

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Vastan Limestone Mine
1a	Name of Inspecting Officer and Designation	Sh. Pushpender Gaur, RCOM, IBM, GN Alongwith Shri Mohammed Nimar, DCOM (for Induction)
1b	Date of Inspection	18/11/2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	80 Hectare, Non -forest land.
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, Office, PO - Ranoli, 391350. Dist - Vadodara. Gujarat.
	The Mine Address	Vastan Limestone Mine
6	Village	Vastan
7	Taluka/Mandal	Mangrol
8	District	Surat
9	Pin code	394110
10	State	Gujarat
11	Post office	GIPCL, Nani Naroli
12	Nearest police station	Mosali
13	Nearest Railway station	Kim
14	Date of Grant of Mining Lease	Date of approval of Lignite Mining Lease on 04/07/1996 and inclusion of Limestone lease on 7/12/1998
15	Date of Execution	15/10/1999
16	Date of opening of Mine	15/10/1999
17	Approved Mining Plan till Date, if applicable and its period & expiry	(A) Mining Plan was approved by the Controller of Mines, IBM, Ajmer vide order no. 682(23) (378)/2005-UDP. dt. 28/4/2005 for period 2004-05 to 2008-09 (B) Mining Plan was approved by RCoM, IBM, Udaipur vide order no. 682(23) MS-547/09 MCCR (U) UDR dated 04/01/2011 for 2009-10 to 2013-14 (C) Mining Plan of five-year block period was approved by RCoM, IBM, Udaipur vide letter No. 682(23) (MS-547)/2009-MCCM (N) Udp dtd. 20.04.2015 with the mining proposal for 2015-16 & 2016-17 (D) Mining Plan with Review of Progressive Closure Plan was approved for a period of five (5) years from 2017-18 to 2021-22 on dated 22/11/2016. And Modification of Mine Plan from 2017-18 to 2021-22 was approved on 06/12/2017, Vide letter no - 684(4)(1)/MP-73/2017- GNR. (E) Mining Plan with Review of Progressive Closure Plan was approved for a period of five (5) years from 2022-23 to 2026-27 on dated 17/12/2021, vide File No:684(4)(1)/MP-362(73)/2021-22 GNR.
18	Date of second Renewal, if applicable and its period & expiry	NA
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	Mrs Vastsala Vasudeva (IAS), Address: Gujarat Industries power Company Ltd, GIPCL, Office, PO - Ranoli, 391350. Dist - Vadodara. Gujarat. Phone: 0265 2230182, Email: md@gipcl.com , Date of appointment: 20/08/2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr Prakash Chand, Address: Gujarat Industries power Company Ltd, SLPP, Nani Naroli, Tal -Mangrol, Dist.-Surat, Gujarat. 394110 Phone: 9978937702 Email: cgmminesoffice@gipcl.com Date of appointment: 06/05/2010
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr N K Chauhan, Address: Gujarat Industries power Company Ltd, SLPP, Nani Naroli, Tal -Mangrol, Dist.-Surat, Gujarat. 394110 Phone: 9909925341 Email: nkchauhan@gipcl.com Date of appointment: 12/02/2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr M R Choudhary, Qualification AMIE (Mining), Experience-24 years, Address: Gujarat Industries power Company Ltd, SLPP, Nani Naroli, Tal -Mangrol, Dist.-Surat, Gujarat. 394110 Phone: 9099045784, Email: mrchoudhary@gipcl.com , Date of appointment in the mine: 02/01/2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Mineral(s) granted in lease and proved for mining	Limestone
26	Method of Mining (Opencast, Underground)	opencast
27	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
28	Captive/Non-Captive	Captive

Scientific Mining:

Compliance of proposals of approved mining plan/scheme of mining. –**Exploration**

SN	Item	Proposals (2022-23)	Actual work (2022-23, upto Nov 2022)	Remarks
1a	Backlog of previous year	Nil	Nil	No proposals given for exploration as the entire area is under G1 axis. However exploration was carried out in the
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	

1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	year 2019 through agency M/s Khanna Associated.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves in Ton	14,65,616 tonne as on 01/04/2022		
1f	General remarks of inspecting officer on geology, exploration etc.	No Any		

2.0 Development

SN	Item	Proposals (2022-23)	Actual work (2022-23,)	Remarks
2a	Location of development w.r.t. lease area	Pit 3 21.39038° to 21.39258° N 73.07563° to 73.07803° E	Pit 3 21.39038° to 21.39258° N 73.07563° to 73.07803° E	Area put to use during the year 2022-23 is within the approved mine plan proposal.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Bench dimation H-3m by W-3m	Maintained H-3m by W-3m	Page no 48, 4.2.2.1 – Bench parameters as per approved mine plan.
2c	Stripping ratio or ore to OB ratio	1:0.784	1:1.0235	Limestone= 251129 Te OB =257048.48 Cum
2d	Quantity of topsoil generation in m3	27725	39640	Page no 86, 6.2.9– Topsoil management, as per approved mine plan.
2e	Quantity of overburden generation in m3	235225	257048.48	Page no 52, 4.3.2 – Insitu mining as per approved mine plan.

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	One (Pit-3)	One (Pit-3)	
3b	Quantity of ROM mineral production proposed (in Ton)	300000	251128.96	Page no 52, 4.3.2 – Insitu mining as per approved mine plan
3c	Recovery of saleable/unsalable mineral from ROM production	--	--	100% is usable.
3d	Quantity of mineral reject generation	--	--	
3e	Grade of mineral reject generation and threshold value declared	--	--	
3f	Quantity of sub-grade mineral generation	--	--	

3g	Grade of sub-grade mineral generation	--	--	
3h	Manual / Mechanised method adopted for segregating from ROM	--	--	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	NA	NA	
3k	Provision of mining machineries in mineral benches	YES	YES	Excavators & Dumpers combination
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	26.1209	25.124	Total area put to use during the year 2022-23 is 25.124 Ha.
3n	Ore to OB ratio for the pit/mine during the year	1:0.784	1:1.0235	
3o	Total area put in use under different heads at the end of year	41.337	40.3586	Page no 88, 7 – Financial assurance as per approved mine plan
3p	Production of ROM mineral during last five-year period, as applicable	Yr(2018-19) - 422874 Yr(2019-20) - 424739 Yr(2020-21) - 422153 Yr(2021-22) - 424316 Yr(2022-23) - 300000	Yr(2018-19) - 258423 Yr(2019-20) - 281366 Yr(2020-21) - 270289 Yr(2021-22) - 277051 Yr(2022-23) - 251128.96	
3q	General remarks of inspecting officer on method of mining etc.	Systematic and scientific mining as per mining plan proposals found.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NA	NA	
4b	Location of topsoil, OB & mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active & alive dumps	NA	NA	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	

4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	No external dump.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	--	--	
5b	Area under backfilling of mined out area (yearly and cumulative)	For 2022-23- 2.9642 Cumulative- 11.56	For 2022-23- 4.6248 Cumulative- 15.649	Backfilling is carried out in exhausted pit No. 1 & 2 (Partly Backfilled)
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	--	Top soil generated is being used for spreading on backfilled area for plantation.
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling was observed.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work (2022-23)	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.	Chapter no 6 of approved Mining plan with Progressive Closure Plan period of five (5) years from 2022-23 to 30 th August 2026 on dated 17/12/2021	Yes, for FY 2022-23 Report submitted online, Dated: 29/06/2023 as per Mine Plan	
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	Area proposed for grassing in pit no 3 – 0.5599 Ha	0.6Ha on benches of pit no - 3	Plantation on worked out benches over backfilling.

	vi) Cost incurred on watch & care during the year			
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Total cumulative Mined out area already reclaimed by means of backfilling (in hect) at the end of financial year</p> <p>ii) Afforestation on the backfilled area</p> <p>iii) Rehabilitation by making water reservoir</p> <p>iv) Any other specific means</p>	<p>i) 11.56</p> <p>ii) 0.5 Ha</p> <p>iii) NIL</p> <p>iv) NIL</p>	<p>i) 15.6494 (some area is partly backfilled)</p> <p>ii) 1.2 Ha (1204 Nos of saplings)</p> <p>iii) NIL</p> <p>iv) NIL</p>	Sapling survived 1204 out of 1400 no's of sapling planted
6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	<p>i) NIL</p> <p>ii) NIL</p> <p>iii) NIL</p>	<p>i) NIL</p> <p>ii) NIL</p> <p>iii) NIL</p>	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring shall be carried out.	Compliance of Environmental monitoring (Core zone and buffer zone) is being carried out.	Eco-systems resource management pvt. ltd. is carrying out environmental management work.
6f	Other (specify) : Fencing	360 m	Complied 365 m fencing done.	
6g	General remarks of inspecting officer on PMCP compliance & progressive	Overall satisfactory.		

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	Captive consumption of ROM.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical Crushing	Mechanical Crushing	Only ROM Mechanical crushing is done for sizing
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines			None
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	This mine is one of the good example of mineral conservation as the limestone overlapping on lignite is used at power plant to control sulphur.		

8.0 Environment

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	27725 cum	39640 cum	Yes, total 39640 cum top soil generated in 2022-23 is being used for spreading on backfilled area for plantation.
8b	Concurrent use or storage of topsoil	Nil	Nil	Use of backfilling for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	OB material shall be carried out for backfilled in mined out area.	Use of OB/IB is being carried out for backfilling in mined-out area restoring land.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-	-	Backfilling
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yearly 0.5 Ha area proposed for plantation.	Afforestation on backfilled-1.2 Ha area (1400 plants)	Total Afforestation on backfilled - 1.2 Ha area (plants survived -1204 out of 1400 saplings planted)
8g	Survival rate	--	86.00%	

8h	Water sprinkling on roads to control airborne dust	Water sprinkling for dust emission control	Regular mobile water tanker/ with sprinkler attached is being used for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Overall satisfactory.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
1.	Status of submission of Monthly and Annual returns	Monthly & Annual return is being submitted on regularly	Last Month of Oct 2023, Monthly return has been submitted before 08 th Nov 2022 and Annual return was submitted on 29/06/2023

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	Mining Engineer-01,, Geologist-01 and Manager-01	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Pits – 25.124 Ha.	Found in order	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year – 2900	Found in order	Survival Rate – 86 % within lease & 82% outside lease
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	251128.960 MT Graded Stock has been reported.	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine price and Cost of Production Reported as 427.36	Found in order	
9i	Scrutiny of Annual return on fixed assets	Rs 429594000	Found in order	
9k	Scrutiny of Annual return on mining machineries	Back Hoe 1.000 Cum - 4	Found in order	

		Back Hoe 1.300 Cum - 1- Back Hoe 1.300 Cum-1, Dozer 150.000 Hp- 1, Dumper 25.000 Tonne 12 Front End Loader 1.000 Cum -1 Crusher 150.000 T/H- 1 Water Tanker 10000.000 Litre 1		
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Observation made:-

1. Visited the backfilled site of pit – 1, where Swachhata activities was going on with accordance with the observance of “Swachhata Pakhwada” 2023 (16th to 30th Nov 2023).
2. The backfilling site was visited at pit – 2, where simultaneous activities of backfilling and compaction by dozing was going on by Dozer (D150). The waste material was coming from pit no - 3. Also, the fresh heaps of black cotton soil (Top-soil) for spreading over the backfilled area was also observed.
3. The mining operation was going on at pit no – 3, where JCB make crawler mounted excavator of bucket capacity 1.1 cum engaged in loading into 20 tonne tippers.
4. Rain water harvesting well 03 Nos. near pit-3, of 1mt diameter was observed.

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
No significant violation/contraventions found.