

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	Sh. Pushpender Gaur RCOM, IBM
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	03.08.2022
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
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	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	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 , 02876263480,6.02.2014
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 , 2.12.2013
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	Yes

I/7013/2023

	satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	
25	Date of Approval of Mining Plan/ Modified Mining Plan with five-year period and specific condition in approval letter, if any.	14.03.2019 , No any specific condition in approval letter. (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.	6.06.2014 , 2014-15 to 2018-19.
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)	Others
30	Captive/Non Captive	Captive

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

Exploration

S. No.	Item	Proposals (2021-2022)	Actual work (2021-2022)	Remarks
1a	Backlog of previous year	No Proposal	Not required	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Not required	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal of Exploration.	Not applicable	
1e	Balance reserves as on 01.04.2022	1133005MT	1133005MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration is yet to be completed as per Rule 12 (4). However the exploration of 36 borehole is proposed in year 23-24 in approved mining plan, as per ammended Rule 12(4).		

2.0 Development

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	No Proposal.	Not applicable.	
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. However benches as per proposal found max. 2 benches in general. At some places it is found with bench height 3m.	At some places it is 1 at some places, with 3m bench height.
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	As per proposal the area is devoid of topsoil in the area so there will be no generation of topsoil.	No topsoil has been generated in the area.	
2e	Quantity of overburden		Nil	

I/7013/2023

	generation in m3	Nil		
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Overall Layout of benches found in order, as per plan. Most of pits full-filled with water due to heavy rain in the monsoon (end of June 22).		

3.0 Exploitation

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	Pit Nos. proposed for production(Pit no.- 1,2,3,4,5,6,7)	Pit Nos. Worked for production (1,2,3,4,5,6,7)	
3b	Quantity of ROM mineral production proposed	41954MT	40405MT	
3c	Recovery of salable/usable mineral from ROM production	39437MT	37981MT	
3d	Quantity of mineral reject generation	2517MT	2424MT	
3e	Grade of mineral reject generation and threshold value declared	Sized Limestone +25mm to -100mm	Sized Limestone +25mm to -100mm	Mineral reject is done on the basis of size mostly. MR Grade: CaCO ₃ < 88% SiO ₂ > 5.5% Size <(-25mm)
3f	Quantity of sub-grade mineral generation	No proposal	Not applicable.	
3g	Grade of sub-grade mineral generation	No proposal	No generation	
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	No proposal	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	However, from the mineral conservation point of view a bucket attached to excavator is used individually for sizing and sweeping purpose.
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 so no bench in overburden. Bench in mineral suitable for mining proposed.	
3m	Total area covered under excavation/pits	14.07Ha	12.058Ha	
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	Pit-12.058 Ha Infrastructure & Road -2.34Ha	Pit-12.058 Ha Infrastructure & Road-2.34Ha	
3p	Production of ROM mineral during last five-year period, as	Year-Prod(MT) 17-18-166784	Year-Prod(MT) 17-18-41416	

I/7013/2023

	applicable	18-19-166731 19-20-41861 20-21 -41887 21-22 - 41954	18-19-36508 19-20-38781 20-21 -38681 21-22- 40405	
3q	General remarks of inspecting officer on method of mining etc.	Excavation found within limits of proposal. -Back filling found near office.and some Mineral reject in head found inside pit, advised to stack properly together.		

4.0 Solid Waste Management-Dumping

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not required	
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Not required	
4c	Number of dumps within lease area and outside lease area	No Proposal	Not required	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Not required	
4e	Number of active & alive dumps	No Proposal	Not required	
4f	Number of dead dumps	No Proposal	Not required	
4g	Number of dumps stabilised	No Proposal	Not required	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Not required	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Not required	
4j	Number of settling ponds	No Proposal	Not required	
4k	Specific comments of inspecting officer	NA		

5.0 Solid Waste Management-Backfilling

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Not required	
5b	Area under backfilling of mined out area	No Proposal	Backfilling is done in 1.70 Ha for reclamation point of view.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Not required	
5d	Total area fully reclaimed & rehabilitated	No Proposal	1.7 Ha.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Although no proposal for backfilling was there, however some under size reject found back filled, near office premises for development of eco park and the plantation activities were carried out.		

6.0 Progressive Mine Closure Plan

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details	Yes	Yes	

I/7013/2023

	should be 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	No Proposal		i) 4.03 Ha. ii) 1.7 Ha. iii) 295 iv) 800 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	No Proposal	<table border="1"> <thead> <tr> <th colspan="5">i) Voids available for backfilling</th> </tr> <tr> <th>Pit No</th> <th>L</th> <th>B</th> <th>D</th> <th>Area (Ha.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>180</td> <td>129.44</td> <td>3.00</td> <td>2.3300</td> </tr> <tr> <td>6</td> <td>135</td> <td>63.15</td> <td>5.00</td> <td>0.8525</td> </tr> <tr> <td>3</td> <td>105</td> <td>61.67</td> <td>3.00</td> <td>0.6475</td> </tr> <tr> <td>2</td> <td>60</td> <td>33.33</td> <td>4.00</td> <td>0.2000</td> </tr> <tr> <td colspan="4">Total</td> <td>4.03</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="5">ii) Voids filled by waste in Bhimdeol</th> </tr> <tr> <th>Pit No</th> <th>L</th> <th>B</th> <th>D</th> <th>Area (Hl)</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>135</td> <td>63.15</td> <td>0.50</td> <td>0.9525</td> </tr> <tr> <td>3</td> <td>105</td> <td>61.67</td> <td>0.50</td> <td>0.7475</td> </tr> <tr> <td>2</td> <td>60</td> <td>33.33</td> <td>3.00</td> <td>0.2000</td> </tr> <tr> <td colspan="4">Total</td> <td>1.70</td> </tr> </tbody> </table>	i) Voids available for backfilling					Pit No	L	B	D	Area (Ha.)	1	180	129.44	3.00	2.3300	6	135	63.15	5.00	0.8525	3	105	61.67	3.00	0.6475	2	60	33.33	4.00	0.2000	Total				4.03	ii) Voids filled by waste in Bhimdeol					Pit No	L	B	D	Area (Hl)	6	135	63.15	0.50	0.9525	3	105	61.67	0.50	0.7475	2	60	33.33	3.00	0.2000	Total				1.70	iii) 1.7 Ha. iv) Nil v) Plantation
i) Voids available for backfilling																																																																					
Pit No	L	B	D	Area (Ha.)																																																																	
1	180	129.44	3.00	2.3300																																																																	
6	135	63.15	5.00	0.8525																																																																	
3	105	61.67	3.00	0.6475																																																																	
2	60	33.33	4.00	0.2000																																																																	
Total				4.03																																																																	
ii) Voids filled by waste in Bhimdeol																																																																					
Pit No	L	B	D	Area (Hl)																																																																	
6	135	63.15	0.50	0.9525																																																																	
3	105	61.67	0.50	0.7475																																																																	
2	60	33.33	3.00	0.2000																																																																	
Total				1.70																																																																	
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) - 0.4 iii) Method of rehabilitation-Plantation		i) Afforestation- 295 ii) Area rehabilitated (ha)- 3.05 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.		Air ,water & noise are monitored quarterly in core and buffer zone.																																																																	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Fencing, plantation proposed found implanted as above details. Reclamation @ Pit No. 2 as per enclosed sketch found under progress.																																																																			

7.0 Mineral Conservation

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Not applicable	

I/7013/2023

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	No Proposal No Beneficiation proposed.	Not required.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Found Satisfactory		

8.0 Environment

S. No.	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil.	Separate removal and utilization of topsoil.	
8b	Concurrent use or storage of topsoil	Concurrent Use	Concurrent Use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Not done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Overburden is not present, however, mineral reject is being stacked in the mines and is used for reclamation as and when required.	At Pit No. 2 reclamation found under progress
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Mined out pits are being reclaimed with plantation.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200	295	
8g	Survival rate	30%	63%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines.	Area is widespread with shallow depth mining, appears satisfactory.		

9.0 Compliance of Rule 45

S. No.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted up to till date A.R. submitted up to till date	

S.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
----	------	-----------------------	--------------------------	---------

I/7013/2023

No.				
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Found satisfactory	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Found satisfactory	
9d	Scrutiny of Annual return on afforestation		Found satisfactory	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		Found satisfactory	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Found satisfactory	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Found satisfactory	
9i	Scrutiny of Annual return on fixed assets		Found satisfactory	
9k	Scrutiny of Annual return on mining machineries		Fuel given 1426 liter, which is found abnormally on lesser side w.r.t.production of ROM, the correct information to be sent.	

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

In previous inspection dt. 11/03/2022, rule 55(1)(3)(1) found to be violated.

In this inspection, Rule 33 read with 31(4), 34A(1) read with rule 34A(5) and 45(7) found to be violated.