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SN	Particulars	Details
1(a)	Name of the Mine	Harnasa Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Mohammad Nimar, Deputy Controller of Mines.
1(c)	Accompanying Mines Representatives	Chandan Kumar, Geologist
1(d)	Type of Inspection	MCDR Inspection & Evaluation of Star Rating Template for year 2022-23
1(e)	Date of Inspection	05.12.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area-141.8538 Ha, Forest Land -0Ha,
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	14.04.2036
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are	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 Mobile No.- 9811121750
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, Mobile No.- 9328849666 E mail-manishkumar@ghcl.co.in,

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22	Name of the Mines Manager with Address, phone, email, fax number and	Sri Devanand Roy, GHCL LTD,
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1.0 GENERAL

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 , ,9099093088,devanandroy@ghcl.co.in B.E(Mining),FCC ,Experience-23 years GHCL Limited, AT+ Post-Sutrapada, Gir-Somnath,362275, 9099093088,devanandroy@ghcl.co.in 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.	Date of Approval-08.04.2022 Mining Plan Period -2022-23 to
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Date of Approval-08.04.2022 Mining Plan Period -2022-23 to 2026-27.
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)	Category - Mechanised
30	Captive/Non Captive	Captive

Is of approved mining plan/scheme of mining. –

Exploration

SN	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year	Not proposed	Not applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Not applicable	

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1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	Not applicable	
1(d)	Balance Area to be explored to bring Geological axis 1 to 2	Nil	Not applicable	
1e	Balance reserves(111) as on 31.03.2023	2437467	2535021.00 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	No Exploration work carried out in 2022-23. Area has been explored in G1 Category..		

2.0 Development

SN	Item	Proposals(2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	No Proposal	As proposed no work done.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal	No OB Present. Very thin layer of top soil exists that too uniformity is not there	
2c	Stripping ratio or ore to OB ratio	No OB	Not applicable	
2d	Quantity of topsoil generation in m3	Very thin veneer of topsoil. Utilised in plantation	Utilised in Plantation.	
2e	Quantity of overburden generation in m3	NO OB generation	As proposed no OB generated	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of Pit is as per proposal .		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	HD1,HD2,8A,8C,17,HB2,HB2A,HB3,HA1,HA4,23A,HA2	As reported, Work done in all proposed pits.	
3b	Quantity of ROM mineral production proposed	241575MT	144021MT	due to less plant demand

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3c	Recovery of salable/usable mineral from ROM production	227080MT	135868.850MT	
3d	Quantity of mineral reject generation	14495MT	8152.15MT	Less production
3e	Grade of mineral reject generation and threshold value declared	Chemical Grade	Chemical Grade	
3f	Quantity of sub-grade mineral generation	None	No sub-grade mineral generated	
3g	Grade of sub-grade mineral generation	None	No sub-grade mineral generated	
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 applicable	
3j	Provision of drilling & blasting in mineral benches	No Proposal	Not applicable	
3k	Provision of mining machineries in mineral benches	Tipper/Truck of capacity 10MT/Rock Breaker	Tipper/Truck of capacity 10MT/Rock Breaker	
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	45.7907HA	45.7907HA	
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-45.7907 Infra-0.25 Road -3.43	Pit-45.7907 Infra.st-0.25 Road-3.43	
3p	Production of ROM mineral during last five-year period, as applicable (in MT)	2018-19- 195768MT	178307MT	
		2019-20 - 195071MT	183630MT	
		2020-21 - 195358MT	183603MT	
		2021-22 - 195945MT	181269 MT	
		2022-23 - 241575 MT	144021 MT	
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is open cast without drilling & blasting with the help of Rock breaker.		

4.0 Solid Waste Management-Dumping - NA

SN	Item	Proposals (2022-23)	Actual work	Remarks
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4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes,0.19 H	None	
4b	Location of topsoil, OB & mineral reject dumps	Pit HD-2	Pit HD-2	
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	work carried out of solid waste management is as per the proposal		

5.0 Solid Waste Management-Backfilling -NA

SN	Item	Proposals (2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not applicable	
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)	No proposal	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No work carried out against backfilling & reclamation.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	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 to be submitted in time.	PMCP report submitted on 17.06.2023	
			Plantation-428	
			Fencing-230m	

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6b	Management of worked/mined out benches	No proposal	As reported no work carried out
	i) Area available for rehabilitation (ha)	No proposal	As reported no work carried out
	ii) Afforestation done (ha)	0.5	1.0
	iii) No. of saplings planted during the year	200	428
	iv) Cumulative no. of plants		
	v) Any other specific method of rehabilitation	No proposal	Not Applicable
	vi) Cost incurred on watch & care during the year		
6c	Compliance on reclamation and rehabilitation by backfilling	No proposal	Not Applicable
	i) Voids available for backfilling (L X B X D)	No proposal	Not Applicable
	ii) Void filled by waste/tailings	No proposal	Not Applicable
	iii) Afforestation on the backfilled area	No proposal	Not Applicable
	iv) Rehabilitation by making water reservoir	No proposal	Not Applicable
	v) Any other specific means	No proposal	Not Applicable

6d	Compliance of Rehabilitation of waste land within lease		
	i) Afforestation	i) Afforestation -200 plants	Afforestation -428 plants
	ii) Area rehabilitated (ha)	ii) Area rehabilitated -0.5ha	1.0 ha
	iii) Method of rehabilitation	iii) Method of rehabilitation - Plantation	Plantation
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	As reported PMCP compliances for the year 2022-23 has been completed as per proposal.	

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Total ROM to be despatched	Total ROM is being despatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Not Applicable	
7c	Different grade of mineral sorted out at mines	No proposal	Not Applicable	

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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	No Mineral Conservation and Beneficiation issue reported.		

8.0 Environment

SN	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Thin layer of topsoil generated utilised in plantation.	
8b	Concurrent use or storage of topsoil	425MT	880MT	Utilized 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	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation -200	Plantation-428	
8g	Survival rate	60%	91%	
8h	Water sprinkling on roads to control airborne dust	Proposal given for water sprinkling on road.	Dust suppression done by using water tankers.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Lease area is surrounded by villages with moderate to little vegetation.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
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	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date - Yes A.R. submitted up to till date- Yes	A. R submitted on 17.06.2023, M.R. for Nov'23 submitted on 08.12.2023	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Sri Devanad Roy, Geologist - Chandan Kumar	Mining Engineer - Sri Devanad Roy, Geologist - Chandan Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Pits – 16.420 Ha.	Area under Pits – 16.420 Ha.	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year – 470 within lease area)	Number of trees planted during the year – 470 within lease area)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- 0	ROM stock- 0	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price – 593.91 Cost of Production- 593.91	Ex-mine price – 593.91 Cost of Production- 593.91	Captive consumption
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs.)1034450	Value of Fixed Assets (in Rs.)1034450	
9k	Scrutiny of Annual return on mining machineries	Truck(10T)-10 Nos, Excavator(1.8CuM) -3	Truck(10T)-10 Nos, Excavator(1.8CuM) -3	

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

- 1 During scrutiny of annual return it was found that ROM quantity of 144021 MT produced & Gradewise production of 135868.850MT submitted in the Return. However remaining quantity of 8152.15 MT not showed in Subgrade-Mineral Reject column.
- 2 Royalty paid for the dispatch is less than that of prescribed rate of Royalty per Ton.

11 Verification of Star Rating template done. The Mine awarded with four star rating as self assessed.

Mohammad Nimar
Deputy Controller of Mines
Indian bureau of Mines
Gandhinagar Region