

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Nakhada Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Pushpendra Gaur,Regional Controller of Mines Gandhnagar.
1(c)	Accompanying Mines Representatives	Sri. P. Muralimohan,Mine Manager Sri R.K.Pathak ,Sr. 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	77.8012 Hectrs. ( Non forest area.)
3	Mine code	38GUJ08271
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 , At & Post -Sutrapada, Dist:- Gir-Somnath-362275, 02876265377, 02876263480, <a href="mailto:mining@ghcl.co.in">mining@ghcl.co.in</a> ,
6	Village	Nakhada
7	Taluka/Mandal	Veraval
8	District	Gir-Somnath
9	Pincode	362275
10	State	Gujarat
11	Post office	Rampara
12	Nearest police station	Prabhas Patan
13	Nearest Railway station	Somnath
14	Date of Grant of Mining Lease	11.08.1986
15	Date of Execution	05.01.1987
16	Date of opening of Mine	05.01.1987
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	10.12.2005
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Raman Chopra, B-38 , Institutional Area, Sector-1, Noida-201301(U.P), 120-2535335, <a href="mailto:rchopora@ghcl.co.in">rchopora@ghcl.co.in</a> , 120-2535209, 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 9328849666, <a href="mailto:manishkumar@ghcl.co.in">manishkumar@ghcl.co.in</a> , 02876263480, Date of appointment:-6.02.2014
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	P.Muralimohan, GHCL LTD, At& Post -Sutrapada, Dist.- Gir-Somnath, Gujarat-362275, 9099093070 <a href="mailto:muralimohan@ghcl.co.in">muralimohan@ghcl.co.in</a> , 02876263480, Date of appointment:-1.07.2011
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	P.Muralimohan , GHCL LTD, At& Post -Sutrapada , Dist.- Gir-Somnath, Gujarat-362275, 9099093070 <a href="mailto:muralimohan@ghcl.co.in">muralimohan@ghcl.co.in</a> , 02876263480, Date of appointment:-1.07.2011
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties	Yes - Shri. R.K.Pathak - Full time Employment

	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.	28.06.1994 (1995-2000),M.P 5.02.2007(2007-2012),M.P 3.02.2017(2017-2022),M.P 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.	1.03.2002 (2002-2007),(SOM) 20.11.2012(2012-2017),(SOM)
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 No exploration Proposal for the year 2021-2022.**

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Not applicable	G1
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Not applicable	
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	Not applicable	
1e	Balance reserves as on 01.04.2022	1227479MT(Chem Grade) 769042(Cement. Grade)	1227479 MT(Chem Grade) 769042(Cement. Grade)	
1f	General remarks of inspecting officer on geology, exploration etc.	Mining is confined to chemical grade limestone only which is in general av. Depth 6m, (3m-9m).Below is the cement grade(1.5m to 3m) av. 2m.Lessee not intend to mine cement grade limestone as it can't be used for Captive purpose in Soda-Ash Plant.		

**2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area.	4,7	4,7	Pit 4 almost central Part of lease,Pit 7 in Northern Part.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No O.B in the area Top soil is very thin so no bench in the topsoil. Bench in mineral only.	No O.B in the area .Top soil is very thin so no bench in the topsoil. Bench in mineral only.	
2c	Stripping ratio or ore to OB ratio	No OB	No OB	

2d	Quantity of topsoil generation in m3	100	50	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	As per plan observed, As per data provided by Management.		

### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Pit no. 4&7	Pit no.4 & 7	
3b	Quantity of ROM mineral production proposed	88599 MT	88145 MT	
3c	Recovery of salable/usable mineral from ROM production	78853 MT	78454.08 MT	
3d	Quantity of mineral reject generation	5316 MT	5150 MT	
3e	Grade of mineral reject generation and threshold value declared	Under size limestone below 25 mm size	As per proposal	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	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	Already established	Not required	
3j	Provision of drilling & blasting in mineral benches	No Proposal	Not required	
3k	Provision of mining machineries in mineral benches	Rock breaker	Rock breaker	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	19.98 Ha	19.98 Ha	Active Pits are 8 Ha , and rest are in under reclamation.
3n	Ore to OB ratio for the pit/mine during the year	No Proposal	Not applicable.	
3o	Total area put in use under different heads at the end of year	Pit-19.98Ha Infrastructure-0.25Ha Road-2.25 Ha Total -22.48Ha	Pit-19.98 Infrastructure-0.25 Road-2.25 Ha Total -22.48 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2017-18 - 92176 MT Yr-2018-19 - 88639 MT Yr-2019-20 - 90528 MT Yr-2020-21 - 87460 MT Yr-2021-22 - 88599MT	Yr-2017-18 - 88464 MT Yr-2018-19 - 84400 MT Yr-2019-20 - 87883 MT Yr-2020-21 - 86952 MT Yr-2021-22 - 88145 MT	

3q	General remarks of inspecting officer on method of mining etc.	LA-77.8012 ha, Under Surrender-14.02ha, Recalaimed area- 11.9ha8,Active Pit-8ha.,Infrastructure-0.1ha , Roads-2.1ha ,River & Barrier- 7ha,Statutory Barrier-10.45Ha, Non-Mineralised Area- 10.05Ha, Virgin Area--14.0963.
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#### **4.0 Solid Waste Management-Dumping NA**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil Proposal for plantation	North of pit no-1,5,6	
4b	Location of topsoil, OB & mineral reject dumps	Top soil used in plantation	As per Proposal	Pit No- 21
4c	Number of dumps within lease area and outside lease area	No proposal	Not applicable.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable.	
4e	Number of active & alive dumps	No proposal	Not applicable.	
4f	Number of dead dumps	No proposal	Not applicable.	
4g	Number of dumps stabilised	No proposal	Not applicable.	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Not applicable.	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Not applicable.	
4j	Number of settling ponds	No proposal	Not applicable.	
4k	Specific comments of inspecting officer	NA		

#### **5.0 Solid Waste Management-Backfilling NA**

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Area is not fully extracted.	As per proposal.	
5b	Area under backfilling of mined out area	No proposal	Not applicable.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Topsoil used in plantation	As per proposal.	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral Reject as proposed used in worked out pit when it was spreaded in Pits and used for reclamation.		

#### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Yes	Yes , 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 plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No Proposal	D) 8ha ii) 2.5Ha iii)80 iv) 950 v) Agriculture Vi)Rs25000	
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	Details given in Annexure no-1. -	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	500 0.25h Plantation	520 0.25h Plantation Survival rate-55%	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	COMET CONSULTENCY, RAJKOT	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation on worked out pit like Pit no-1, 7A, 9,14 etc.		

### **7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Not applicable	Total ROM used in production.
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 25-100mm	Sized Limestone 25mm-100mm	
7d	Any beneficiation process at mines	No proposal	Not applicable.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Found Satisfactory		

### **8.0 Environment**

SN	Item	Proposals	Actual work	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	Rejects are stacked separately.	Rejects are stacked separately.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not applicable.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Not applicable.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500	520	
8g	Survival rate	-	75%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mineral Reject in form of Stack is 7000 to 8000 MT approx.		

### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
.	Status of submission of Monthly and Annual returns	M.R. Submitted upto - Feb- 2022 A.R. submitted upto- 2020-21		
S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details furnished in the return	Found Satisfactory	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished in the return	Found Satisfactory	
9d	Scrutiny of Annual return on afforestation	Details furnished in the return	Found Satisfactory	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details furnished in the return	Found Satisfactory	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished in the return	Found Satisfactory	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details furnished in the return	Found Satisfactory	
9i	Scrutiny of Annual return on fixed assets	Details furnished in the return	Found Satisfactory	
9k	Scrutiny of Annual return on mining machineries	Details furnished in the return	Found Satisfactory	

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

Previous inspection dt. 09/03/2022, Rule 45(7) and 55(1)(3)(1) found to be violated.

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