

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/JUNA/LST-205

Mine code : 38GUJ08237

- (i) Name of the Inspecting : 003) MANISH GUPTA
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Murli mohan, Mining Engineer, Sh. R.K.Pathak, Geo
Official with
Designation
- (iv) Date of Inspection : 05/07/2017
- (v) Prev.inspection date : 13/10/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : GORAKHMODI - A
- (b) **Registration NO.** : IBM/5292/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : GUJARAT
- District : JUNAGARH
- Village : GORAKHMODI
- Taluka : SUTRAPADA
- Post office : GORAKHMODI
- Pin Code : 362275
- FAX No. : NOT AVAILABLE
- E-mail : mining@ghcl.co.in
- Phone : 09376597225
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 19/12/1990
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S GHCL LTD.
PO- SUTRAPADA
DISTRICT - GIR SOMNATH (GUJARAT)
3. (a) **Lease Number** : GUJ0271
- (b) **Lease area** : 8.73
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 04/01/2037
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : GUJARAT HEAVY CHEMICALS LTD.
 PRAKASH COMPLEX, POST BOX
 NO.28 ,VERAVAL DISTRICT -
 JUNAGARH JUNAGARH GUJARAT
 Phone:02876263401
 FAX :079-26423623

Owner : RAMAN CHOPRA
 GHCL, House, Swastik
 Society, Opp. Punjabi Hall,
 Navrangpura Ahmedabad
 (Gujarat) AHMEDABAD GUJARAT
 Phone: (079) 26427818
 FAX : (079)26423623

Agent : MANISH KUMAR
 GHCL LTD. SUTRAPADA,VERAVAL
 GIR SOMNATH GUJARAT
 Phone: (02877) 287851
 FAX : (079)26423623

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	29/05/2003
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	23/07/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL.	NIL.	Inspection has been carried out for Star rating validation.
1b	Exploration over lease area for geological axis 1 or 2	NIL.	As per company record complete lease area has explored under G1 & 2 axis.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL.	Company itself.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL.	As per company record there is no balance area for G1 & G2 exploration.	
1e	Balance reserve as on 01/04/20	N.A.	110000MT	
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	Total lease area has been explored properly.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In pit 1 & 3.	Work has been carried out in pit 1 & 3.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed.	Seperate benches has been prepared.	
2c	Stripping ratio or ore to OB ratio	N.A.	NIL. There is no OB in the area.	
2d	Quantity of topsoil generation in m3	N.A.	Negligible.	Area is free from Top soil.
2e	Quantity of overburden generation in m3	N.A.	NIL. Area is free from overburden.	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N.A.	Pits have been developed in proper manner.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two.	Work has been carried out in two pits.	
3b	Quantity of ROM mineral production proposed	19417MT.	14428MT.	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	N.A	NIL.	
3e	Grade of mineral rejects generation and threshold value declared.	N.A	NIL.	
3f	Quantity of sub grade mineral generation.	1941MT.	1440M.T (Undersize limestone)	
3g	Grade of sub grade mineral generation	Chemical.	Chemical.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Manual. Hand picking by labour has been practised.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N.A.	NIL.	
3j	Provision of drilling and blasting in mineral benches	N.A.	Drilling and blasting has not been done.	

3k	Provision of mining machineries in mineral benches	N.A.	JCB & trucks observed at the time of inspection.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	N.A.	Yes.	
3m	Total area covered under excavation/pits	2.3 hect.	2.3 hect.	
3n	Ore to OB ratio for the pit/mine during the year.	N.A.	NIL.	Area is free from OB.
3o	Total area put in use under different heads at the end of year	N.A.	Pits: 2.3 hect. Roads: .0757 hect. Infrastructure: .0757 hect. Others: 0.1813 hect.	
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 19595MT, 2013-14: 19561MT, 2014-15: 19656MT, 2015-16: 19665MT, 2016-17: 19417MT	2012-13: 18865MT, 2013-14: 182351MT, 2014-15: 11745MT, 2015-16: 10130MT, 2016-17: 14428MT	
3q	General remarks of inspecting officers on method of mining etc.	N.A.	Chosen method of mining is correct for this type of deposit.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed.	Topsoil has been used in plantation. There is no OB & Mineral rejects in the area.	
4b	Location of topsoil, OB and mineral reject dumps	N.A.	NIL.	
4c	Number of dumps within lease area and outside of lease area	N.A.	NIL.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N.A.	NIL.
4e	Number of active and alive dumps.	N.A.	NIL.
4f	Number of dead dumps.	N.A.	NIL.
4g	Number of dumps established.	N.A.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	N.A.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	N.A.	NIL.
4j	Number of settling ponds	N.A.	NIL.
4k	Specific comments of inspecting officer on waste dump management	N.A.	Area is free from OB & waste. Overall waste dump management is satisfactory.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	N.A.	Fully extracted.	
5b	Area under backfilling of mined out area	N.A.	2.27hect area has been levelled and developed as agriculture field.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	N.A.	Used in plantation.	
5d	Total area fully reclaimed and rehabilitated	N.A.	2.27hect area has been levelled and developed as agriculture field.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	Filling/waste material has not been available at mine site. Mined out area has been levelled and developed as agriculture field.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	N.A.	Submitted.	
6b	Area available for rehabilitation (ha) .	N.A.	NIL.	
6c	afforestation done (ha).	N.A.	0.5hect	
6d	No. of saplings planted during the year	40	40	
6e	Cumulative no .of plants	N.A.	411	
6f	Any other method of rehabilitation	N.A.	NIL.	
6g	Cost incurred on watch and care during the year	N.A.	Separate record not available at mine.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	N.A.	NIL.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	N.A.	NIL.	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	N.A.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N.A.	Area is not mature to develop as water reservoir.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	N.A.	2.27hect area has been levelled and developed as agriculture field.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	N.A.	Plantation has done.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	N.A.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	N.A.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	N.A.	Environmental monitoring has been conducted.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A..	Compliance of PMCP and progressive closure operations is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	19417MT	14428MT	Production is less than proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual, hand sorting.	
7c	Different grade of mineral sorted out at mines.	N.A.	Chemical grade & cement grade (undersize).	
7d	Any beneficiation process at mines	N.A.	NIL.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	Mineral conservation and beneficiation issues is satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	N.A.	Area is free from top soil. Encountred top soil has been used in plantation.	
8b	Concurrent use or storage of topsoil	N.A.	Used in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.,A.	NIL.	Area is free from overburden, waste and rejects.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	NIL.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	2.27 hect mined out area has been levelled and used as agriculture field.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	N.A.	40 plants has been planted during the year.
8g	Survival rate	N.A.	60%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on roads observed at the time of inspection.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	N.A.	Aesthetic beauty in and around mines area is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	N.A.	Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	N.A.	Mining engineer & manager: Sh. P. Murlimohan. Geologist: Sh. M.C.Upadhyay.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	N.A.	Pits: 2.3 hect. Roads: .0757 hect. Infrastructure: .0757 hect. Others: 0.1813 hect.	
9d	Scrutiny of Annual return on afforestation	N.A.	Reported plantation observed at the time of inspection.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N.A.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	N.A.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	N.A.	Adequate.
9h	Scrutiny of Annual return on fixed assets	N.A.	Satisfactory.
9k	Scrutiny of Annual return on mining machineries	N.A.	HEMM has been used. JCB & tippers/truck has been used.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(MANISH GUPTA)

Indian Bureau of Mines