

TMIS REPORT DATA SHEET

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Vastan Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	80.00 Ha i) Waste Land - 16.06 Ha ii) Agriculture Land - 63.94 Ha
3	Mine Code	38GUJ15001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/502/2011
5	Name of the lessee, Address, phone, email and fax number.	M/s Gujarat Industries Power Company Limited (GIPCL) P.O. Petrochemical, Vadodara-Gujarat +91 2629 261087 cgmminesoffice@gipcl.com
6	Village	Nogama & Tadkeshwar
7	Taluka/Mandal	Mangrol
8	District	Surat
9	Pincode	394110
10	State	Gujarat
11	Post office	Nani Naroli
12	Nearest police station	Nani Naroli
13	Nearest Railway station	Kim Railway Station about - 18.0 Km.
14	Date of Grant of Mining Lease	15/10/1999
15	Date of Execution	15/10/1999
16	Date of opening of Mine	January, 2000
17	Date of first Renewal, if applicable and its period & expiry	MS-547/09 MCCR (U) UDR dated 04/01/2011 for 2009-10 to 2013-14
18	Date of second Renewal, if applicable and its period & expiry	MS-547/2009-MCCM (N) Udp dtd. 20.04.2015 with the mining proposal for 2015-16 & 2016-17.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Smt. Shahmeena Husain, IAS, Managing Director & Nominated Owner M/s Gujarat Industries Power Company Limited. Date of Appointment: 20/05/2017
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment.	Mr. N. K. Purohit GM (Mines) Phone No. 02629-261087 Gujarat Industries Power Company Limited, Surat Lignite Power Plant, At & P.O. Nani Naroli, Taluka Mangrol, Dist. Surat-394 110, Gujarat Date of Appointment: 25/10/2012
22	Name of the Mines Manager with Address, phone, email, fax number	Sh. M. A. Nipane Date of Appointment: 02/03/2017

	and date of appointment in mine.	Gujarat Industries Power Company Limited, Surat Lignite Power Plant, At & P.O. Nani Naroli, Taluka Mangrol, Dist. Surat-394 110, Gujarat
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sh. M. R. Chaudhary Date of Appointment: 06/02/2017 Gujarat Industries Power Company Limited, Surat Lignite Power Plant, At & P.O. Nani Naroli, Taluka Mangrol, Dist. Surat-394 110, Gujarat
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Sh. Vijay R. Yadav
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	28/04/2005
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	MS-547/09 MCCR (U) UDR dated 04/01/2011 for 2009-10 to 2013-14, MS-547)/2009-MCCM (N) Udp dtd. 20.04.2015 with the mining proposal for 2015-16 & 2016-17 and 22/11/2016
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –
Exploration

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	No	No	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No	No	
1d	Balance area to be explored to bring Geological axis in 1 or 2	39.89 Ha Fully Area already explored for Geological axis – 1	39.89 Ha	Mineral Limestone deposit are pocket & scattered so close interval exploration is required

1e	Balance reserves as on 01.04.2017	12.07 MTe	12.07 MTe	
1f	General remarks of inspecting officer on geology, exploration etc.	There are very few rock exposures; the area is mainly covered by alluvium. These tertiary formations are in Deccan trap in the eastern part of the area. It is reported that 67 boreholes drilled between pit 3 & Pit 4		

2.0 Development

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
2a	Location of development w.r.t. lease area	Pit No.1, Pit No. 2 and Pit No. 3	Pit No.1, Pit No. 2 and Pit No. 3	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:1.60	1:1.04	
2d	Quantity of topsoil generation in m3	6062	Not specified	Soil were stacked at separate location.
2e	Quantity of overburden generation in m3	420531+6062 = 426593	205764	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is being worked out in Pit No. 1, 2 & 3 and this is almost flat deposit with some undulations.		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	Pit no.1 Pit no.2 Pit no.3	Pit no.1 Pit no.2 Pit no.3	
3b	Quantity of ROM mineral production proposed	1410071	308535	
3c	Recovery of Salable/ usable mineral from ROM production	262021	251924	
3d	Quantity of mineral reject generation	420531	205764	
3e	Grade of mineral reject generation and threshold value declared	34% Cao cut of grade limestone	34% Cao cut of grade limestone	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method	Mechanised Method	
3i	Any analysis or beneficiation study proposed & carried out for sub-	NA	NA	

	grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	No	No	
3k	Provision of mining machineries in mineral benches	Rock breaker, JCB, Loader, Hydraulic Dumpers & Excavator have been used for excavation	Rock breaker, JCB, Loader, Hydraulic Dumpers & Excavator have been used for excavation	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	
3m	Total area covered under excavation/pits	23.6448 Ha	23.64 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:1.60	1:1.04	
3o	Total area put in use under different heads at the end of year	Pit-23.6448 Ha Waste/reject- Nil Others- Nil	Pit - 23.64 Ha Waste - 2.56 Ha	Waste was disposed as backfilled
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2012-13 3,40,000Mt Yr-2013-14 3,40,000Mt Yr- 2014-15 nil Yr-2015-16 2,33,453Mt Yr-2016-17 3,08,535Mt	Yr- 211515 Te Yr- 73502 Te Yr- 0.00 Te Yr- 178783 Te Yr- 251924 Te	
3q	General remarks of inspecting officer on method of mining etc.	The mining is carried out by mechanized method by forming benches and no drilling or blasting is done. There are four working pits		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	It was proposed that top soil will be used for plantation and OB will be backfilled	The soil is used for plantation and OB is being backfilled.	

4c	Number of dumps within lease area and outside lease area	Within Lease Area- Backfilled Outside lease- Nil	Within Lease Area- Backfilled Outside lease- Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Nil	Mined out area will be back filled
4e	Number of active & alive dumps	Nil	Nil	Mined out area will be back filled
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	OB and Waste was backfilled in the void, Hence Retaining wall and garland drain was not prepared.
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer	It was proposed in the Mining Plan that OB/Waste will be backfilled in the mined out pit and same is being practiced.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Yes, Partly in Pit No. 1	Yes, Partly in Pit No. 1	
5b	Area under backfilling of mined out area	5.65 Ha	4.9520 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	Soil was stacked at separate location.	
5d	Total area fully reclaimed & rehabilitated	No reclamation of dump during the plan period, because dump	No reclamation of dump during the plan period, because dump will not mature	

		will not mature during this period.	during this period.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling is being carried out in the mined out areas as proposed.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	4.952 Ha 1.000 Ha 1000 Back filled area planted 1.00 Lakh Rs.	3.308 Ha 2.008 Ha. 7900 119217 Back filled area planted 7.90 Lakh Rs.	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	L - 240 M W - 137 M D - 16 M 4.9520 Ha 1.025 Ha Nil Nil	L - 240 M W - 137 M D - 16 M 4.9520 Ha 1.025 Ha Nil Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The party has not yet submitted the PMCP report and for that violation is pointed out.		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	No	No	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	Will be utilised after the reclamation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	No	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 Plants were Proposed	7900 Plants are planted	
8g	Survival rate	80%	95%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The aesthetic beauty is good except some pits		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to - 3/10/2017 A.R. submitted up to - 28/06/2017	

S.N.	Item	Details Given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Online returns are being submitted by the party	The returns were found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

During the inspection of Modified Mining Plan carried out on 27.10.2017, the violation of Rule 26(2) and 33 have been pointed out.