

**MCDR INSPECTION REPORT****1.0 GENERAL**

SN	Particulars	Details
1 (a)	Name of the Mine	Harnasa Limestone Mine
1(b)	Name of Inspecting Officer	Sunil Kumar Sharma, Sr. ACOM
1(c)	Type of Inspection	MCDR
1(d)	Date of Inspection	19/04/2024
2.	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total ML area – 141.8538 Forest land - Non Forest land – 141.8538
3	Mine-code	<b>38GUJ08155</b>
4	IBM Registration Number under rule 45 of MCDR, 1988	<b>IBM/5292/2011</b>
5	Name of the lessee, Address, phone, email and fax number	GHCL Ltd.
6	Village	Harnasa
7	Taluka/Mandal	Sutrapada
8	District	Gir Somnath
9	Pin code	362275
10	State	Gujarat
11	Post office	Sutrapada
12	Nearest police station	Sutrapada
13	Nearest Railway station	Sutrapada
14	Date of Grant of Mining Lease	09.12.1985
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	29/10/2020, MCR/102/020/1585/G-66/4493/CHH-1 Period upto 14.04.2036, Date of Expiry: 14.04.2036
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Raman Chopra, B-38, Institutional Area, Sector-1, Noida 201301, Mobile No. 9811121750 Date of appointment: 07/05/2012, email: <a href="mailto:r chopra@ghcl.co.in">r chopra@ghcl.co.in</a>
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Manish Kumar, GHCL Ltd., Sutrapada, Gujarat Date of appointment:- 01/02/2014 <a href="mailto:manishkumar@ghcl.co.in">manishkumar@ghcl.co.in</a>
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Devanand Roy, GHCL Ltd. Sutrapada, Gujarat 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 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 Name of Geologist: Chandan Kumar Date of appointment:-01/09/2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	08/04/2022 (Review of mining plan) 684(4)(1)/MP-394(364)/2021-22 Period: 2022-23 to 2026-27
26	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	-
27	Mineral(s) granted in lease and proved for mining	Limestone

I/31850/2024

28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Semi mechanised
30	Captive/Non Captive	Captive

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

#### Exploration

SN	Item	Proposals (2023-24)	Actual work	Remarks
1a	Backlog of previous year	8 Bore holes, 40 meters	Nil	Violation observed under Rule 11(1).
1b	Exploration over lease area for Geological axis 1 or 2.	G1:93.91 Ha. G2: 47.94 Ha.	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	GHCL Ltd.	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	24 Ha.	Nil	-
1e	Balance reserves as on 31.03.2024 (in Mio. Metric Tonne)	111: 17,33,714 tonnes 121: 8,11,172 tonnes 211: 12,08,302 tonnes 221: 3,53,853 tonnes 332: 32,97,885 tonnes Total: 74,04,926 tonnes		-
1f	General remarks of inspecting officer on geology, exploration etc.	As per approved mining plan, 08 boreholes were proposed for exploration for the year 2023-24 but no drilling was carried out during the year. Therefore, violation of 11(1) is observed.		

#### 2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	HE1, HD1, HD2, 8A, 8C, 17, HB2, HB2A, HB3, HA1, HA4, 23A, HA2	HE1, HD1, HD2, 8A, 8C, 26, HB2A, HA1, HA4, HA2, HB3, HA1	Violation observed under 31(4).
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal	NA	-
2c	Stripping ratio or ore to OB ratio	No O/B, 1:0	No O/B, 1:0	-
2d	Quantity of topsoil generation in m <sup>3</sup>	670 m <sup>3</sup>	365 m <sup>3</sup> generated	Generated top soil is utilised for plantation in mined out pits.
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	Nil	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Pit no. 17 is not mentioned in updated plan. Whereas pit No. 26 mentioned in the updated plan but it is not proposed in the mining plan. Therefore, violation of Rule 31(4) observed that plan & sections are not updated for the quarter ending on 31 <sup>st</sup> March 2024.		

#### 3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	13 Pits (HE1, HD1, HD2, 8A, 8C, 17, HB2, HB2A, HB3, HA1, HA4, 23A, HA2)	12 Pits (HE1, HD1, HD2, 8A, 8C, 26, HB2A, HA1, HA4, HA2, HB3, HA1)	Violation observed under Rule 11(1), Mining working is carried out in pit No. 26, but it is not proposed in approved mining

I/31850/2024

				plan.
3b	Quantity of ROM mineral production proposed	241327 tonnes	134156 tonnes	-
3c	Recovery of saleable/usable mineral from ROM production	94%	94%	-
3d	Quantity of mineral reject generation	14480 tonnes	8050 tonnes	-
3e	Grade of mineral reject generation and threshold value declared	No proposal	NA	-
3f	Quantity of sub-grade mineral generation	No proposal	NA	-
3g	Grade of sub-grade mineral generation	No proposal	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	Manual and Mechanised	Segregation of undersize manually at bench	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	NA	-
3j	Provision of drilling & blasting in mineral benches	No proposal	NA	-
3k	Provision of mining machineries in mineral benches	Rock breaker:02 Tipper:12 No.	Rock breaker:02 Tipper:12 No.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the bench: 07 m	Height of the bench: 07 m	-
3m	Total area covered under excavation/pits	46.9907 Ha.	42 Hectare	-
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	-
3o	Total area put in use under different heads at the end of year	Working Pit: 46.99 Ha. Infrastructure 0.25 Ha Road- 3.43 Hectare	Working Pit: 42 Ha. Infrastructure 0.25 Ha Road- 3.43 Hectare	-
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 195071 t 2020-21: 195358 t 2021-22: 195945 t 2022-23: 241575 t 2023-24: 241327 t	2019-20: 183630 t 2020-21: 183603 t 2021-22: 191940 t 2022-23: 141021 t 2023-24: 134156 t	-
3q	General remarks of inspecting officer on method of mining etc.	Mining operation is being carried out by using rock breaker machine at face. ROM is segregated manually of +25mm Size and -25mm (undersize). The segregated size mineral is uploaded manually to the tippers. Violation observed under Rule 11(1), Mining working is carried out in pit No. 26, which is not proposed in approved mining plan.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	670 m <sup>3</sup> topsoil	365 m <sup>3</sup> generated.	Generated top soil is utilised for plantation in mined out pits.
4b	Location of topsoil, OB & mineral reject dumps	Pit No. HA4, 23A, HA2	Pit No. HA4, 23A, HA2	
4c	Number of dumps within lease area and outside lease area	No proposal	NA	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	NA	-
4e	Number of active & alive dumps	No proposal	NA	-
4f	Number of dead dumps	No proposal	NA	-
4g	Number of dumps stabilised	No proposal	NA	-

I/31850/2024

4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	NA	-
4i	Length of Retaining wall or garland drain all along dump	No proposal	NA	-
4j	Number of settling ponds	No proposal	NA	-
4k	Specific comments of inspecting officer	Generated top soil is utilised for plantation in mined out pits. There is no proposal of overburden and dumps as per approved mining plan. No overburden is generated during mining.		

### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	NA	-
5b	Area under backfilling of mined out area	No proposal	0.5 Ha.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	670 m <sup>3</sup>	365 m <sup>3</sup> generated	Generated top soil is utilised for plantation in mined out pits.
5d	Total area fully reclaimed & rehabilitated	30.87 Ha (upto 2023-24)	28.32 Ha. (upto 2023-24)	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Generated top soil is utilised for plantation in mined out pits. Coconut plants were planted in mined out pits.		

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	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.	Yes	Yes	-
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	0.84 Ha.	Nil	-
6c	Afforestation done (ha)	25.35Ha.	20 Hectare	-
6d	No. of saplings planted during the year	200 Plants	502 Plants 357 Plants survived	71% survived rate
6e	Cumulative no. of plants	5000 Plates	6928 Plates	-
6f	Any other specific method of rehabilitation	No proposal	Agriculture Crop Urad, Bazara, Mungfali, Wheat, Coconut	-
6g	Cost incurred on watch & care during the year	₹ 30,000/-	About ₹ 50,000/-	-
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	No proposal	NA	-
6i	ii) Void filled by waste/tailings	No Proposal	28.327 Hectare	-
6j	iii) Afforestation on the backfilled area	No proposal	NA	-
6k	iv) Rehabilitation by making water reservoir	No proposal	NA	-
6l	v) Any other specific means	No proposal	NA	-

I/31850/2024

6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	No proposal	NA	-
6n	ii) Area rehabilitated (ha)	30.87 Ha	28.327 Ha.	-
6o	iii) Method of rehabilitation	Coconut crops and Agriculture	Coconut crops and Agriculture	-
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring Air, Water, and Noise	Result is within permissible limit	-
6q	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report has submitted on time as per the provision of rule 26 of MCDR, 2017. Work for PMCP is satisfactory		

### **7.0 Mineral Conservation**

SN	Item	Proposals (2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2,26,085 tonnes	1,26,281.88 tonnes	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual sorting	-
7c	Different grade of mineral sorted out at mines	Chemical Grade sorting on the basis of physical size	+25 mm size limestone sorted about 94% of ROM	-
7d	Any beneficiation process at mines	No proposal	NA	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The chemical grade limestone is being used in own soda ash plant. The under size (-25mm) material is being staked separately.		

### **8.0 Environment**

SN	Item	Proposals (2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	670 m <sup>3</sup>	365 m <sup>3</sup> generated	Generated top soil is utilised for plantation in mined out pits.
8b	Concurrent use or storage of topsoil	Generated top soil is utilised for plantation in mined out pits	Generated top soil is utilised for plantation in mined out pits	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Stacking of mineral reject i.e. -25mm undersize mineral at HD2 pit	Stacking is not found at proposed location.	Violation of Rule 11(1) observed. The stacking of mineral reject is not found at proposed location.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	30.87 Ha (upto 2023-24)	Reclaimed- 28.37 Hectare Plantation- 20 Hectare	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	5000 plants cumulative	6928 Plants Cumulative	-
8g	Survival rate	80%	71%	-
8h	Water sprinkling on roads to control	Yes	Yes	-

I/31850/2024

	airborne dust		
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The aesthetic environment of lease area is good. Around mine area agriculture is being practiced. Violation of Rule 11(1) observed. The stacking of mineral reject is not found at proposed location.	

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
9a.	Status of submission of Online Monthly and Annual returns 2022-23	17/06/2023 of annual return 2022-23 March 2024 returns submitted on 02.04.2024	
S. N.	Item	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	27.827 Hectare	-
9d	Scrutiny of Annual return on afforestation	470 plants in 2022-23, Survival Rate 91%	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: 144021 Tonnes Chemical grade Limestone: 135868.850	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	593.91 Rs/tonnes (ASP)	-
9i	Scrutiny of Annual return on fixed assets	Building Industrial : ₹ 606050/- Plant and machinery: ₹ 428400/-	-
9k	Scrutiny of Annual return on mining machineries	Truck (10 tonnes): 10 No. Rock Breaker: 03 No.	-

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

नियम स.	पाए गए उल्लंघन की विस्तृत प्रकृति
11(1)	No holder of a mining lease shall commence or carry out mining operations in any area except in accordance with the mining plan approved, modified or reviewed by the Indian Bureau of Mines. In your case, mining operations are being carried out in violation of the following provisions of the approved mining plan vide this office letter no. 684(4)(1)/MP-394(364)/2021-22/GNR dated 08.04.2022: (i) According to point number 2.2.5.5 of the approved mining plan, 08 boreholes were proposed for exploration in the year 2023-24, but at the time of inspection it was found that the prescribed exploration was not carried out. (ii) According to point number 4.2.2.2 of the approved mining plan, Pit ID numbers are proposed for development/production. Mining operations are carried out in pit No. 26, but it is not proposed in approved mining plan. (iii) According to point number 4.7.4 and plate No.5B of the approved mining plan, area for stacking of mineral reject is proposed. The stacking of mineral reject is not found at proposed location.
31(4)	The plans and sections required under these rules shall be maintained up to date showing also the respective proposal of approved mining plan for various activities pertaining to that year, within three months in case of category 'A' mines as referred to in clause (a) of sub-rule (2) of rule 55, and within twelve months in the case of any other mine. In your case, respective plans and sections are not updated for the quarter ending on 31 <sup>st</sup> March 2024.

I/31850/2024

(सुनील कुमार शर्मा/ Sunil Kumar Sharma)  
वरिष्ठ सहायक खान नियंत्रक/ Senior Assistant Controller of Mines