

MCDR REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Harnasa Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Darshan Deep Bhardwaj, Senior Asst. Controller of Mines
1(c)	Accompanying Mines Representatives	Mr. R.K. Pathak, Geologist
1(d)	Type of Inspection	Star Rating
1(e)	Date of Inspection	17.06.2021
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	141.8538
3	Minecode	38GUJ08155
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 Limited, AT+ Post- Sutrapada, Gir-Somnath, 362275, Gujarat
6	Village	Harnasa
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pincode	362275
10	State	Gujarat
11	Post office	Lati
12	Nearest police station	Sutrapada

13	Nearest Railway station	Somnath
14	Date of Grant of Mining Lease	9.12.1985
15	Date of Execution	15.04.1986
16	Date of opening of Mine	15.04.1986
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	05.04.2005
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Raman Chopra,B-38 Industrial Area, Sector-1, Noida-201301,U.P
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Manish Kumar, GHCL LTD , Sutrapada ,- 362275, Gir Somnath, 9328849666,manishkumar@ghcl.co.in,
22	Name of the Mines Manager with Address, phone, email,	Sri Devanand Roy, GHCL LTD, Sutrapada-362275 ,

	fax number and date of appointment in mines	Gir Somnath, 9099093088, devanandroy@ghcl.co.in 31.08.2009
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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Devanad Roy , B.E(Mining),FCC ,23 years,9099093088,devanandroy@ghcl.co.in Date of Appointment in mine-31.08.2009
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Full time Geologist not appointed and violation for same sent to lessee.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	25.04.2012
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	25.04.2012 , 2012-13 to 2016-17. No specific condition given in the approved scheme. Mining Plan- 4.01.2017,2017-18 to 2021-22
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)	Category -B , Manual

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

Exploration

SN	Item	Proposals (2020-21)	Actual work	Remarks
1a	Backlog of previous year	No backlog	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal given as the area is fully explored under G1.	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No balance Area.	NA	
1e	Balance reserves as on .01.04.2021	2056523MT Chemical grade	2028622MT Chemical grade	

1f	General remarks of inspecting officer on geology, exploration etc.	The area is fully explored to G-1 level and further exploration is not required at this stage.
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2.0 Development

SN	Item	Proposals(2020-21)	Actual work	Remarks
2a	Location of development w.r.t. lease area	No Proposal	NA	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal	NA	
2c	Stripping ratio or ore to OB ratio	No OB is present	NA	
2d	Quantity of topsoil generation in m3	Very thin layer of topsoil. Utilised in plantation	Utilised in Plantation.	
2e	Quantity of overburden generation in m3	NO OB generation	NA	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The area is devoid of topsoil in the area so there will be no generation of topsoil.		

3.0 Exploitation

SN	Item	Proposals (20-21)	Actual work	Remarks

3a	Number of pits proposed for production	7 pits, HA-1, HA-5, HB-2, HC-3,4 , HD-2, HE-3	Work done in all proposed pits.	
3b	Quantity of ROM mineral production proposed	195358MT	183607MT	
3c	Recovery of salable/usable mineral from ROM production	173869MT	172591MT	
3d	Quantity of mineral reject generation	11721	11016	
3e	Grade of mineral reject generation and threshold value declared	Chemical Grade	Chemical Grade	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Not required.	
3j	Provision of drilling & blasting in mineral benches	Proposal for Manual drilling and Blasting and Rock .	No Manual Drilling and blasting.	
3k	Provision of mining machineries in mineral benches	Tipper/Truck of capacity 10MT	Tipper/Truck of capacity 10MT	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There are no benches in O.B .	There are no benches in O.B .	
3m	Total area covered under excavation/pits	41.9404HA	41.9404HA(32.309-Pit + 9.64-Reclaimed)	
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-54.8404 Green belt-5.50	Pit-54.8404 Greenbelt-5.5 Infra.st-0.30 Road-3.4276	
3p	Production of ROM mineral during last five-year period, as applicable (in MT)	IstYr(16-17)-173390 IIndYr(17-18)-195382 IIIrdYr(18-19)- 195768 IVthYr(19-20)- 195071 Vth Yr(20-21) - 195358	IstYr-137251 IIndYr-156558 IIIrdYr-180862 IVthYr-183630 Vth Yr- 183607	
3q	General remarks of inspecting officer on method of mining etc.	The mining was carried out by using rock breaker and by combination of Shovel and dumpers.		

4.0 Solid Waste Management-Dumping - NA

SN	Item	Proposals (2020-21)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not Applicable as the there is no generation of soild waste in the mine and the limestone of	There is no solid waste generation in the mines as

			chemical grade is outcropping in nature. There are no dumps located as the entire chemical grade limestone is used in plant	the chemical grade limestone was outcropping.
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	-	
4c	Number of dumps within lease area and outside lease area	No Proposal	-	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	-	
4e	Number of active & alive dumps	No Proposal	-	
4f	Number of dead dumps	No Proposal	-	
4g	Number of dumps stabilised	No Proposal	-	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	-	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	-	
4j	Number of settling ponds	No Proposal	-	
4k	Specific comments of inspecting officer	There is no solid waste generation in the mines.		

5.0 Solid Waste Management-Backfilling -NA

SN	Item	Proposals (2020-21)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Partial	Partial	
5b	Area under backfilling of mined out area	No proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	NA	
5d	Total area fully reclaimed & rehabilitated	-	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area is reclaimed by plantation and agriculture is being practiced part of the reclaimed area.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2020-21)	Actual work	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.	PMCP Report submitted	PMCP Report submitted	
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	Plantation-500 Fencing-220m	Plantation-817 Fencing-300m	

	<p>plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch & care during the year</p>			
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	No proposal	Not done.	
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>Afforestation -500 plants</p> <p>ii) Area rehabilitated - 0.5(ha)</p> <p>iii) Method of rehabilitation - Plantation</p>	<p>Afforestation - 817 plants</p> <p>ii) Area rehabilitated - 0.6ha)</p> <p>iii) Method of rehabilitation - Plantation.</p>	

6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise , Water monitoring on Quaterly basis.	Air, Noise , Water monitoring on Quaterly basis.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report is submitted as per the schedule		

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal	Not done	Total ROM used in production of Soda Ash..
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	No proposal		
7d	Any beneficiation process at mines	No proposal. Only Mineral Sizing is done	Mineral Sizing is done at Mines.	

		at Mines.		
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The chemical grade limestone is being used in the soda ash plant.		

8.0 Environment

SN	Item	Proposals (2020-21)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Thin layer of topsoil if generated utilised in plantation.	
8b	Concurrent use or storage of topsoil	No Proposal	Thin layer of topsoil if generated utilised in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	No OB/Waste	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	No OB/Waste	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Done in one pit	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation -500	Plantation-817	
8g	Survival rate	50 to 55%	68%	
8h	Water sprinkling on roads to control airborne dust	Proposal given for water sprinkling on road.	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The area is having aesthetical beauty and agriculture is being practiced around the mining area.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date –May 2021 A.R. submitted up to till date- 19-20	

S. N.	Item	Details GIVEN in A.R	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details furnished in returns	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished in returns	Found in order	
9d	Scrutiny of Annual return on afforestation	Details furnished in returns	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details furnished in returns	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished in returns	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details furnished in returns	Found in order	
9i	Scrutiny of Annual	Details furnished in	Found in order	

	return on fixed assets	returns		
9k	Scrutiny of Annual return on mining machineries	Details furnished in returns	Found in order	

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

During inspection violation of Rule 19(1 & 2) and 55(1)(3)(i) found and sent to lessee for rectification of the same within stipulated time.

Darshan Deep Bhardwaj
Senior Asst. Controller of Mines

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