File no: GUJ/JUNA/ LST-228

MCDR INSPECTION REPORT

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

Inspection date: 12.03.2019, Type of Inspection: Star rating/MCDR

1.0 **GENERAL**

SN	Particulars	Details
1	Name of the Mine	Sutrapada "C" Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	71.4019Ha (Non forest land)
3	Mine code	**38GUJ08272**
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, Village-Sutrapada, Taluka-Sutrapada, Distt-Gir Somnath-36362275, E mail: rkpathak@ghcl.co.in , Fax no- 02876263480
6	Village	Sutrapada
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	Somnath
14	Date of Grant of Mining Lease	30.09.1996
15	Date of Execution	18.09.1998
16	Date of opening of Mine	8.07.2000
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	NA
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.) rchopra@ghcl.co.in ,7.05.2012
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Manish Kumar, GHCL Ltd, Sutrapada .932884966, 02876263480, 1.02.2014.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Ashwani Kumar, GHCL LTD ,Sutrapada ,9099061556 ,1.10.2014
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Ashwani Kumar, B.E(Mining) , 23 years,GHCL LTD ,Sutrapada ,9099061556 ,1.10.2014
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.	1.05.1996, No any specific Condition.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	12.02.2013, No any specific Condition.
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)	Manual
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 (2017-18)	Remarks
1a	Backlog of previous year	No Backlog	Nil	

1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	By Company's technical persons.	By Company's technical persons.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No balance area	No balance area	
1e	Balance reserves as on 01.04.2018	394357MT	516375MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Nil		

2.0 Development

SN	Item	Proposals (2017-18)	Actual work (20171-18)	Remarks
2a	Location of development w.r.t. lease area	No Proposal	No Proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	No Proposal	
2c	Stripping ratio or ore to OB ratio	No OB	No OB	
2d	Quantity of topsoil generation in m3	No topsoil generation	No topsoil generation	
2e	Quantity of overburden generation in m3	No OB	No OB	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil		

3.0 Exploitation

SN	Item			
3a	Number of pits proposed for production	Pit 4,6 & 13	Pit 4,6 & 13	
3b	Quantity of ROM mineral production proposed	45047MT	27214MT	
3c	Recovery of salable/usable mineral from ROM production	40000MT	24298MT	
3d	Quantity of mineral reject generation	2697MT	2916MT	

3e	Grade of mineral reject generation and threshold value declared	Chemical Grade,91% $CaCO_3$	Chemical Grade,91% $CaCO_3$	
3f	Quantity of sub-grade mineral generation	No Proposal	No Proposal	
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	No Beneficiation done.	
3j	Provision of drilling & blasting in mineral benches	Jackhammer drilling & short hole blasting.	Hand hole drilling & Blasting.	
3k	Provision of mining machineries in mineral benches	Tipper-2 Drill Machine- 1 Compressor-1	Tipper -2	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There are benches in mineral only	There are benches in mineral only and suitable for method of mining Proposed in SOM.	
3m	Total area covered under excavation/pits	34.18Ha	33.00Ha	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
3o	Total area put in use under different heads at the end of year	O/C working-34.18Ha Plantation-2.68Ha Road-2.4Ha	O/C working-33Ha Reclaimed/ Rehabilitated-4.84 , Road-2.4Ha Plantation-2.68Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in tonnes)	(2013-14)- (2014-15)- (2015-16)-44957 (2016-17)-44813 (2017-18)-45047	(2013-14)-24769 (2014-15)-25001 (2015-16)-34711 (2016-17)-30915 (2017-18)-27214	

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 stabilished			
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

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	Reclamation done after full extraction of mineral from mined out area.	
5b	Area under backfilling of mined out area	No Proposal	35.1419Ha area reclaimed.	

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	4.84Ha	
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.	Yes	Yes	Not submitted. Violation point out.
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	No Proposal	Nil	
	ii) Afforestation done (ha)			
	iii) No. of saplings planted during the year	400	410	
	iv) Cumulative no. of plants			
	v) Any other specific method of rehabilitation	Not proposed	Nil	
	vi) Cost incurred on watch & care during the year	Not proposed	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling	No Proposal	Nil	
	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			

	(Fencing)			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	NIL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental Monitoring proposed.	Environmental Monitoring done as proposed.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Violation under provision of rules 26(2), 33 & 45(5) (c) pointed out on dt. 01.04.2019 for rectification.		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sized material to be dispatched	Sized material dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal of grade-wise sorting. Limestonewill be sized manually.	Manual sizing of limestone.	
7c	Different grade of mineral sorted out at mines	No Proposal	Chemical Grade and Cement Grade	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	Removal & concurrent use of Top Soil	Removal & concurrent use of Top Soil	
8b	Concurrent use or storage of topsoil	Concurrent Use of Top Soil.	Concurrent Use of Top Soil.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Rejects (Undersize) will be stacked on the worked out pit floor.	Rejects (Undersize) stacked on the worked out pit floor	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No Proposal.	Done as per requirement.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No of Plants-400	Planted-410	
8g	Survival rate	80%	59%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling done to control airborne dust,	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Nil		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Annual & Monthly submitted regularly on time.		
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	Mr. Ashwani Kumar as Manager & as Mining Engineer, Mr.	Check & found in order.	During the inspection it

	Manager	R K Pathak as Geologist.		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	O/C working-33Ha Reclaimed/ Rehabilitated-4.84 , Road-2.4Ha Plantation-2.68Ha	
9d	Scrutiny of Annual return on afforestation	Details given	6.10ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details given	2916 tonnes	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	27214 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details given	Chemical grade limestone Ex-mine price Rs. 565, Cost per tonne Rs. 565	
9i	Scrutiny of Annual return on fixed assets	Details given	Fixed Assets value-Rs. 974232860/	
9k	Scrutiny of Annual return on mining machineries	Details given	Tipper -2 Water tanker-2	

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(5) (c) pointed out on dt. 01.04.2019 for rectification. Validate point 80% against 82% point score.

Place Gandhinagarr Name: Dr N. K. Mathur Signature

Date 25-04-2019 Designation: AMG