

MCDR INSPECTION REPORT

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar

Inspection date: 11.03.2019, Type of Inspection: Star rating/MCDR

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Harnasa Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	141.8538-Non-Forest land
3	Mine code	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, Gujarat-362275 Phone: 02876305564/305377, E mail: mining@ghcl.co.in , r Chopra@ghcl.co.in
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	Raman Chopra, B-38 Industrial Area, Sector-1, Noida-201301,U.P Date of appointment-05.05.2012
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Manish Kumar, GHCL LTD , Sutrapada ,- 362275, Gir Somnath, Ph no.9328849666, Email:manishkumar@ghcl.co.in Date of appointment-01.02.2014
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Devanand Roy, GHCL LTD, Sutrapada-362275 , Gir Somnath, Ph no.9099093088, E mail: devanandroy@ghcl.co.in Date of appointment-31.08.2009
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Devanand Roy, GHCL LTD, Sutrapada-362275 , Gir Somnath, Ph no.9099093088, E mail: devanandroy@ghcl.co.in Date of appointment-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.	Yes
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)	A(OFM)
30	Captive/Non Captive	Captive

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

Exploration

SN	Item	Proposals (2017-18)	Actual work	Remarks
1a	Backlog of previous year	No backlog	Nil	Mine is fully

1b	Exploration over lease area for Geological axis 1 or 2.	No proposal given as the area is fully explored under G1.	Nil	explored.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	-
1e	Balance reserves as on .01.04.2018 (in tonnes)	(111)-2595718 Chemical grade	(111)-2634542 Chemical grade	-
1f	General remarks of inspecting officer on geology, exploration etc.	Nil		

2.0 Development

SN	Item	Proposals (2017-18)	Actual work	Remarks
2a	Location of development w.r.t. lease area	No Proposal	Nil	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal	Nil	
2c	Stripping ratio or ore to OB ratio	No OB is present	Nil	
2d	Quantity of topsoil generation in m3	Very thin veneer of topsoil. Utilized in plantation	Utilized 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.	Nil		

3.0 Exploitation

SN	Item	Proposals (2017-18)	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 as proposed.	

3b	Quantity of ROM mineral production proposed	195382MT	156558MT	
3c	Recovery of salable/usable mineral from ROM production	173890MT	141522MT	
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral reject generation and threshold value declared	Undersize limestone	Undersize limestone	
3f	Quantity of sub-grade mineral generation	11723	15035	
3g	Grade of sub-grade mineral generation	NA	Nil	
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	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	34.1476HA	31.10HA	
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	Mining-34.14Ha Greenbelt-4Ha Infrastructure-2.52Ha Roads-1.2Ha	Mining-31.10H Greenbelt-4Ha Infrastructure-2.52Ha Roads-1.2Ha	
3p	Production of ROM mineral during last five-year period, as	(13-14)-173536	(13-14)-212367	

	applicable (in MT)	(13-14)-173536 (14-15)-173154 (15-16)-173245 (16-17)-173390 (17-18)-195382	(13-14)-212367 (14-15)-173200 (15-16)-129839 (16-17)-113256 (17-18)-156558	
3q	General remarks of inspecting officer on method of mining etc.	Nil		

4.0 Solid Waste Management-Dumping - NA

SN	Item	Proposals (2017-18)	Actual work	Remarks	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed	Nil	-	
4b	Location of topsoil, OB & mineral reject dumps			-	
4c	Number of dumps within lease area and outside lease area			-	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)			-	
4e	Number of active & alive dumps			-	
4f	Number of dead dumps			-	
4g	Number of dumps stabilised			-	
4h	Whether Retaining wall or garland drain all along dumps are there			-	
4i	Length of Retaining wall or garland drain all along dump			-	
4j	Number of settling ponds			-	
4k	Specific comments of inspecting officer			Nil	

5.0 Solid Waste Management-Backfilling -NA

SN	Item	Proposals (2017-18)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	18Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Nil		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	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.	Plantation-400 Fencing-234m	Plantation-700 Fencing-234m	Not submitted . Violation point out.
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 500	Nil 2.5 700 Nil Nil	

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 done.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation -400 plants ii) Area rehabilitated -0.4(ha)	i) Afforestation - 700 plants ii) Area rehabilitated - 1.2ha)	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise, Water monitoring on Quarterly basis.	Air, Noise, Water monitoring on Quarterly basis.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Violation under provision of rules 26(2), 33 & 45(7) pointed out on dt. 10.04.2019 for rectification.		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal	Size & grade as per plant requirement.	-
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	Chemical Grade and Cement Grade	

7d	Any beneficiation process at mines	No proposal. Only Mineral Sizing is done at Mines.	Mineral Sizing is done at Mines.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

8.0 Environment

SN	Item	Proposals (2017-18)	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)	500	Planted-700	
8g	Survival rate	50 to 55%	48%	
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	Nil
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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 - A.R. submitted up to till dte-		Submitted
S. N.	Item	Details given in A.R.(2017-18)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. Devanand Roy as Manager & as Mining Engineer, Mr. R K Pathak as Geologist.	Check & found in order.	During the inspection it was advised to mine representative to submit the AR & MR correctly in all respect per the guidelines in future.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Mining-31.10H Greenbelt-4Ha Infrastructure-2.52Ha Roads-1.2Ha	
9d	Scrutiny of Annual return on afforestation	Details given	2.5ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details given	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	156558	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details given	Chemical grade limestone Ex-mine price Rs. 498, Cost per tonne Rs. 498	
9i	Scrutiny of Annual return on fixed assets	Details given	Fixed Assets value- Rs. 974232860/	
9k	Scrutiny of Annual return	Details given	Tipper/Truck of	

	on mining machineries		capacity 10MT	
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

Violation under provision of rules 26(2), 33 & 45(7) pointed out on dt. 10.04.2019 for rectification. Validate point 81% against 81% point score.

Place Gandhinagarr

Name: Dr N. K. Mathur

Signature

Date 22-04-2019

Designation: AMG