

MCDR INSPECTION REPORT

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GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Nakhada Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Shri Pushpender Gaur, RCOM
1(c)	Accompanying Mines Representatives	Shri. P.Muralimohan, Shri. Shashikanth Sharma, Ms.Kushboo
1(d)	Type of Inspection	Star Rating
1(e)	Date of Inspection	28/09/2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	77.8012, Non forest area.
3	Mine code	38GUJ08271
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5292/2011
5	Name of the lessee, Address, phone, email and fax number	M/S GHCL LTD , At & Post -Sutrapada, Dist:- Gir-Somnath-362275, 02876265377, 02876263480, mining@ghcl.co.in ,
6	Village	Nakhada
7	Taluka/Mandal	Veraval
8	District	Gir-Somnath
9	Pincode	362275
10	State	Gujarat
11	Post office	Sutrapada.
12	Nearest police station	Prabhas Patan
13	Nearest Railway station	Somnath
14	Date of Grant of Mining Lease	A & B Block: 11.08.1986, Transferred from GIIC to GHCL and registered on 24-01-1994. Date of amalgamation on 17-02-2006.
15	Date of Execution	A Block: 05.01.1987, B Block: 06-04-1987
16	Date of opening of Mine	05.01.1987
17	Date of first Renewal, if applicable and its period & expiry	NA
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	Expiry: 04-01-2037
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Raman Chopra, B-38 Institutional Area, Sector-1, Noida-201301(U.P), 120-2535335, rhopora@ghcl.co.in , 120-2535209, Date of appointment:- 7.05.2012

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Manish Kumar, GHCL LTD, At& Post -Sutrapada 9328849666, manishkumar@ghcl.co.in , 02876263480, Date of appointment:-6.02.2014
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri P.Murali Mohan, GHCL LTD, At& Post -Sutrapada, Dist.-Gir-Somnath, Gujarat-362275, 9099093070 muralimohan@ghcl.co.in , 02876263480, Date of appointment:-1.07.2011
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri P.Muralimohan , GHCL LTD, At& Post -Sutrapada , Dist.-Gir-Somnath, Gujarat-362275, 9099093070 muralimohan@ghcl.co.in , 02876263480, Date of appointment:-1.07.2011
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri R.K. Pathak
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	RMP; 684(4)(1)/MP-371/2021-22, dated- 08-02-2022 For 2022-23 to 2026-2027
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(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	A(OFM), Mechanised
30	Captive/Non Captive	Captive

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

2.0 Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	Not Applicable	Total area is already explored to G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Not Applicable	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Not Applicable	
1d	Balance area to be explored to	No Proposal	Not Applicable	

	bring Geological axis in 1 or 2			
1e	Balance reserves as on 1 st Apr 2024	UNFC Code: 111- 1059744 Tonne 121- 769042 Tonne		
1f	General remarks of inspecting officer on geology, exploration etc.	Total lease area has been explored in G1 level.		


2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Pit-2A, Pit-3, Pit-4, Pit-5, Pit-7, Pit-22, Pit-13, Two no.of benches.	Pit-2A(105x51 sq.m, Location in UTM: 657647.2, 2314083.5), Pit-3(170x25 sq.m, Location in UTM:657589.6, 2314221.2), Pit-4(117x102sq.m, Location in UTM:657502.4,231425 9.6), Pit-5(207x64 sq.m, Location in UTM:657447, 2314331), Pit-6(308x120 sq.m, Location in UTM:657494.7, 2314524.7), Pit-7(136x73 sq.m, Location in UTM: 657202.2,2314658.6), Pit-13(58x29 sq.m, Location in UTM: 656840.9, 2315596.7), Pit-22(210x56 sq.m, Location in UTM: 657238.4,2315421.2)	Pit Number-6 was not proposed for development in 2023-24; however, the leaseholder carried out production activities in Pit-6 (Location in UTM: 657612.6, 2314544.5), which violates the Rule 11(1) of the MCDR, 2017.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	Not Applicable	No topsoil, No overburden
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	No Proposal	Not Applicable	No topsoil
2e	Quantity of overburden generation in m3	No Proposal	Not Applicable	No overburden
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development was proposed in 7 pits but the lessee carried out the development in 08 pits. Pit Number-6 was not proposed for development in 2023-24; however, the leaseholder carried out production activities in Pit-6 (Location in UTM: 657612.6,		

	2314544.5), which violates the Rule 11(1) of the MCDR, 2017.
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3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	07	08 Pit-2A(105x51 sq.m, Location in UTM: 657647.2, 2314083.5), Pit-3(170x25 sq.m, Location in UTM:657589.6, 2314221.2), Pit- 4(117x102sq.m, Location in UTM:657502.4,2314259. 6), Pit-5(207x64 sq.m, Location in UTM:657447, 2314331), Pit-6(308x120 sq.m, Location in UTM:657494.7, 2314524.7), Pit- 7(136x73 sq.m, Location in UTM: 657202.2,2314658.6), Pit-13(58x29 sq.m, Location in UTM: 656840.9, 2315596.7), Pit-22(210x56 sq.m, Location in UTM: 657238.4,2315421.2)	Pit Number-6 was not proposed for production in 2023-24; however, the leaseholder carried out production activities in Pit-6 (Location in UTM: 657612.6, 2314544.5), which violates the Rule 11(1) of the MCDR, 2017.
3b	Quantity of ROM mineral production proposed	99188 Tonne	84446 Tonne	
3c	Recovery of saleable/usable mineral from ROM production	93237 Tonne	79757.87 Tonne	
3d	Quantity of mineral reject generation	5951 Tonne	Nil	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Not Applicable	
3f	Quantity of sub-grade mineral generation	5951 Tonne	Nil	Table 4.2.2.2 (Year-wise Opencast Development) of the approved Mining Plan indicated that 5,951 tonnes of undersized limestone was proposed out of a proposed ROM of 99,188 tonnes. However, based on the same recovery factor, the generated

				undersized limestone quantity would be 5,066.76 tonnes, which was not observed during the inspection, which violates the Rule 11(1) of the MCDR, 2017.
3g	Grade of sub-grade mineral generation	Undersize limestone below 25 mm size	Undersize limestone below 25 mm size	
3h	Manual / Mechanized method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beatification study proposed & carried out for sub-grade mineral and reject	No Proposal	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	No Proposal	Not Applicable	
3k	Provision of mining machines in mineral benches	Rock breaker Dumper	Dumper Truck Wheel Loader Hydraulic Shovel Rock Breaker	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m in mineral	5m	
3m	Total area covered under excavation/pits	21.44 Ha.	22.635 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	No OB
3o	Total area put in use under different heads at the end of year	Area under mining- 21.44 Ha Infrastructure- 0.1 Ha Roads- 2.1 Ha (Total area put to use 23.64)	Already exploited and abandoned by opencast (O-C) mining- 14.025 Ha Covered under current (O-C) Workings- 8.610 Ha Reclaimed-rehabilitated- 12.580 Ha Occupied by plant, buildings, residential, welfare buildings and roads-2.20 Ha Plantation- 3.406 Ha Work done under progressive mine closure plan during the year- 0.30 Ha	Area used under, abandoned by opencast (O-C) mining- 14.025 Ha and area covered under current (O-C) Workings- 8.610 Ha is greater than the total proposed area Put to be used under mining (21.44 Ha) in approved Review of Mining Plan in 2023-24. Which violates Rule 45(5)(c) rw 45(7) of MCDR 2017. 

3p	Production of ROM mineral during last five-year period, as applicable	Yr-2019-20 - 90528 Tonne Yr-2020-21 - 87460 Tonne Yr-2021-22 - 99850 Tonne Yr-2022-23 - 99834 Tonne Yr-2023-24 - 99188 Tonne	Yr-2019-20 - 87883 Tonne Yr-2020-21 - 86952 Tonne Yr-2021-22 - 88145 Tonne Yr-2022-23 - 83289 Tonne Yr-2023-24 - 84446 Tonne	
3q	General remarks of inspecting officer on method of mining etc.	Mining operation carried out by using shovel, Wheel loader, Rock Breaker and Dumper combinations at mineral benches.		

4.0 Solid Waste Management-Dumping


SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not Applicable	
4b	Location of topsoil, OB & mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active & alive dumps	Nil	Nil	
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	No Proposal	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Not Applicable	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	There is no OB/dump in lease area.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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	No Proposal	0.3 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Not Applicable	No topsoil
5d	Total area fully reclaimed & rehabilitated	11.98 Ha.	Nil	This is to be ascertained separately by the teams of officers.
5e	General remarks of inspecting officer on backfilling, reclamation etc			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	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	i) No Proposal ii) 0.3 iii) 200 iv) Nil v) NA vi) 30000	i) No Proposal ii) 0.3 iii) 210 iv) 4547 v) NA vi) 31568	There was a proposal to install 215 meters of fencing during 2023-24 (Coordinates: from 2315279N, 657169E to 2315358N, 657298E), but the lessee didn't carry out the fencing work. Which violates the Rule 11(1) of MCDR 20217.
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	No Proposal	Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha)	i) 200 ii) 0.30	i) 210 ii) 0.30	

	iii) Method of rehabilitation	iii) Plantation Survival rate-60%	iii)Plantation Survival rate-70%	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	As per proposal.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP work is satisfactory.		

7.0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Not applicable	Total ROM used in production.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Sized Limestone 25-100mm	Sized Limestone 25mm-100mm	
7d	Any beneficiation process at mines	No proposal	Not applicable.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no beneficiation issue at mines.		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil available	No top soil available	
8b	Concurrent use or storage of topsoil	No top soil available	No top soil available	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Mineral reject stack proposed.	Stacked as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not applicable.	

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 (Rule 41)	200	210	
8g	Survival rate	60%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around the mine area is satisfactory.		

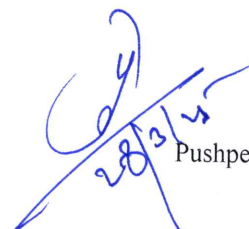
9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto - Aug-2024 A.R. submitted upto- 2023-24		The lessee reported used of 1,900 Ltrs. of diesel for production 84,446 tonnes of ROM; however, this figure prima facie indicates lower-than-expected fuel consumption relative to the production output.
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	Details furnished in the return	Shri P.Murali Mohan (Manager), Shri P.Muralimohan (Mining Engineer), Shri R.K. Pathak (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished in the return	Already exploited and abandoned by opencast (O-C) mining- 14.025 Ha Covered under current (O-C) Workings- 8.610 Ha Reclaimed-rehabilitated- 12.580 Ha Occupied by plant, buildings, residential, welfare buildings and roads-2.20 Ha Plantation- 3.406 Ha Work done under	Violation of Rule 45(5)(c) rw 45(7), Area used under, abandoned by opencast (O-C) mining- 14.025 Ha and area covered under current (O-C) Workings- 8.610 Ha is greater than the total proposed area Put to Use (21.44 Ha) in MP in 2023-24.

			progressive mine closure plan during the year- 0.30 Ha	
9d	Scrutiny of Annual return on afforestation	Details furnished in the return	210 no. of saplings planted during the year	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details furnished in the return	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished in the return	Chemical graded ore - 183.79 Tonne Cement graded ore - 11756 Tonne	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details furnished in the return	Ex. Mine price of chemical graded ore - 567.6 rupees/tonne Production cost-567.6 rupees/tonne	Captive mine.
9i	Scrutiny of Annual return on fixed assets	Details furnished in the return	650000/- rupees	
9k	Scrutiny of Annual return on mining machineries	Details furnished in the return	Dumper Truck Wheel Loader Hydraulic Shovel Rock Breaker	

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

- Violation was not given during previous year inspection.
- Violations of Rule 11(1), 34(A) and 45(5)(c) rw 45(7) are found during current year inspection.
- Self-assessment date of Star Rating was 29-06-2024. 3 Star was given by the Lessee. It has been validated and given 3 Star.
- The drone data has been submitted by the Lessee on 20-06-2024.


Pushpender gaur
RCOM