

MCDR REPORT

1.0 GENERAL

S. No.	Particulars	Details
1(a)	Name of the Mine	Bhimdeol limestone Mine
1(b)	Name of Inspecting Officer & Designation	Mohammad Nimar, Deputy. Controller of Mines, IBM, Gandhinagar
1(c)	Accompanying Mines Representatives	Sh. Vinod Kumar, Mine Manager Ms. Khushboo, Dy. Manager (Geology)
1(d)	Type of Inspection	Star Rating, MCDR
1(e)	Date of Inspection	16.07.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	56.3517Ha
3	Minecode	38GUJ08348
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5292/2011
5	Name of the lessee, Address, phone, email and fax number	GHCL LTD, Taluka-Sutrapada , Distt- Gir-Somnath-362275
6	Village	Sutrapada
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pincode	362275
10	State	Gujarat
11	Post office	Sutrapada
12	Nearest police station	Sutrapada
13	Nearest Railway station	Somnath
14	Date of Grant of Mining Lease	05.06.2007 for a period of 20 years
15	Date of Execution	15.09.2008
16	Date of opening of Mine	13.11.2009
17	Date of first Renewal, if applicable and its period & expiry	The validity of lease is up to 14-09-2058
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	Shri Raman Chopra, B-38, Institutional area, Sector-1, Noida-201301 (U.P.), r Chopra@ghcl.co.in , 91-120-2535335, 3358000 Date of Appointment-7.05.2012
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Manish Kumar , GHCL LTD , At& Post - Sutrapada , Distt-Gir-Somnath , Gujarat-362275 , 9328849666.manishkumar@ghcl.co.in , 02876263480, Date of Appointment:-06.02.2014

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Vinod Kumar , GHCL LTD , At& Post - Sutrapada ,Distt-Gir-Somnath ,Gujarat-362275 , 9099093139 , vinodkumar@ghcl.co.in , Date of Appointment:-02.12.2013
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Vinod Kumar, GHCL LTD, At& Post -Sutrapada, Distt-Gir-Somnath ,Gujarat-362275 , 9099093139 vinodkumar@ghcl.co.in B.E(Mining), Second Class competency certificate,Experience-18 years.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes (Ms. Khushboo)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-206/2019 dated 14-03-2019 for period of 2019-20 to 2023-24
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-206/2019 dated 14-03-2019 for period of 2019-20 to 2023-24
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)	Others
30	Captive/Non Captive	Captive

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

Exploration

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Not proposed	Not applicable.	
1b	Exploration over lease area for Geological axis 1 or 2.	38 holes (380 meters)	9 holes & 117 meter	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-----	Kinjal drilling corporation Rs. 473960.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	56.3517 Ha. Explored as G1
1e	Balance reserves as on	1046431 MT	1052125 MT	ROM is not

	01.04.2024			produced as per the proposals.
1f	General remarks of inspecting officer on geology, exploration etc.	There is difference between proposed figure and actual work carried out in exploration data. Violation under Rule 11(1) is being sent.		

2.0 Development

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	In pits 1 to 7	N23 ⁰ 18'90" E66 ⁰ 76'20"	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Top soil or overburden available.	No Top soil or overburden available so no separate benches in O.B or Topsoil.	
2c	Stripping ratio or ore to OB ratio	No OB in the area.	No OB in the area.	
2d	Quantity of topsoil generation in m ³	Not proposed	40 Cu.m.	Utilized for plantation.
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Negligible quantity of top soil removed and used for plantation purpose.		

3.0 Exploitation

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	Pit Nos. proposed for production (Pit no.-2,3,5,7)	N23 ⁰ 18'91" E66 ⁰ 76'22'	
3b	Quantity of ROM mineral production proposed	41813 MT	41056.138	
3c	Recovery of salable/usable mineral from ROM production	39290 MT	38592.770	
3d	Quantity of mineral reject generation	2523 MT	2463.368	
3e	Grade of mineral reject generation and threshold value declared	Sized Limestone +25mm to -100mm	Sized Limestone +25mm to -100mm	Mineral reject is on the basis of size mostly. MR Grade: CaCO ₃ < 88% SiO ₂ > 5.5% Size <(-25mm)
3f	Quantity of sub-grade mineral generation	Not proposed	Not applicable.	
3g	Grade of sub-grade mineral generation	Not proposed	Not applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not applicable.	
3j	Provision of drilling & blasting in mineral benches	No drilling & blasting have been proposed.	No drilling and blasting.	
3k	Provision of mining machineries in mineral benches	Rock breaker, Tipper	Rock breaker, Tipper	Rock breaker is attached with 1 cum bucket capacity (Backhoe)
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in overburden and mineral suitable for method of mining.	No O.B. In mineral benches width and depth of the benches are as per proposal. 3 m height and 3-4 m width.	
3m	Total area covered under excavation/pits	13.97Ha	11.97 Ha	
3n	Ore to OB ratio for the pit/ mine during the year	No OB	No OB	
3o	Total area put in use under different heads at the end of year	Total Excavation- 13.97Ha. Infrastructure & Road -2.34Ha	Total Excavation- 11.97 Ha. Infrastructure & Road - 2.34Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Year-Prod(MT) 19-20-41861MT 20-21 -41887MT 21-22 - 41954MT 22-23 - 41871MT 23-24-41813 MT	Year-Prod(MT) 19-20-38781 20-21 -38681 21-22- 40405 22-23 - 39824 23-24- 38592.77	
3q	General remarks of inspecting officer on method of mining etc.	Mining is being carried out with rock breaker attached with 1 cum bucket working as backhoe and dumper combination.		

4.0 Solid Waste Management-Dumping

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed	Not applicable	
4b	Location of topsoil, OB	Not proposed	Not applicable	

	& mineral reject dumps			
4c	Number of dumps within lease area and outside lease area	Not proposed	Not applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable	
4e	Number of active & alive dumps	Not proposed	Not applicable	
4f	Number of dead dumps	Not proposed	Not applicable	
4g	Number of dumps stabilised	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer	Negligible quantity of top soil and No over burden generated during the year.		

5.0 Solid Waste Management-Backfilling

S. No.	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	Not proposed	Not applicable	
5b	Area under backfilling of mined out area	Not proposed	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not applicable	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal of solid waste management and no work carried out.		

6.0 Progressive Mine Closure Plan

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be	Yes	Yes, submitted on 11-06-2024	

	given in the format as given in Annexure-20.			
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	Not proposed i) 0 ii) 0.40 iii) 200 iv) 2133 v) Not proposed	i) 0 ii) 0.40 Ha. iii) 275 iv) 2133 v) Nil vi) Rs. 25000 per year	
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	Not proposed	0.40Ha	Area reclaimed/rehabilitated by doing pit floor plantation .
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation- 200 ii) Area rehabilitated (ha) 0.40 iii) Method of rehabilitation- Plantation	i) Afforestation- 275 ii) Area rehabilitated (ha)- 0.40Ha. iii) Method of rehabilitation- Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of air, water & noise in core zone and buffer zone.	Quarterly by NABL accredited lab.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The worked related to PMCP is carried out as per the AMP. PMCP returns are submitted on time as per the provision of Rule 26 of MCDR 2017.		

7.0 Mineral Conservation

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed	Not applicable	
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 +25mm to -100mm	Sized Limestone +25mm to -100mm	
7d	Any beneficiation process at mines	Not proposed No Beneficiation proposed.	Not Applicable.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Sorting of +25mm to -100mm size is being done manually. The limestone beyond the said size is not utilised for captive consumption and it is being sold. No Mineral Conservation and Beneficiation issue reported.		

8.0 Environment

S. No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Separate removal and utilization of topsoil.	
8b	Concurrent use or storage of topsoil	Not proposed	40.00 Cu.m.	Utilized for plantation purpose in pit floor
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	0.40 Ha. Area reclaimed/rehabilitated.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200	275	
8g	Survival rate	60%	72.36%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done through water tanker.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines.	Plantation with fencing is being done near road and other safety zone. Mine is surrounded by nearby villages.
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9.0 Compliance of Rule 45

S. No.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	Monthly Returns upto July 2024 & Annual Returns up to 2023-24 submitted with stipulated time.	

S. No.	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, Geologist and Manager -1	Mining Engineer & Mine Manager – Shri Vinod Kumar Geologist – Ms Khushboo	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current O/C Workings - 11.970, Reclaimed-rehabilitated -1.900, Occupied by plant, buildings, residential, welfare buildings and roads - 2.340, Plantation - 3.050, progressive mine closure plan during the year 0.40	Covered under current O/C Workings - 11.970, Reclaimed-rehabilitated -1.900, Occupied by plant, buildings, residential, welfare buildings and roads - 2.340, Plantation - 3.050, progressive mine closure plan during the year 0.40	
9d	Scrutiny of Annual return on afforestation	275 no of plantation on 0.4 Ha	275 no of plantation on 0.4 Ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	41056 MT	Only 2463.368 MT generated during the year	Violation under Rule 45(5)(c) is being sent.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	12210.015 MT	12210.015 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price and cost of Production - Rs 589.70	Ex Mine Price and cost of Production - Rs 589.70	
9i	Scrutiny of Annual return on fixed assets	Rs 3039930/-	Rs 3039930/-	

9k	Scrutiny of Annual return on mining machineries	Wheel Loader 1.200 Cum - 1, Jeep/Tractor 42.000 Hp, Truck 20.000 Tonne-6	Rock breaker-cum backhoe- 1, Water tanker, Wheel Loader 1.200 Cum - 1, Jeep/Tractor 42.000 Hp, Truck 20.000 Tonne-6	
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - During last year no violation pointed out.

- 1) This year Violation of Rule 11(1), 45(5)(c) read with 45(7), 47 and 48 are pointed out. Violation cum Show Cause Notice has been issued on 19-08-2024 and the same has been complied on 03-10-2024.
- 2) Drone data of the mine has been found correct and processed on DDMS portal.