MCDR INSPECTION REPORT

GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Vastan Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Shri Sanjaya Kumar Sahoo, Junior Mining Geologist
		Mr N K Chauhan, Mr Madhu Ranjan Choudhary and Ms J J
1(c)	Accompanying Mines Representatives	Desai
1(d)	Type of Inspection	Star Rating
1(e)	Date of Inspection	17.12.2024
2	Total Lease Area (Ha) with breakup of Non-	80 Ha (Non-forest Land)
	forest and forest land	, ,
3	Mine code	38GUJ15001
4	IBM Registration Number under rule 45 of	IBM/502/2011
	MCDR, 1988	
5	Name of the lessee, Address, phone, email	M/s Gujarat Industries Power company Limited, GIPCL,
	and fax number	Office, PO - Ranoli, 391350.
		Dist Vadodara. Phone no-+91 2629261087,
		Faxno+912629261112Gujarat.
<u> </u>	Y'!	cgmmineoffice@gipcl.com
6	Village Taluka/Mandal	Nogama & Tadkeshwar
7	Taluka/Mandal	Mangrol
9	District Dip gode	Surat
-	Pin code State	394112 GUJARAT
10	State Post office	
11	Post office	GIPCL, Nani Naroli
12	Nearest Pailway station	Mosali Kim
14	Nearest Railway station	7-12-1998 to 30-08-2026
15	Date of Grant of Mining Lease Date of Execution	7-12-1998 to 30-08-2026 15-10-1999
16	Date of Execution Date of opening of Mine	15-10-1999
17	Date of opening of withe Date of first Renewal, if applicable and its	NA
1/	period & expiry	1777
18	Date of second Renewal, if applicable and its	NA
	period & expiry	
19	Date of submission of renewal application if	Expiry: 30-08-2046, vide letter no. MCR-1092-(g-8)-3626-
	Mining Operations are continuing under	CHH1, dated- 08-11-223
	deemed extension	
20	Name of the Nominated Owner with	Mrs Vastsala Vasudeva (IAS),
	Address, phone, email, fax number and date	Address: Gujarat Industries power Company Ltd, GIPCL,
	of appointment	Office, PO - Ranoli, 391350.
		Dist Vadodara. Gujarat.
		Phone: 0265 2230182,
		Email: md@gipcl.com,
21	Name of the Nation Annual Add Add	Date of appointment: 20/08/2018
21	Name of the Mine Agent with Address,	Mr Prakash Chand,
	phone, email, fax number and date of	Address: Gujarat Industries power Company Ltd,
	appointment	SLPP, Nani Naroli, Tal -Mangrol, DistSurat, Gujarat. 394110
		Phone: 9978937702
		Email: cgmminesoffice@gipcl.com
		Date of appointment: 06/05/2010
22	Name of the Mines Manager with Address,	Mr Madhu Ranjan Choudhary,
	phone, email, fax number and date of	Address: Gujarat Industries power Company Ltd,
	appointment in mines	SLPP, Nani Naroli, Tal -Mangrol,
		DistSurat, Gujarat. 394112
		Phone: 9099045784
		Email: mrchoudhary@gipcl.com
		Date of appointment: 16/05/2024
23	Name of the Mining Engineer, Qualification	Mr Vinod Kumar Singh,
	and total experience with Address, phone,	Qualification: Diploma in Mining with second class Manager
	email, fax number and date of appointment	Competency under MMR,1961
	in mine	Experience-30 years,
		Address: Gujarat Industries power Company Ltd,
		SLPP, Nani Naroli, Tal -Mangrol,
		DistSurat, Gujarat. 394112

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		Phone: 9909992510
		Email: vrsingh@gipcl.com,
		Date of appointment in the mine: 16/05/2024
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 &57.	Ms Janki Desai
25	Date of Approval of Mining Plan/Modified Mining Plan /Review of Mine Plan with five-year period and specific condition in approval letter, if any.	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)/2021-22/2116 GNR
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	opencast
29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/Non Captive	Captive

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

1.0 Exploration

	Exploration					
SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks		
1a	Backlog of previous year	No Proposal	Not Applicable			
1b	Exploration over lease area for	No Proposal	Not Applicable			
	Geological axis 1 or 2.					
1c	Exploration Agency &	No Proposal	Not Applicable			
	Expenditure in lakh Rupees during					
	the year					
1d	Balance area to be explored to	No Proposal	Not Applicable			
	bring Geological axis in 1 or 2					
1e	Balance reserves as on 31.03.2024	UNFC Code 111: 1	300426.16 MT			
1f	General remarks of inspecting	Total area is already explored to G1. No violation found.				
	officer on geology, exploration etc.					

2.0 Development

SN	Item	Proposals	Actual work	Remarks	
		(2023-24)	(2023-24)		
2a	Location of development w.r.t.	Pit 3	Pit 3	Size of Pit 3: 197m x	
	lease area	21.38949° to 21.39230° N	N21°23'23.9" &	71m x 3m	
		73.07559° to 73.07795° E	E073°04'39.8"		
2b	Separate benches in topsoil,	3m in Mineral & 3m in	3m in Mineral &		
	overburden and mineral	Overburden	3m Overburden		
	(Rule 15)				
2c	Stripping ratio or ore to OB ratio	1:1.266	1:1.16		
2d	Quantity of topsoil generation in	52760	23988.1274		
	m3				
2e	Quantity of overburden	236835	141245.28		
	generation in m ³				
2f	General remarks of inspecting	Pit profiles are well maintair	ned. Approximately ber	nches in OB are	
	officer on development of pit	advanced about 15m w.r.t mineral benches. Topsoil generated was used for			
	w.r.t. type of deposit etc.	plantation.	•	-	

3.0 Exploitation

	pioitution			
SN	Item	Proposals	Actual work	Remarks
		(2023-24)	(2023-24)	
3a	Number of pits proposed for	One (Pit-3)	One (Pit-3)	
	production			
3b	Quantity of ROM mineral	300000	165189.84	
	production proposed in MT			
3c	Recovery of saleable/usable	300000	165189.84	
	mineral from ROM production in			
	MT			
3d	Quantity of mineral reject	No Proposal	Not Applicable	
	generation			
Зе	Grade of mineral reject	No Proposal	Not Applicable	

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	generation and threshold value declared					
ot .	Quantity of sub-grade mineral generation	No Propos	al	Not Applica	ble	
3f 3g	Grade of sub-grade mineral generation	No Propos	al	Not Applica	ble	
3h	Manual / Mechanised method adopted for segregating from ROM	No Propos	al	Not Applica	ble	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Propos	al	Not Applica	ble	
3j	Provision of drilling & blasting in mineral benches	No Propos	al	Not Applica	ble	
3k	Provision of mining machineries in mineral benches	Dozer, Du Excavator,	mper, Water tanker	Back hoe, fr loader, Doze Water tanke	er, Dumper,	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m in Min Overburde	eral & 3m in en	3m in Miner Overburden		
3m	Total area covered under excavation/pits in Ha	34.6391		22.578		
3n	Ore to OB ratio for the pit/mine during the year	1:1.266		1:1.16		
30	Total area put in use under different heads at the end of year	43.3811 ha	A	Already exp abandoned b (O-C) minin Area under p Ha Buildings, ro 2.562 Ha Reclaimed-r 15.644 ha Work done u PMCP: 4.08	oy opencast g: 17.167 pits: 5.411 pads etc.: ehabilitated:	
Зр	Production of ROM mineral	2019-20	424739	361452		
	during last five-year period, as applicable in MT	2020-21	422153	350911		
		2021-22	424316	277051		
		2022-23	300000	251128.96		
		2023-24	300000	165189.84		
3q	General remarks of inspecting officer on method of mining etc.	Mining op	erations were c	arried out dur	ing inspection as p	er plan.

officer on method of mining etc.

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
		(2023-24)	(2023-24)	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not Applicable	No Dumping work was proposed. Topsoil was proposed to use for plantation and OB for backfilling.
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Not Applicable	
4c	Number of dumps within lease area and outside lease area	No Proposal	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit	No Proposal	Not Applicable	
4e	Number of active & alive dumps	No Proposal	Not Applicable	
4f	Number of dead dumps	No Proposal	Not Applicable	
4g	Number of dumps stabilised	No Proposal	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Not Applicable	

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	4i	Length of Retaining wall or	No Proposal	Not Applicable	
		garland drain all along dump			
	4j	Number of settling ponds	No Proposal	Not Applicable	
	4k	Specific comments of inspecting officer	Top soil used for plantation and Overburden generated during the year were used for backfilling.		

5.0 Solid Waste Management-Backfilling

S	Item	Proposals	Actual work	Remarks
N		(2023-24)	(2023-24)	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Not Applicable	
5b	Area under backfilling of mined out area	3.6436 ha	For 2023-24- 4.089Ha Cumulative- 15.6436Ha	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)	52760 m ³	23988 m ³	Used for plantation
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling has been of Pit-2 is N21°23'51.9"		tfilling taken at

6.0 Progressive Mine Closure Plan

SN	Item	Proposals		
			Actual work	Remarks
		(2023-24)	(2023-24)	
6a	Whether Annual report on PMCP	Yes	Yes, for FY 2023-24	
	submitted on time and correctly -		Report submitted	
	Rule 26(2). Details should be		online, Dated: 24-06-	
	given in the format as given in		2024	
	Annexure-20.			
6b	Management of worked/mined		Area of plantation-2.5	
	out benches		На	
	i) Area available for rehabilitation	No Proposal		
	(ha)		1700 Plants	
	ii) Afforestation done (ha)			
	iii) No. of saplings planted during		Cumulative no. of	
	the year		plants- 14066	
	iv) Cumulative no. of plants		1	
	v) Any other specific			
	method of rehabilitation			
	vi) Cost incurred on watch & care			
	during the year			
6c	Compliance on reclamation and	Backfilling: 3.6436 Ha	Backfilling: 4.089 Ha	
	rehabilitation by backfilling			
	i) Voids available for backfilling		Cumulative	
	(L X B X D)		Backfilling: 15.644 Ha	
	ii) Void filled by waste/tailings			
	iii) Afforestation on the backfilled			
	area			
	iv) Rehabilitation by making			
	water reservoir			
	v) Any other specific means			
6d	Compliance of Rehabilitation of	No Proposal	Not Applicable	
	waste land within lease			
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation			
6e	Compliance of Environmental	Yes	YEs	
	monitoring (core zone & buffer			

	zone)	V 1331
6f	General remarks of inspecting officer on PMCP compliance & progressive	Backfilling has been done. Location of backfilling taken at Pit-2 is N21°23'51.9" & E073°04'50.9". Location of plantation taken is N21°23'56.3" & E073°04'58.4".

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
		(2023-24)	(2023-24)	
7a	ROM Mineral dispatch or gradewise sorting within lease area	300000 MT	165189.840 MT	•
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical Crushing	Mechanical Crushing	
7c	Different grade of mineral sorted out at mines	No Proposal	Not Applicable	
7d	Any beneficiation process at mines	No Proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No issue on mineral conservat crushing is done for sizing.	ion was found. Only ROM	I Mechanical

8.0 Environment

8.0 Eı	ıvironment			
SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	52760 cum	23988 cum	Yes, total 23988 cum top soil generated in 2023-24 is being used for spreading on backfilled area for plantation.
8b	Concurrent use or storage of topsoil	For plantation	For plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps 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.)	No Proposal	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done	-	2.5 Ha area (1700 plants) Cumulative no. of plants- 14066	2.5 Ha area (plants survived -1370 out of 1700 saplings planted)
8g	Survival rate		81%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling for dust emission control	Regular mobile water tanker/ sprinkler are being used for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Water sprinkling through water tanker was seen during inspection. Aesthetic beauty in and around mines area is good with more plantation done.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS		Remarks
11	Status of submission of Monthly and Annual returns	Monthly Return of January-2025 was submitted on 05-02-2025 and Annual return was submitted on 24-06-2024.		
S. N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks

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9b	Scrutiny of Annual return for			
	information on Mining	Mining Engineer: Mr Vinod Kumar Singh		
	Engineer, Geologist and	Geologist Ms Janki Desai		
	Manager			
9c	Scrutiny of Annual return on	Already exploited and abandoned by opencast (O-		
	land use pattern for area under	C) mining: 17.167		
	pits, reclaimed area, dumps	Area under pits: 5.411 Ha	No violation found	
	etc. in Ha	Buildings, roads etc.: 2.562 Ha		
		Reclaimed-rehabilitated: 15.644 ha		
		Work done under PMCP: 4.089 Ha		
9d	Scrutiny of Annual return on	1700 Plants		
	afforestation	orestation Survival rate- 81%		
9e	Scrutiny of Annual return on	Nil		
	mineral reject generation			
	(Grade & quantity)			
9f	Scrutiny of Annual return on	ROM O/S and C/S: NIL		
	ROM stock and/or graded ore	ROM Production: 165189.84 MT		
9g	Scrutiny of Annual return on	Sale value: NIL, Captive		
	sale value, Ex. Mine price &	EMP: Rs. 429.21 per tonne		
	production cost	Production cost: Rs. 429.21 per tonne		
9i	Scrutiny of Annual return on	Rs. 429594000		
	fixed assets			
9k	Scrutiny of Annual return on	Back hoe: 1.020 cum-01, Back hoe: 0.020 cum-		
mining machineries		01, Back hoe: 0.600 cum-02, front end loader:		
		2.100 cum-01, Dozer: 85.000 HP-01, Dumper:		
		25.000 Tonne-08, Water tanker: 12000 Litre-01		
		25.000 Tonne-08, Water tanker: 12000 Litre-01		

- 10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: No violation for the year 2022-23.
 - a) No violation was given during previous year inspection.
 - b) No violation was pointed out during current year inspection.
 - c) Self-assessment date of Star Rating by the Lessee is 26-06-2024. 5 Star was given by the Lessee. It has been validated and given 5 Star.
 - d) Drone data was submitted by the Lessee on 22-05-2024, it has been referred back. The Drone was resubmitted and found as per SOP.

Sanjaya Kumar Sahoo Junior Mining Geologist Indian Bureau of Mines