATER QUALITY MONITORING AND PRESERVATION	PP shall develop 6 nos. of rainwater harvesting pond (100 m, width will be 10 m and the depth will be 3 m) as proposed by PP near the villages of stated area in consultation with Gram Panchayat within 1 year. Also, Indicator aquatic species shall be planted in this water bodies to see the environmental quality. PP shall own water bodies/pond currently present in project area, maintain and regularly monitor the quality for its long-term protection.
<p>PPs Submission: Complied GMDC has made artificial ground water recharge structures for GW recharging in Mines. Further, to increase the recharge capacity of the area, Deepening and widening of existing Ponds/Check dams in core Zone villages, Thordi, Bhumbhli, Malpar, Rampar, Tagadi, Bhuteswer have been done through District/Village Panchayat under the CSR activity. Around 2.02 Lakh M3 of deepening works with spent of Rs. 156.78 Lacs has been incurred till date under CSR for Water conservation and Water Harvesting.</p>		Date: 17/06/2025

11	WATER QUALITY MONITORING AND PRESERVATION	PP shall implement Water distribution system in near villages. A proper water pipeline distribution network shall be devised to meet the demands of farmers related to irrigation and recharging of ponds, wherever required. The water treatment plant to meet the requirement with the start of production.
PPs Submission: Complied Laying of pipelines for effective and efficient distribution of water for irrigation for agricultural purposes in nearby villages has been undertaken as a part of CSR.		Date: 17/06/2025
12	PUBLIC HEARING	PP shall deposit the approved amount as proposed for wildlife conservation plan to the State Govt. Forest and Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.
PPs Submission: Being Complied Funds earmarked under Peacock conservation plan will be deposited to State Govt. Forest and Environment Dept. after obtaining due approval of the Wildlife Board.		Date: 17/06/2025
13	Statutory compliance	PP shall conduct third party audit of compliance of EC condition at an interval six months and its report shall be submitted to IRO, MoEFCC.
PPs Submission: Being Complied Third party audit of compliance of EC condition is consideration and report will be submitted in upcoming compliances.		Date: 17/06/2025
14	AIR QUALITY MONITORING AND PRESERVATION	Sufficient nos. of fog cannons of at least 40 mtrs throw shall be installed at coal storage yard, in nearby villages and along the transportation route. Main haul road in the mine shall be provided with permanent water sprinklers, and other roads shall be regularly wetted with water tankers fitted with sprinklers. Also PP shall install Mist Cannon Dust suppression system (Distance 80-100 mtrs.) at Coal Stock yard to suppress the dust particles.
PPs Submission: Complied Fog canon (60-meter throw, mobile type) is installed for control of dust emission in mines area. Further, continuous water tankers with pressurized sprinkling arrangement are deployed at round the clock to control the fugitive emissions from all the potential sources including haul road and transfer points.		Date: 17/06/2025
15	MISCELLANEOUS	PP shall transport the coal by trucks of fleet size 35-40 tons. (payload) and no village road or sensitive location shall be used for transportation of coal.
PPs Submission: Agreed to Comply Agreed to comply.		Date: 17/06/2025
16	GREENBELT	PP shall maintain at lease 10 mtrs width tree plantation of broad leaves and wind break/green-shield of about 10 mtrs height along the boundary of coal storage yard.
PPs Submission: Partially Complied There is no Coal storage yard at the project. Lignite is directly dispatched from the mine through face loading. Moreover, plantation has been carried out along the Mine lease boundary, roads and vacant/undisturbed areas by planting native species in consultation with local RFO/Forest dept.		Date: 17/06/2025
17	GREENBELT	PP to plant additional 1,00,000 plants with three tier plantations along with transportation route, if not completed, and identified areas

		with consent to the gram panchayat within two years and plan for remaining within 2 years for their proper grown in additional already committed to plant to plantation in 10 ha of project area.
<p>PPs Submission: Complied Plantation with 3 Tier plantation system is under progress at transportation route, peripheral area, reclaimed OB dump and surrounding village etc. with help of gram panchayat. Also, planned to 10 Ha. of plantation in project area. A Plantation area of around 92.50 Ha has been covered till date of land area and reclaimed dumps.</p>		<p>Date: 17/06/2025</p>
18	AIR QUALITY MONITORING AND PRESERVATION	PP shall implement air pollution mitigation measures near the village, located at coal storage yard within mine lease area.
<p>PPs Submission: Complied Five ambient air quality monitoring locations have established in core zone as well as in buffer zone for PM 10, PM 2.5, SO2 and NOX monitoring based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with SPCB. Following control measures adopted for mitigation of air pollution: o The vehicles are covered with tarpaulins. o Construction of CC road. o Continuous water spraying on haul roads, service roads and overburden dumps helps in reducing considerable dust pollution. o Proper and regular maintenance of mining equipment is done. o No drilling and blasting use. Mechanized opencast mining method using for Lignite mining. o Enhancement of greenbelt and Plantation area.</p>		<p>Date: 17/06/2025</p>
19	Risk Mitigation and Disaster Management	PP shall follow the recommendation of subsidence study and monitor the degree of subsidence regularly and shall be submitted to IRO.
<p>PPs Submission: Complied Scientific study on Geotechnical Aspect and Slope stability of Surkha (North), Lignite Mine has been done by CSIR - Central Institute of Mining and Fuel Research, Dhanbad.</p>		<p>Date: 17/06/2025</p>
20	WATER QUALITY MONITORING AND PRESERVATION	PP shall implement Effluent Treatment plant for wastewater generated from workshop and Sewage Treatment Plan for its colony. No untreated water shall be discharged from mine boundaries to ponds/nallah/river.
<p>PPs Submission: Complied No untreated effluent is disposed. The mine water is collected from the mine pit and treated in Effluent Treatment Plant (ETP) followed by RO plants. Treated water is utilized for Plantation and domestic purpose. Workshop wastewater is separately collected into the collection tank and reuse after oil and grease separation.</p>		<p>Date: 17/06/2025</p>
21	ENERGY PRESERVATION MEASURES	PP shall deploy at least 20 percentage of overall fleet of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc.
<p>PPs Submission: Agreed to Comply Agree to comply.</p>		<p>Date: 17/06/2025</p>
22	MISCELLANEOUS	PP to provide bio toilets to the village located within the study areas within 1 year from the grant of this EC.
<p>PPs Submission: Complied GMDC has constructed toilet block (115 nos.) to surrounding village areas under CSR Activity.</p>		<p>Date: 17/06/2025</p>
23	MISCELLANEOUS	Person of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.

<p>PPs Submission: Complied GMDC has launched Samarthya Employment Oriented Skill Training Programme under its CSR activity with the objective of providing employment to the youth of the villages surrounding the project. Three different types of training courses like Consignment Booking Assistant, CNC Operator Turning and Electrical Technician have been started.</p>		<p>Date: 17/06/2025</p>
24	MISCELLANEOUS	PP shall pay to formers of agricultural land if there any loss due to pollution found by concerned District Commissioner as per extent rules or norms.
<p>PPs Submission: Complied An amount of Rs. 6.14 Lakhs has been disbursed to the owner of affected land during the FY. 2023-24.</p>		<p>Date: 17/06/2025</p>
25	ENERGY PRESERVATION MEASURES	PP shall reduce the carbon footprint after sequestration of CO2, IRO will review the progress of CO2 sequestration. The process of sequestration of CO2 will include the planting trees, by Developing carbon capture and storage (CCS) technologies and implementation of renewable energy. Further, PP shall carry out enough plantation to ensure carbon sequestration lost due to deforestation and other fossil fuel-based activities.
<p>PPs Submission: Complied GMDC always strives to minimize the impact on environment, which includes proactive efforts to limit greenhouse emissions, using renewable sources and offsetting the effects of mining in the best ways possible. Thus, 20 KW Rooftop Solar Panels was installed at Admin building of project site Creating Carbon Sinks with more than 92 Ha Plantation area.</p>		<p>Date: 17/06/2025</p>
26	AIR QUALITY MONITORING AND PRESERVATION	PP to maintain the transportation road properly to minimize the dust emission. PP to also develop pucca/concrete 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.
<p>PPs Submission: Complied Control of fugitive emissions from all the potential sources including haul road and transfer points is being done by installation of Fog canon, Continuous water tankers with pressurized sprinkling arrangement, Construction of CC road, Enhancement of greenbelt and Tarpaulins covered truck etc. Also, around Rs. 56 Lacs has been incurred for Road works till date in core Zone villages under CSR activity. Further, pucca/concrete roads will be developed as per the requirement of gram panchayat of surrounding village.</p>		<p>Date: 17/06/2025</p>
27	WATER QUALITY MONITORING AND PRESERVATION	PP to monitor the water quality of the ground water and surface water body located within the core zone and 5 km radius from the periphery of the mine boundary as per procedure laid down by CPCB.
<p>PPs Submission: Complied Groundwater level and quality is being monitored regularly of open dug wells within the mine and surrounding villages. Further, detailed quality analysis of ground water is being done through Govt. Approved/NABL Laboratory periodically and submitted to MoEFCC along with Six monthly EC Compliances.</p>		<p>Date: 17/06/2025</p>
28	AIR QUALITY MONITORING AND PRESERVATION	PP to install 1 continuous ambient air quality monitoring stations at suitable locations preferably 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 gate of mine lease area for public display.
<p>PPs Submission: Being Complied</p>		<p>Date:</p>

Five ambient air quality monitoring location have established in core zone as well as in buffer zone for PM 10, PM 2.5, SO2 and NOX monitoring based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with SPCB. Further, installation of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) is under tendering process and the installation work will begin as soon as the agency is finalized.		17/06/2025
29	LAND RECLAMATION	PP must convert OB dump area into grassland area for grazing purpose of local animals.
PPs Submission: Complied Gauchar (Grazing) land has been developed along the toe of W3 Dump. About 2.2 Ha of Land near Tagadi village for local animal.		Date: 17/06/2025
30	Human Health Environment	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 anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.
PPs Submission: Complied All employees of GMDC, Bhavnagar have undergone medical examination as per prescribed standard. Periodical Medical Examination (PME) of all employees covering occupational diseases and hearing impairment is being done as per Rule 29(B) of Mines Rule 1955. The medical examination includes General Physical examination, Chest X-ray, Spirometry, Audiometry, ECG, Vision Screening, Urine Analysis, Blood Sugar, Complete Lipid Profile, Hematological Test and Renal Function Test. As per this rule PME of every employee in mine of age 45 years and above shall be done once in 3 years and of employees below 45 years once in 5 years. According to this, PME of 267 persons was done till date in the year FY 2024-25, no occupational disease has been reported.		Date: 17/06/2025
31	MISCELLANEOUS	PP should establish in house (at project site) environment laboratory for measurement of environment parameter 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.
PPs Submission: Complied Environmental laboratory has been established at project. Environment Management Cell is already established in Project and Assistant Manager with qualification of M.E. (Environment Management) reports to General Manager (Project). At Corporate level also, Environmental Cell is working under control of General Manager (Environment) who is directly reporting to Sr. General Manager (Tech IV) and Managing Director (IAS) of the organization.		Date: 17/06/2025
32	MINING PLAN	The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and IRO.
PPs Submission: Complied Status Progressive Mine Closure Activity as on March-25 is attached herewith.		Date: 17/06/2025
33	ENERGY PRESERVATION	PP to install solar lights along the road used for transportation of

	MEASURES	minerals to avoid the accidents at night and 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.
PPs Submission: Complied Sufficient lighting has been provided with LED light in mines area. Also, installation of solar light in rural area will be done as per the requirement of gram panchayat of surrounding village.		Date: 17/06/2025
General Conditions		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC website where it is displayed.
PPs Submission: Complied The environmental clearance was published in two newspapers. In English, The Indian Express on dated 13.06.2024 and in Local Gujarati language newspaper, Gujarat Samachar on dated 13.06.2024.		Date: 17/06/2025
2	MISCELLANEOUS	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 must display the same for 30 days from the date of receipt.
PPs Submission: Complied The copy of environmental clearance was submitted to concern Local bodies on dated 06.07.2024.		Date: 17/06/2025
3	MISCELLANEOUS	The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (In case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringement/deviation/violation of the environmental/ forest wildlife norms / conditions.
PPs Submission: Complied GMDC has formulated a well-defined environmental management policy in the form of QEHS (Quality, environment, health, and safety policy) and boasts ISO, 9001 14001, 45001 certifications. This policy plays an instrumental role in charting the way forward towards reduction of emissions from the operations.		Date: 17/06/2025
4	MISCELLANEOUS	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progresses of implementation of action plan shall be reported to the Ministry/Regional office along with the Six-Monthly compliance report.
PPs Submission: Complied GMDC is regularly and sincerely implementing Environmental protection measures and allocate sufficient funds. Environment Management Cell is already established at Project as well as corporate		Date: 17/06/2025

level for implementing Environment Management Plan. Expenditure for environmental protection measures is submitted in Conditions no. xi.		
5	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of environmental (Protection) Act 1986.
PPs Submission: Agreed to Comply Agree to comply.		Date: 17/06/2025
6	Statutory compliance	The regional office of this MoEFCC 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.
PPs Submission: Agreed to Comply Agree to comply.		Date: 17/06/2025
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		
<p>Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		