


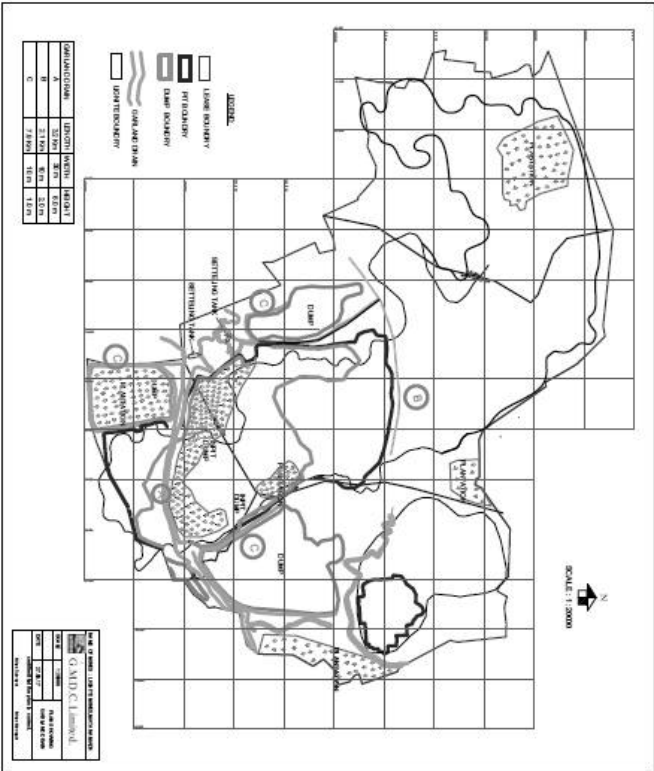
Environmental Clearance Compliance Report (April 2019-September 2019)






Mata no Madh opencast lignite mine project (capacity expansion from 0.6 MTPA to 2.4 MTPA) vide MoEF Environment Clearance Letter No. J- 11015/143/08-IA. II(M) dt. 31st August, 2010.






Specific Conditions:

Sr. No.	Conditions of EC	Compliance status
i.	The project proponent shall obtain the prior approval of the "Standing committee on Wildlife", if required before expansion of mining operations.	<p>As per letter no. F.No.6-108/2011 WL Dated 18 Feb 2014. It is stated that the area is out the Eco sensitive zone.</p> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">Government of India Ministry of Environment and Forests (Wildlife Division)</p> <p style="text-align: right;">Paryavaran Bhawan CGO Complex, Lodhi Road New Delhi-110003</p> <p>F.No.6-108/2011 WL Dated: 18 February 2014</p> <p>The Chief Wildlife Warden, Government of Gujarat, Gandhinagar-382 010.</p> <p>Sub: Wildlife Clearance of Mata No Madh Lignite Project of GMDC Ltd. pending with Honorable Standing Committee of National Board for Wildlife.</p> <p>Sir,</p> <p>Reference is invited to the letter dated 25th June 2013 received from the Chief General Manager, Gujarat Mineral Development Corporation Ltd regarding wildlife clearance of the proposal for expansion of capacity for lignite mining project at Mata No Madh, of GMDC, Taluka: Lakhpat, Distt. Kutch located at a shortest distance of 3.78 kms from the outermost boundary of Narayan Sarovar Wildlife Sanctuary, Gujarat.</p> <p>In this context, it is mentioned that the above mentioned proposal was listed in the agenda for the 28th Meeting of the Standing Committee of NBWL held on 20th March 2013. The matter was however, not considered as the Standing Committee of NBWL were of the view that proposals that are outside the notified Eco-Sensitive Zone may not be referred to Standing Committee of NBWL as it does not have any jurisdiction to consider such proposal.</p> <p>In the instant case, the project site is beyond the notified Eco-Sensitive Zone around Narayan Sarovar Sanctuary. As such the proposal is returned herewith.</p> <p style="text-align: right;">Yours faithfully  (Dr Vivek Saxena) Deputy Inspector General of Forests (WL) Telefax: 011-24362065</p> <p>Copy to: The Chief General Manager, GMDC Ltd, Khanij Bhawan, 6th Floor, "A" Tower, 132 ft Ring Road, Near University Ground, Vastrapur, Ahmedabad-380 052.</p> </div>
ii.	No additional land shall be acquired for the present project.	Complied.

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iii.	Area of 587.0256 ha. Under exploration and 272.74 ha which includes unutilized area within the ML shall be developed as gauchar land using native grass species. Peripheral plantation being developed along the mine boundary near the Narayan Sarovar Wildlife Sanctuary shall be developed with suitable plant species which form part of the natural of the area.	<p>Compliance is under progress in phased manner.</p> <p>Area of 85 Ha is already been developed as peripheral plantation with native plant species. The plantation work is continuously in phased manner departmentally as well as through Gujarat Forest Department. Till date 105 ha plantation is done by forest agency and 204.68 ha area has been planted by GMDC totaling to 309.68 ha plantation in lease area till date.</p> <p style="text-align: center;">Table 1 YEAR WISE PLANTATION DETAILS.</p> <table border="1" data-bbox="789 732 1476 1885"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">Forest</th> <th colspan="2">departmental</th> <th colspan="2">total (dept +forest)</th> </tr> <tr> <th>Area (ha)</th> <th>Plantation (No.s)</th> <th>Area (ha)</th> <th>Plantation (No.s)</th> <th>Area (ha)</th> <th>Plantation (No.s)</th> </tr> </thead> <tbody> <tr><td>2003-04</td><td>--</td><td>--</td><td>15</td><td>16,000</td><td>15</td><td>16000</td></tr> <tr><td>2004-05</td><td>--</td><td>--</td><td>12</td><td>12,000</td><td>12</td><td>12000</td></tr> <tr><td>2005-06</td><td>5</td><td>10,000</td><td>0.5</td><td>2000</td><td>5.5</td><td>12000</td></tr> <tr><td>2006-07</td><td>15</td><td>30000</td><td>1</td><td>4000</td><td>16</td><td>34000</td></tr> <tr><td>2007-08</td><td>10</td><td>20000</td><td>1.5</td><td>6000</td><td>11.5</td><td>26000</td></tr> <tr><td>2008-09</td><td>50</td><td>64000</td><td>2</td><td>8000</td><td>52</td><td>72000</td></tr> <tr><td>2009-10</td><td>--</td><td>--</td><td>3</td><td>10000</td><td>3</td><td>10000</td></tr> <tr><td>2010-11</td><td>10</td><td>12000</td><td>25</td><td>79425</td><td>35</td><td>91425</td></tr> <tr><td>2011-12</td><td>15</td><td>20250</td><td>20</td><td>35358</td><td>35</td><td>55680</td></tr> <tr><td>2012-13</td><td>--</td><td>--</td><td>20</td><td>40750</td><td>20</td><td>40750</td></tr> <tr><td>2013-14</td><td>--</td><td>--</td><td>20.5</td><td>44840</td><td>20.5</td><td>44840</td></tr> <tr><td>2014-15</td><td>--</td><td>--</td><td>20.38</td><td>65737</td><td>20.38</td><td>65737</td></tr> <tr><td>2015-16</td><td>--</td><td>--</td><td>21.79</td><td>54465</td><td>21.79</td><td>54465</td></tr> <tr><td>2016-17</td><td>--</td><td>--</td><td>13.12</td><td>32808</td><td>13.12</td><td>32808</td></tr> <tr><td>2017-</td><td>--</td><td>--</td><td>7.07</td><td>17683</td><td>7.07</td><td>17683</td></tr> </tbody> </table>	Year	Forest		departmental		total (dept +forest)		Area (ha)	Plantation (No.s)	Area (ha)	Plantation (No.s)	Area (ha)	Plantation (No.s)	2003-04	--	--	15	16,000	15	16000	2004-05	--	--	12	12,000	12	12000	2005-06	5	10,000	0.5	2000	5.5	12000	2006-07	15	30000	1	4000	16	34000	2007-08	10	20000	1.5	6000	11.5	26000	2008-09	50	64000	2	8000	52	72000	2009-10	--	--	3	10000	3	10000	2010-11	10	12000	25	79425	35	91425	2011-12	15	20250	20	35358	35	55680	2012-13	--	--	20	40750	20	40750	2013-14	--	--	20.5	44840	20.5	44840	2014-15	--	--	20.38	65737	20.38	65737	2015-16	--	--	21.79	54465	21.79	54465	2016-17	--	--	13.12	32808	13.12	32808	2017-	--	--	7.07	17683	7.07	17683
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iv.	<p>A mine drainage plan with a surface drainage design of the mine resulting from surface run offs and diversion of seasonal nallah found within the active mining area which form the main drain draining into the Narayan Sarovar Wildlife Sanctuary and for the mine discharge water based on a peak rainfall data shall be prepared and implemented. The south side diverted nallah shall be realigned to its original course after the 6th year of mine operation.</p>	<p>The nallah diversion is done and shall be realigned to its original course as per the time frame stipulated by MoEF.</p> <p>Mine drainage plan as mentioned is hereby attached.</p> 																																			

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v.	<p>Mine discharge water from the ML joining the drain which serves as the catchment of the Narayan Sarovar Wildlife Sanctuary shall be treated to prescribed standards before discharge and records thereof maintained and furnished as part of the compliance report to MoEF, RO at Bhopal.</p>	<p>No Mine discharge is done outside the ML.</p> <p>The mine seepage from active mine pit is being collected in decoaled pit and used for dust suppression. Analysis report of mine pit water is enclosed.</p> <div data-bbox="797 562 1481 1516">  <p>Head Office & Lab Doyal Estate, National Highway No. 8, Opp. APMC Market Gate-1, Jabalpur, District Ahmedabad-382406, Gujarat, INDIA. ☎ +91 70690 72001 📧 info@gogreenmechanisms.com 🌐 www.gogreenmechanisms.com</p> <h3 style="text-align: center;">CERTIFICATE OF ANALYSIS</h3> <p>Report Number: GGP/1486/H-03 Reporting Date: 25.03.2019</p> <p>Gujarat Mineral Development Corp. Ltd. Lignite Project-Mata No Madh, Roovar Tal-Lakhwar, Dist-Rutti-370625</p> <p>Kind Attention : Project, Pit Contact No : 9609954768 Mail ID : pmata@gmddcltd.co.in</p> <p>SAMPLE DETAILS</p> <table border="0"> <tr> <td>Lab ID</td> <td>: Lab/1486/H-03</td> <td>Sampling Date</td> <td>: 14.03.2019</td> </tr> <tr> <td>Sample Drawn By</td> <td>: Kapil Jadhav</td> <td>Sample Receipt Date</td> <td>: 15.03.2019</td> </tr> <tr> <td>Sample Type</td> <td>: Wastewater</td> <td>Analysis Start Date</td> <td>: 16.03.2019</td> </tr> <tr> <td>Sample Description</td> <td>: Remedial-03</td> <td>Analysis End Date</td> <td>: 24.03.2019</td> </tr> <tr> <td>Sample Quantity</td> <td>: 2L</td> <td>Sampling Method</td> <td>: IS 3025/MPHA</td> </tr> <tr> <td>Cond. - Sample Receipt</td> <td>: Satisfactory</td> <td>Packing</td> <td>: Sealed</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sr. No.</th> <th>Parameters</th> <th>Results</th> <th>Unit</th> <th>Test Method</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH at 25 °C</td> <td>7.42</td> <td>-</td> <td>IS 3025 (Pt. 11); RA 2006</td> <td>5.5 to 9.0</td> </tr> <tr> <td>2</td> <td>Temperature °C</td> <td>27.0</td> <td>°C</td> <td>APHA 23rd Edn 2017 2550 B</td> <td>Should not exceed 5°C above the receiving water temperature</td> </tr> <tr> <td>3</td> <td>Color</td> <td>20.0</td> <td>CU</td> <td>APHA 23rd Edn 2017 2120 B</td> <td>NS</td> </tr> <tr> <td>4</td> <td>Total Suspended Solids</td> <td>39.0</td> <td>mg/L</td> <td>APHA 23rd Edn 2017 2540 D</td> <td>100</td> </tr> <tr> <td>5</td> <td>Total Dissolved Solids</td> <td>1852.0</td> <td>mg/L</td> <td>APHA 23rd Edn 2017 2540 C</td> <td>NS</td> </tr> <tr> <td>6</td> <td>Chloride</td> <td>300.6</td> <td>mg/L</td> <td>IS 3025 (Pt. 32); RA 2007</td> <td>NS</td> </tr> <tr> <td>7</td> <td>Sulphate as SO₄²⁻</td> <td>270.9</td> <td>mg/L</td> <td>APHA 23rd Edn 2017 4500 SO₄²⁻ E</td> <td>NS</td> </tr> <tr> <td>8</td> <td>Sulphide</td> <td>1.0</td> <td>mg/L</td> <td>APHA 23rd Edn 2017 4500 S²⁻ F</td> <td>NS</td> </tr> <tr> <td>9</td> <td>Oil & Grease</td> <td>4.1</td> <td>mg/L</td> <td>IS 3025 (Pt. 39); 1991</td> <td>10</td> </tr> <tr> <td>10</td> <td>Fluoride as F</td> <td>1.3</td> <td>mg/L</td> <td>APHA 23rd Edn 2017 4500 F D</td> <td>2</td> </tr> <tr> <td>11</td> <td>Hexavalent Chromium as Cr^{VI}</td> <td>BQL(QL=0.1)</td> <td>mg/L</td> <td>APHA 23rd Edn 2017 3300 Cr 6</td> <td>0.1</td> </tr> <tr> <td>12</td> <td>Dissolved Oxygen</td> <td>7.6</td> <td>mg/L</td> <td>IS 3025 (Pt. 30); 1989</td> <td>NS</td> </tr> </tbody> </table> <p><small>* Indicates these parameters are not covered under NABL Scope NS- Not Specified, BQL-Below Quantification Limit, QL- Quantification Limit</small></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Analyzed By Aditi Thakur, Lab Chemist </div> <div style="text-align: center;">  Authorized Signatory P. B. Patel, Lab Manager </div> </div> <p>Terms & Conditions : This test report shall not be reproduced except in full, without written approval from Go Green Mechanisms Pvt. Ltd. and test results furnished herein this report to the sample received. Report can not be used as an evidence anywhere without prior permission. Sample will be retained (wherever applicable) only for 15 days from the date of sampling. Total liability of our institution is limited to the invoiced amount. Endorsement of products is neither inferred nor implied. Any dispute arising out of this test report is subject to Ahmedabad Jurisdiction.</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div data-bbox="828 1491 1331 1522"> <p>Recognized by GPCB as "Environment Auditors-Schedule II" Accredited by NABL (Certificate No. TC-7073), MOEF&CC, RSPCB, OHSAS 18001 & ISO 9001 Certified Company</p> </div> <div data-bbox="1234 1407 1331 1501">  </div> <div data-bbox="1380 1449 1469 1522">  </div> </div> </div>	Lab ID	: Lab/1486/H-03	Sampling Date	: 14.03.2019	Sample Drawn By	: Kapil Jadhav	Sample Receipt Date	: 15.03.2019	Sample Type	: Wastewater	Analysis Start Date	: 16.03.2019	Sample Description	: Remedial-03	Analysis End Date	: 24.03.2019	Sample Quantity	: 2L	Sampling Method	: IS 3025/MPHA	Cond. - Sample Receipt	: Satisfactory	Packing	: Sealed	Sr. No.	Parameters	Results	Unit	Test Method	Remarks	1	pH at 25 °C	7.42	-	IS 3025 (Pt. 11); RA 2006	5.5 to 9.0	2	Temperature °C	27.0	°C	APHA 23rd Edn 2017 2550 B	Should not exceed 5°C above the receiving water temperature	3	Color	20.0	CU	APHA 23rd Edn 2017 2120 B	NS	4	Total Suspended Solids	39.0	mg/L	APHA 23rd Edn 2017 2540 D	100	5	Total Dissolved Solids	1852.0	mg/L	APHA 23rd Edn 2017 2540 C	NS	6	Chloride	300.6	mg/L	IS 3025 (Pt. 32); RA 2007	NS	7	Sulphate as SO ₄ ²⁻	270.9	mg/L	APHA 23rd Edn 2017 4500 SO ₄ ²⁻ E	NS	8	Sulphide	1.0	mg/L	APHA 23rd Edn 2017 4500 S ²⁻ F	NS	9	Oil & Grease	4.1	mg/L	IS 3025 (Pt. 39); 1991	10	10	Fluoride as F	1.3	mg/L	APHA 23rd Edn 2017 4500 F D	2	11	Hexavalent Chromium as Cr ^{VI}	BQL(QL=0.1)	mg/L	APHA 23rd Edn 2017 3300 Cr 6	0.1	12	Dissolved Oxygen	7.6	mg/L	IS 3025 (Pt. 30); 1989	NS
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		 <p>Head Office & Lab Doyal Estate, National Highway No. 8, Opp. APMC Market Gate-1, Jetpur, District Ahmedabad-382426, Gujarat, INDIA +91-79580 72201 lab@greenmechanisms.com www.gogreenmechanisms.com</p> <p align="center">CERTIFICATE OF ANALYSIS</p> <p>Report Number: GDM/1489/H-03 Reporting Date: 25.03.2019</p> <p>Gujarat Mineral Development Corp. Ltd. Lignite Project Mata No Madh, Rajapur Taru, Taluka, Dist-5452-370625</p> <p>Kind Attention : Mr. J. K. Patel Contact No. : 9908954768 Mail ID : jkpatel@gmdcltd.co.in</p> <p>SAMPLE DETAILS</p> <table border="0"> <tr> <td>Lab ID</td> <td>: Lab/1489/H-03</td> <td>Sampling Date</td> <td>: 14.03.2019</td> </tr> <tr> <td>Sample Drawn By</td> <td>: Kapil Jadhav</td> <td>Sample Receipt Date</td> <td>: 15.03.2019</td> </tr> <tr> <td>Sample Type</td> <td>: Wastewater</td> <td>Analysis Start Date</td> <td>: 16.03.2019</td> </tr> <tr> <td>Sample Description</td> <td>: Reservoir-03</td> <td>Analysis End Date</td> <td>: 24.03.2019</td> </tr> <tr> <td>Sample Quantity</td> <td>: 2L</td> <td>Sampling Method</td> <td>: IS-3025/MPHA</td> </tr> <tr> <td>Cond. - Sample Receipt</td> <td>: Satisfactory</td> <td>Packing</td> <td>: Sealed</td> </tr> </table> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameters</th> <th>Results</th> <th>Unit</th> <th>Test Method</th> <th>Norms</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>Lead as Pb</td> <td>NDL(QL=0.1)</td> <td>mg/L</td> <td>MPHA 23rd Edn 2017 3111 B</td> <td>0.1</td> </tr> <tr> <td>14</td> <td>Total Chromium as Cr</td> <td>NDL(QL=1)</td> <td>mg/L</td> <td>MPHA 23rd Edn 2017 3111 B</td> <td>1</td> </tr> <tr> <td>15</td> <td>Phenolic Compound as C₆H₅OH</td> <td>NDL(QL=0.2)</td> <td>mg/L</td> <td>MPHA 23rd Edn 2017</td> <td>1</td> </tr> </tbody> </table> <p><small>* Indicates these parameters are not covered under NABL Scope N= Not Specified, QL = Below Quantification Limit, QL = Quantification Limit</small></p> <p align="center">   Analyzed By: Authorized Signatory Aditi Tiwari, Lab Chemist Prayal Patel, Lab Manager </p> <p><small>Terms & Conditions : This test report shall not be reproduced except in full, without written approval from Go Green Mechanisms Pvt. Ltd. and test results furnished herein the report to the sample received. Report can not be used as an evidence anywhere without prior permission. Sample will be retained (wherever applicable) only for 15 days from the date of sampling. Total liability of our institution is limited to the invoiced amount. Endorsement of products is neither inferred nor implied. Any dispute arising out of this test report is subject to Ahmedabad Jurisdiction.</small></p> <p align="center"> <small>Recognized by GPCB as "Environment Auditors-Schedule I" Accredited by NABL (Certificate No. TC-7073), MOEF&CC, RSPCB, OHSAS 18001 & ISO 9001 Certified Company</small>   </p>	Lab ID	: Lab/1489/H-03	Sampling Date	: 14.03.2019	Sample Drawn By	: Kapil Jadhav	Sample Receipt Date	: 15.03.2019	Sample Type	: Wastewater	Analysis Start Date	: 16.03.2019	Sample Description	: Reservoir-03	Analysis End Date	: 24.03.2019	Sample Quantity	: 2L	Sampling Method	: IS-3025/MPHA	Cond. - Sample Receipt	: Satisfactory	Packing	: Sealed	Sr. No.	Parameters	Results	Unit	Test Method	Norms	13	Lead as Pb	NDL(QL=0.1)	mg/L	MPHA 23rd Edn 2017 3111 B	0.1	14	Total Chromium as Cr	NDL(QL=1)	mg/L	MPHA 23rd Edn 2017 3111 B	1	15	Phenolic Compound as C ₆ H ₅ OH	NDL(QL=0.2)	mg/L	MPHA 23rd Edn 2017	1
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vi.	Topsoil 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.	Top soil is used in backfilling of 40Ha area (8.30 Lakh M3) in which plantation is developed. Top soil used on top of dump, final edge of dumps for plantation and grass on geo coir matting.																																																
vii	OB shall be stacked at earmarked external OB dumpsite within ML area. The ultimate slope of the existing dumps shall not exceed 28 ^o Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining.	Point noted with due esteem. The OB is being stacked at earmarked external OB dumpsites within ML area with proper monitoring and management. Plantation on external OB dumps is entrusted to Forest Department with three year post plantation																																																

Sr. No.	Conditions of EC	Compliance status
	<p>Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis. The OB stored temporarily in external OB dumps in the expansion project shall be backfilled into the decoaled quarry.</p>	<p>care, out of which 25 Ha of area is successfully vegetated with native plant species and sustaining through drip irrigation system, and 30Ha area of external dump is being planted with drip costing 9.92 lacs.</p> <p>Apart from that as a part of sound management practice, application of Geocoir textiles is successfully carried out for slope stabilization and vegetation on external OB dumps in an area of 24000 sq.m.</p> <p>Native grass species are also grown on OB dumps to avoid erosion of dumps with intermittent Aloe vera plantation and concurrent backfilling is going on. Plantation done till date is given in Table 1.</p>

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viii	<p>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 desilted and maintained properly.</p> <p>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.</p>	<p>Complied.</p> <p>Total 13.2 kms. Long garland drain is constructed in mining lease area.</p> <p>Three categories of Garland drains have been constructed in the lease area depending upon need of the area as follows:</p> <table border="1" data-bbox="781 594 1476 753"> <thead> <tr> <th>Category</th> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3.2 km</td> <td>30 mt</td> <td>6.0 mt</td> </tr> <tr> <td>B</td> <td>2.1 km</td> <td>10 mt</td> <td>2.0 mt</td> </tr> <tr> <td>C</td> <td>7.9 km</td> <td>10 mt</td> <td>1.0 mt</td> </tr> </tbody> </table> <p>Thus total 13.2 km of garland drains have been constructed in the mining lease area. The water is stored in a pond and is used in dust suppression and plantation after settling of suspended solid & lime treatment (if required). Proper care is being taken to maintain the garland drains.</p> <p>The mine seepage and runoff water is stored in mine sump after passing through a settling tank. As shown above in mine drainage plan (please refer compliance of specific condition no.iv) and attached.</p> <p>Area and Qty. of siltation ponds:</p> <table border="1" data-bbox="786 1331 1471 1682"> <thead> <tr> <th>Sr. No.</th> <th>Location</th> <th>Area in M2</th> <th>Qty. in M3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>At the end of Dedrani Nallah</td> <td>50 X 20</td> <td>5000</td> </tr> <tr> <td>2</td> <td>At the end of MM Nallah</td> <td>50 X 20</td> <td>5000</td> </tr> </tbody> </table>	Category	Length	Width	Height	A	3.2 km	30 mt	6.0 mt	B	2.1 km	10 mt	2.0 mt	C	7.9 km	10 mt	1.0 mt	Sr. No.	Location	Area in M2	Qty. in M3	1	At the end of Dedrani Nallah	50 X 20	5000	2	At the end of MM Nallah	50 X 20	5000
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ix	<p>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.</p>	<p>Presently run off and siltation is being controlled by Garland drains and earthen retaining wall, Since received rainfall is very less in Kutch region.</p>																												

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X	<p>Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometer. 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.</p>	<p>Compliance under progress.</p> <p>Monitoring of groundwater level and quality is being carried out from existing wells as well as from the piezometer recently installed (February 2019) at GMDC Mata No Madh.</p> <p>Presently regular monitoring of groundwater level and quality is being carried out from existing wells. Pre-monsoon data are as follows:</p>				
		Month	Well no./Village	Parameter observed		
				Water level (Bsc, mts)	pH	TDS ($\mu\text{g}/\text{m}^3$)
		Apr, 19	Well 1 (Kotada)	-	7.2	980
			Well 2 (Mata na Madh)	-	7.3	1800
			Well 3 (Dedrani)	-	7.4	950
		May, 19	Well 1 (Kotada)	-	-	-
			Well 2 (Mata na Madh)	-	7.40	1740
			Well 3 (Dedrani)	-	7.8	1440
		Jun, 19	Well 1 (Kotada)	-	7.3	1280
			Well 2 (Mata na Madh)	-	7.4	1900
			Well 3 (Dedrani)	-	7.5	950
		Jul, 19	Well 1 (Kotada)	-	6.86	628
			Well 2 (Mata na Madh)	-	7.02	1440

Sr. No.	Conditions of EC	Compliance status				
			Well 3 (Dedrani)	-	6.96	614
		Aug,19	Well 1 (Kotada)	-	7.2	614
			Well 2 (Mata na Madh)	-	7.09	1520
			Well 3 (Dedrani)	-	7.35	617
		Sep, 19	Well 1 (Kotada)	-	7.15	650
			Well 2 (Mata na Madh)	-	7.42	1650
			Well 3 (Dedrani)	-	6.98	730
		The stored mine pit water is regularly monitored. The stored water is treated with caustic lye at 1ry ETP to prescribed standards and then used in dust suppression as well as for green belt development.				
xi	Mine pit water which is high in TDS shall be treated in an RO Plant for desalination using Solar Energy technology to prescribed limits for various uses including supply of potable water to nearby villages and to schools adopted under CSR and before discharge into natural water/land. No brine sludge shall be store within the premises. Brine sludge generated shall be disposed off to potential buyers (chemical units) with whom the proponent shall enter in to an MOU.	The bid for installation of solar energy based water treatment system was invited and still it is in process. Presently mine pit water is managed in side mine by exposing it to bottom most layer of clay where its quality enhances. Stored water at surface is also treated by lime dosing, inside mine lease without any discharge outside and utilized for sprinkling over haul roads to abate particulate dust. Hardy species of plants are being explored in consultation with scientist of CAZRI, Bhuj.				
xii	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	The underground water recharge structure strengthening and creation of new check dams are under progress. Till date about Rs. 75.19 lakhs has been contributed for renovation of four ponds and check dams and creation of one new check dam for nearby villages (Lifri, Kotda and Asaldi villages).				

Sr. No.	Conditions of EC	Compliance status												
	<p>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.</p>	<p>As such no complain received till date from nearby village(s) regarding decline in water table. However, Communication with GWRDC is in process for monitoring the same by installation of Piezometers at various locations. GMDC has made artificial ground water recharge structures as per below:</p> <table border="1" data-bbox="792 594 1479 982"> <thead> <tr> <th data-bbox="792 594 857 678">Sr. No.</th> <th data-bbox="857 594 1166 678">Type of Structure</th> <th data-bbox="1166 594 1479 678">Location</th> </tr> </thead> <tbody> <tr> <td data-bbox="792 678 857 814">1</td> <td data-bbox="857 678 1166 814">Check dam in channel (400 x80 x 3) m3</td> <td data-bbox="1166 678 1479 814">Check Dam at Dedrani Nallah South east of MNM.</td> </tr> <tr> <td data-bbox="792 814 857 898">2</td> <td data-bbox="857 814 1166 898">Check dam in channel (560 x 110 x5) m3</td> <td data-bbox="1166 814 1479 898">Near Nursery</td> </tr> <tr> <td data-bbox="792 898 857 982">3</td> <td data-bbox="857 898 1166 982">Check dam in Channel (250x28x3.5) m3</td> <td data-bbox="1166 898 1479 982">Denma Village</td> </tr> </tbody> </table>	Sr. No.	Type of Structure	Location	1	Check dam in channel (400 x80 x 3) m3	Check Dam at Dedrani Nallah South east of MNM.	2	Check dam in channel (560 x 110 x5) m3	Near Nursery	3	Check dam in Channel (250x28x3.5) m3	Denma Village
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xiii	<p>A minimum 20 m distance shall be maintained between the ultimate working depth and the depth at which the confined water aquifer is found. It shall be ensured that at no stage of the mining operation, the confined aquifer is intersected.</p>	<p>Complied.</p>												
xiv	<p>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.</p>	<p>Complied. No ground water is used. Only mine seepage water and Harvested rain water (Capacity: 5 lac m³) is utilized for sprinkling and plantation purpose.</p>												
xv	<p>Water sprinkling system shall be provided to check fugitive emissions, haulage roads, transfer points, etc. and fugitive dust emissions shall be kept under control.</p>	<p>Complied. This is a working mine. Four numbers of mobile water sprinklers are working round the clock for control of fugitive dust emissions. Besides this we have established a system of static sprinklers for 300mt stretch on lignite trucks haul roads. Regular monitoring is done to ensure effectiveness of actions taken to minimize the dust emission.</p>												
xvi	<p>All approach roads, major haul</p>	<p>Complied.</p>												

Sr. No.	Conditions of EC	Compliance status
	roads and road to village shall be black topped.	8.0 m wide two lane (4m×2) black topped road having total length of 2760 m is constructed from state highway (main gate) to pit mouth at the cost of Rs. 2.44 crores. Besides this construction of black top tarr service road for a length of 2750mt from main gate to admin office to canteen completed.
xvii	Controlled blasting shall be kept to a minimum and only whenever hard start is encountered.	Agreed. No blasting activities are done till date. In future when hard strata will be encountered, relay and delay blasting can be done.
xviii	Transportation of lignite shall be in trucks covered with tarpaulin.	Complied. All loaded trucks are completely covered with tarpaulin.
xix	No mineral transportation shall be undertaken through the sanctuary or area falling within the mine and the Sanctuary, which is buffer to the mine and the Sanctuary.	This is strictly being followed.
xx	No stockpile of lignite shall be permitted. The lignite produced from mine face shall be transported immediately.	Complied. The mined out lignite is directly loaded to the consumer trucks.
xxi	ETP shall also be provided for workshop and CHP. Effluents shall be treated to confirm to prescribe standards, particularly for pH and TDS in case of discharge into any water course outside the lease.	There is no CHP in this mine. The HEMM and Corporation owned vehicles are serviced in workshop where used water is recycled after oil and grease removal and not discharged outside ML area. The transporter trucks and vehicles are serviced in private workshop.
xxii	Socio-economic survey shall be undertaken before expansion of the project. for the six identified villages of an amount of Rs 5/tonne of lignite or Rs 6 crores per annum whichever is higher shall be earmarked. 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	GMDC is well concerned about socio –economical development in nearby area through various CSR Activities. Systematic Gap Assessment project of the nearby villages is entrusted to “TERI” to find out the real needs of area and action to be implemented for better results. Recent discussions were also made with TERI in this regard; as soon as the report will be available sufficient resources will be allotted for the purpose. Various socio-economic activities through development of infrastructure have been emphasized in the whole core and buffer Zone area. Different

Sr. No.	Conditions of EC	Compliance status
	<p>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.</p>	<p>categories of works taken are listed in the Annexure I attached herewith.</p>
xxiii	<p>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 1590.2356 ha. Which includes reclaimed external OB dump area (82.68ha.), backfilled area (647.83ha), along ML boundary, along roads, green belt and plantation in undisturbed areas (272.7 ha) an area under exploration 587.0256 ha. by planting native species in consultation with the local DFO/Agriculture Department.</p>	<p>Compliance under progress. Plantation in an area of 321.71 Ha has been carried out by GMDC and with the aid of Forest department, having more than 6.78 lakh plants in the ML area surviving with excellent growth rate.(Table 1)</p> <p>Plantation has also been carried out along roadside. Common species used are indigenous such as Neem, Palms, Vad, Piludi, Gulmohar, Gundi etc. with drip irrigation facility. The spacing of the plants varies with the species. Generally the plants are planted at spacing of 2 mt x 2mt with other saplings in between making it 2500 plants per ha. The overall survival rate is about 65%.</p>
xxiv	<p>A progressive Closure Plan shall be implemented of quarry area of which 647.83 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 2500 plants per ha. It shall be ensured that the balance decoaled void of 51.68 ha being left as a water body, the upper slopes of which shall be gently sloped and reclaimed with grass and plantation. The quality of the water in the water body shall be regularly monitored and treated to ensure that it is not acidic.</p>	<p>Agreed and point noted with esteem.</p> <p>Concurrent backfilling of mined out area has been started and plantation is also being carried out for reclamation.</p> <p>The 51.68 ha decoaled void is planned to leave for a water body, the upper slopes of which shall be gently sloped and reclaimed with grass and plantation.</p> <p>The quality of the water in the water body is regularly monitored and treated to ensure that it is not acidic. We have developed 45 ha plantation on backfilled area. Density of plantation per ha is coming approximately 2000 plants per hectare.</p>

Sr. No.	Conditions of EC	Compliance status
xxv	Third party evaluation of the Habitat Restoration Plan which includes Progressive Mine Closure and Final Mine Closure shall be got done and furnished as part of the Monitoring Report.	It shall be done as per requirement. Backfilling of mined out area has started and dump stabilization is under progress. Final mine closure plan shall be submitted well in advance for approval. Third party evaluation shall be conducted as desired.
xxvi	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.	It already has completed for the year 2010 & 2013 and 2014 & 2016 as well also has submitted in Ministry with earlier EC Compliance Report.
xxvii	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.	Revised Mine Plan (4.8 MTPA) along with progressive mine closure plan has been approved from Ministry of Coal, Gol vide No. 48024/6/1992-CML/CA-I dated 19th August 2014.

B. General Conditions


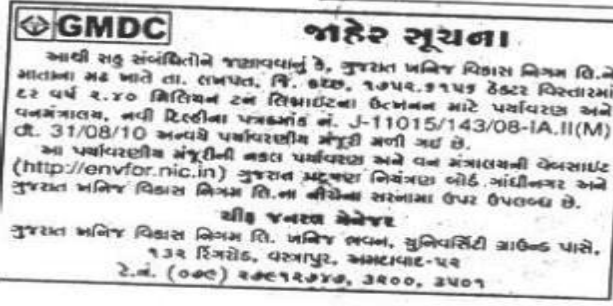
Sr. No.	Conditions	Compliance status
i.	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Complied. No change has been made in the mining technology and scope of working (ML area).
ii.	No change in the	This is being followed.

Sr. No.	Conditions	Compliance status
	calendar plan including quantum of mineral coal and waste being produced shall be made.	
iii.	<p>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 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.</p> <p>Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in particulates shall be carried out at least once in six months.</p>	<p>Complied.</p> <p>Six ambient air quality monitoring stations have been established.</p> <p>The environment monitoring work has been entrusted MOEFCC & GPCB recognized environment laboratory (Special condition V).</p>
iv.	<p>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</p>	<p>Point noted.</p> <p>Complied.</p> <p>Presently Gujarat Pollution Control Board and MOEF recognized Schedule II Environmental Auditor (M/S Go Green Mechanism, Ahmedabad) is doing monthly monitoring of the existing set of parameters.</p>

Sr. No.	Conditions	Compliance status
	recognized under the EP Rules, 1986 shall be furnished as part of the compliance report.	
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.	<p>Complied.</p> <p>Regular preventive maintenance of vehicle and machineries are carried out.</p> <p>Employees engaged in mining activity are being provided with personal protective equipments including ear plugs.</p> <p>Plantation is going on which will further attenuate the noise.</p> <p>Monthly noise monitoring is done to ensure the compliance.</p>
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 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	<p>Complied as per requirement.</p> <p>After treatment the mine seepage water is collected in mine pit & utilized for dust suppression and plantation.</p> <p>Treated workshop waste water is reused with in premises as per GPCB norms.</p>
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.	<p>Complied.</p> <p>Vehicular emissions are under prescribed standards.</p> <p>All vehicles are having PUC check certificate.</p> <p>All loaded trucks are fully covered with tarpaulin.</p> <p>No overloading of any truck is done.</p>

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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.	<p>Presently MOEFCC & Gujarat Pollution Control Board recognized Schedule II Environmental Auditor (M/S Go Green Mechanism, Ahmedabad) is doing monthly monitoring of the existing set of parameters.</p> <p>In-house laboratory is also monitoring of pollution parameters.</p> <p>List of instruments present at in-house lab is :</p> <table border="1" data-bbox="610 606 1507 1896"> <thead> <tr> <th data-bbox="610 606 748 695">Sr No.</th> <th data-bbox="756 606 1036 695">Name of Equipment</th> <th data-bbox="1044 606 1235 695">Make</th> <th data-bbox="1243 606 1507 695">Date of Purchase</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oven</td> <td>Sedko</td> <td>22-02-06</td> </tr> <tr> <td>2</td> <td>Furnace</td> <td>Nova</td> <td>22/2/06</td> </tr> <tr> <td>3</td> <td>Conductivity Meter</td> <td>MTRONICS</td> <td>22/2/06</td> </tr> <tr> <td>4</td> <td>Digital Turbidity Meter</td> <td>EI</td> <td>17/12/05</td> </tr> <tr> <td>5</td> <td>Digital pH Meter</td> <td>MTRONICS</td> <td>22/2/06</td> </tr> <tr> <td>6</td> <td>Balance</td> <td>Citizen</td> <td>22/2/06</td> </tr> <tr> <td>7</td> <td>B.O.D Incubator</td> <td>EE</td> <td>17/12/05</td> </tr> <tr> <td>8</td> <td>Water & Soil Analysis Kit (Model No.151E)</td> <td>EI</td> <td>22/2/06</td> </tr> <tr> <td>9</td> <td>Water & Soil Analysis Kit (Model No.161E)</td> <td>EI</td> <td>03-03-06</td> </tr> <tr> <td>10</td> <td>C.O.D Reactor</td> <td>HANNA</td> <td>22/2/06</td> </tr> <tr> <td>11</td> <td>B.O.D Sensor</td> <td>VELP (Scientifica)</td> <td>17/12/05</td> </tr> <tr> <td>12</td> <td>Pocket TDS meter</td> <td>Milwaukee CD 600</td> <td>Year:2009</td> </tr> <tr> <td>13</td> <td>Bench top Selective Ion Orion Meter 920A+</td> <td>Thermo</td> <td>24/11/06</td> </tr> <tr> <td>14</td> <td>Electrode</td> <td></td> <td></td> </tr> <tr> <td></td> <td>a. Cupric</td> <td>Thermo</td> <td>22/2/06</td> </tr> <tr> <td></td> <td>b. Calcium</td> <td>Thermo</td> <td>22/2/06</td> </tr> <tr> <td></td> <td>c. Chloride</td> <td>Thermo</td> <td>22/2/06</td> </tr> <tr> <td></td> <td>d. Ammonia</td> <td>Thermo</td> <td>22/2/06</td> </tr> <tr> <td></td> <td>e. Na</td> <td>Thermo</td> <td></td> </tr> </tbody> </table>	Sr No.	Name of Equipment	Make	Date of Purchase	1	Oven	Sedko	22-02-06	2	Furnace	Nova	22/2/06	3	Conductivity Meter	MTRONICS	22/2/06	4	Digital Turbidity Meter	EI	17/12/05	5	Digital pH Meter	MTRONICS	22/2/06	6	Balance	Citizen	22/2/06	7	B.O.D Incubator	EE	17/12/05	8	Water & Soil Analysis Kit (Model No.151E)	EI	22/2/06	9	Water & Soil Analysis Kit (Model No.161E)	EI	03-03-06	10	C.O.D Reactor	HANNA	22/2/06	11	B.O.D Sensor	VELP (Scientifica)	17/12/05	12	Pocket TDS meter	Milwaukee CD 600	Year:2009	13	Bench top Selective Ion Orion Meter 920A+	Thermo	24/11/06	14	Electrode				a. Cupric	Thermo	22/2/06		b. Calcium	Thermo	22/2/06		c. Chloride	Thermo	22/2/06		d. Ammonia	Thermo	22/2/06		e. Na	Thermo	
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		15	Spectrophotometer	SYSTRONICS	11-09-05
		16	Flash & Fire Point Apparatus	SUNBIM	17/12/05
		17	Noise Level Meter	AGRONIC	22/2/06
		18	Balance	Mx-RADY	27/12/09
		19	Fine particulate Dust sampler (for the monitoring of PM10 & PM2.5)	Instrumex IPM-FDS	23/3/2013
ix	<p>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.</p> <p>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.</p>	<p>Provided as required.</p> <p>All the preventive measures are being taken to protect the workers. The workers are provided adequate vocational training and awareness on health and safety aspects.</p> <p>Occupational health surveillance programmers are being carried out periodically as per the DGMS norms to check any irregularities in mine workers due to exposure to dust and to take necessary actions if required. Recently all the employees of Mata Na Madh mine were medically examined by NIMH, Nagpur.</p>			
X	<p>A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.</p>	<p>Complied.</p> <p>At project level, Environmental Cell is already working directly under the control of Project head.</p> <p>Environment cell is also working at corporate level under the control of Chief General Manager who is directly reporting to MD of the organization.</p>			
xi	<p>The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for</p>	<p>Agreed.</p> <p>GMDC is concerned with the environmental protection measure and has allocated sufficient funds for implementing the measures.</p>			

Sr. No.	Conditions	Compliance status
	other purpose. Year wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.	
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	<p>Published dt 30.10.2010 in Kutch Mitra (Gujarati language) and dt 30.10.2010 in Indian Express (English language).</p> <div data-bbox="610 537 1414 1283" style="border: 1px solid black; padding: 5px;"> <p>Copy of advertisement</p> <p>1. English News paper: Indian Express dated 30.10.2010</p>  <p>2. Local Language (Gujarati): Kutch Mitra dated 30.10.2010</p>  </div>
xiii	A copy of the environmental clearance letter shall be marked to concerned panchayat/Zilla 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.	<p>Complied.</p> <p>The copy of Environmental Clearance is marked to relevant offices and the youth panchayat from where representations were received. EC letter is permanently displayed at GMDC website www.gmdcltd.com under environment section.</p>


Sr. No.	Conditions	Compliance status
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/ Tehsildar's office for 30 days.	Point noted.
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} , SO ₂ and NO _x (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.	EC letter is uploaded at GMDC website www.gmdcltd.com under environment section. Compliance of EC conditions shall be uploaded. A display board showing pollution parameter is already displayed at project site.
xvi	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental	Point noted and shall be complied with.

Sr. No.	Conditions	Compliance status
	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.	
xvii	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the office(s) of the regional office by furnishing the requisite data/information /monitoring reports.	Point noted with esteem. All assistance shall be provided for monitoring authorities.
xviii	The environmental statement for each financial year ending 31 st 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.	Annual statement for each financial year ending 31 st March in Form-V is also been regularly submitted to GPCB. Copy of Environment Statement for the year 2017-18 has enclosed herewith as Annexure II .
3	The Ministry of any other competent	Point noted with esteem.

Sr. No.	Conditions	Compliance status
	authority may stipulate any further condition for environmental protection.	
4.	Failure to comply with any of the conditions mentioned above could result in withdrawal of this environmental clearance.	Point noted GMDC is committed to the compliance of the stipulated conditions.

Thanking you

For GMDC Ltd.


 20/01/2020
 General Manager (P),
 Mata No Madh.