

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Sutrapada Limestone Mine (Block-E)
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. R.K. Pathak (Geologist) & Mines Surveyor
1(d)	Type of Inspection	Final Mine Closure Plan
1(e)	Date of Inspection	30.07.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	24.738Ha, Non-forest.
3	Mine Code	38GUJ08303
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5292/11
5	Name of the lessee, Address, phone, email and fax number	GHCL LIMITED, At & Post- Sutrapada, Dist.-Gir-Somnath, Pin Code-362275, Gujarat. mining@ghcl.co.in.
6	Village	Sutrapada
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pincode	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	01.01.1998
15	Date of Execution	18.01.1999
16	Date of opening of Mine	18.01.1999
17	Date of first Renewal, if applicable and its period & expiry	-
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	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Raman Chopra, B-38, Institutional area, Sector-1, Noida-201301 (U.P.) ,rchopra@ghcl.co.in, mobile no. 09811121750 ,Phone No.- 91-120-2535335, 3358000 ,Fax no- 91-120-2535209, 3358102 Date of Appointment - 07.05.2012
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Manish Kumar , GHCL Ltd, Sutrapada . Mobile No. 9328849666, Land line :- 02876263480, Date of Appointment -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 , Date of Appointment -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, GHCL LTD ,Sutrapada ,9099061556 , Total Experience -23years, Date of Appointment -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.	Mining Plan was approved vide letter No-682(23)(814)/1998 MCCM (N)UDP 30.03.1998, 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.	Last approved Scheme of Mining approved vide letter no-682(23)(MS-426)/2008MCCM (N)UDP 17.07.2013 , No any specific condition.
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)	Manual
30	Captive/Non Captive	Captive

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

1.0 Exploration

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	No backlog	-	
1b	Exploration over lease area for Geological axis 1 or 2.	Six Prospecting Pits of Dimension 3m X3m x 3m	16 nos of borehole at pit bottom.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	By company's drilling crew.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2018	Reserves (Tonnes) Proved(111)-: 258572 Probable-Nil Resources-472095(Proposals as per approved MS)	Reserves-Tonne Proved(111)-Nil Probable-Nil Resources-472095	
1f	General remarks of inspecting officer on geology, exploration etc.	Area explored as per the provisions of MEMC Rules, 2015 & same were pointed while issuing the ROMP scrutiny.		

2.0 Development

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	Proposed in Pit No-4 & 6 of bench mRL as 7.0 & 8.0m	Mine working done in Pit no.3,4&6.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	NA	
2c	Stripping ratio or ore to OB ratio	No Proposal	Nil	
2d	Quantity of topsoil generation in m3	No Proposal	Nil	
2e	Quantity of overburden generation in m3	No Proposal	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No over burden OB) encountered in the lease area.		

3.0 Exploitation/Excavation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	Proposed in Pit no.3 ,4 &6	Actual working carried out in Pit no.3 ,4 &6	
3b	Quantity of ROM mineral production proposed	33750 MT	15800 MT	
3c	Recovery of salable/usable mineral from ROM production	30038 MT	14062 MT	
3d	Quantity of mineral reject generation	1802 MT	844 MT	
3e	Grade of mineral reject generation and threshold value declared	Mostly undersized cement grade	Mostly undersized cement grade	
3f	Quantity of sub-grade mineral generation	Undersized cement grade limestone	Undersized cement grade limestone	
3g	Grade of sub-grade mineral generation	No Proposal	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Manual Method	Manual Method	
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	Hole Dia-32mm,spacing - 1.3m,burden-1m,	Same as per proposal (shall hole drilling and blasting)	
3k	Provision of mining machineries in mineral benches	Tippers-10Tonnes Jack Hammer-450cfm	Tippers-10Tonnes Jack Hammer-450cfm	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No overburden so no bench in O.B. Height of benches in mineral suitable for mining proposed in MP/SOM	No overburden so no bench in O.B. Height of benches in mineral suitable for mining proposed in MP/SOM	
3m	Total area covered under excavation/pits	4.980 Ha	Most of the mined out pits area reclaimed & rehabilitated	
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	Nil	
3o	Total area put in use under different heads at the end of year	Pit-17.77 Ha Roads-1.20 Green belt-1.15 Total 17.77Ha reclaimed & rehabilitated	Pit-17.77 Ha Roads-1.20 Green belt-1.15 Total 17.77Ha reclaimed & rehabilitated	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2013-14:-33745 Yr-2014-15:-33732 Yr-2015-16:-33786 Yr-2016-17:-33813 Yr- 2017-18:-33750	Yr-2013-14:-19881 Yr-2014-15:-26049 Yr-2015-16:-20796 Yr-2016-17:-4452 Yr- 2017-18:-1580	
3q	General remarks of inspecting officer on method of mining etc.	Most of the mining lease area has been exhausted and mined out pits have been reclaimed & rehabilitated		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	No OB in area, separate stacking of undersize limestone was practiced.	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	No OB dump in ML area	
4c	Number of dumps within lease area and outside lease area	Not Proposed	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil	
4e	Number of active & alive dumps	Not Proposed	Nil	
4f	Number of dead dumps	Not Proposed	Nil	
4g	Number of dumps stabilized	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer	Shallow depth chemical grade limestone deposit with minor top OB soil without any inter-burden overburden.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Shallow depth mineralization pit backfilled after complete mineral exhaustion.	
5b	Area under backfilling of mined out area	No Proposal	Most of the excavated & mineral exhausted areas have been backfilled.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Concurrent use of topsoil for plantation purpose	
5d	Total area fully reclaimed & rehabilitated	No Proposal	Most of the excavated & mineral exhausted areas have been backfilled.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Shallow depth chemical grade limestone deposit with minor top OB soil without any inter-burden overburden.		

6.0 Progressive Mine Closure Plan-

SN	Item	Proposals (2017-18)	Actual work (2017-18)	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.	To be submitted every year in stipulated time	Not submitted	This shallow depth deposit & not required any management of workout benches
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 Proposals	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 Proposals	Nil	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation-100 ii) Area rehabilitated (ha)-0.1 iii) Method of rehabilitation-Afforestation	i) Afforestation-123 ii) Area rehabilitated (ha)-0.25 iii) Method of rehabilitation-Pit floor cultivation & Afforestation.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Env. Monitoring proposed in core as well as buffer zone	Not done	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

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	33750 MT	15800 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Grade-wise mineral sorting by manual means	
7c	Different grade of mineral sorted out at mines	Chemical Grade	Chemical grade of Limestone sorted by manually	
7d	Any beneficiation process at mines	No beneficiation.	Grade wise sorting by manual means being practiced	

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Very thin veneer of soil, concurrently used in plantation.	Very thin veneer of soil, concurrently used in plantation.	
8b	Concurrent use or storage of topsoil	Concurrent use.	Concurrent use of top soil for plantation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	No OB reported but separate stacking for undersized limestone noticed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not required	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal.	Carried out in phase wise manner in past	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100 saplings were proposed to be planted	Total 120 saplings planted	
8g	Survival rate	Not Proposed	65% achieved	
8h	Water sprinkling on roads to control airborne dust	Proposed	Sprinkling of water by water tanker was used to reduce dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	No comments		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. Submitted upto -June 2018 A.R. submitted upto-2017-2018.	

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	Give	Mr. Ashvini kumar , B.E(Mining) appointed as ME & Sh R.K.Pathak as Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pit-17.77 Ha Roads-1.20 Green belt-1.15 Total 17.77Ha reclaimed & rehabilitated	
9d	Scrutiny of Annual return on afforestation	Given	Total 120 saplings planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Applicable	Not Applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	No ROM stock is given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Give	Cost of Production-440/MT	
9i	Scrutiny of Annual return on fixed assets	Given	Given	
9k	Scrutiny of Annual return on mining machineries	Given	Tippers-10Tonnes Jack Hammer-450cfm	

- 10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:
 -The last inspection of mine was carried out on dtd 08.07.17 and violations of rules 26(2) & 45(5)(b)(c) and were observed and these violation rectified by the lessee vide letter No-GHCL/MIN/57/2017-18 Dtd-20.09.17. This inspection was carried out for Final Mine Closure plan. No violations were pointed out during the said inspection.
