

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/JUNA/LST-214

Mine code : 38GUJ08239

- (i) Name of the Inspecting : 003) MANISH GUPTA
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. R.K.Pathak, Geologist, Sh. Rajesh patel, Foreman
Official with
Designation
- (iv) Date of Inspection : 06/07/2017
- (v) Prev.inspection date : 09/07/2006

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : MEGHAPAR - A
- (b) **Registration NO.** : IBM/5290/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : GUJARAT
- District : JUNAGARH
- Village : MEGHAPUR
- Taluka : VERAVAL
- Post office : AJOTHA
- Pin Code : 362265
- FAX No. : (0120) 2535209
- E-mail : mining@ghcl.co.in
- Phone : (0120) 2535335
- (f) **Police Station** : VERAVAL
- (g) **First opening date** : 22/12/1991
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : GUJARAT HEAVY CHEMICALS LTD.
VPO - SUTRAPADA
DISTRICT - JUNAGARH (GUJRAT)
3. (a) **Lease Number** : GUJ0254
- (b) **Lease area** : 10.52
- (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

Mining Engineer

Name : RAJESH PATEL,Full Time
 Qualification : DIP. IN MINING
 Appointment/ : 16/07/2012
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12/08/2002
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	05/02/2007
	:	Mining Scheme rule 12 MCDR1988	06/09/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog.	NIL.	Inspection carried out for Star rating validation.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	NIL.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal.	NIL	
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 exploration.	
1e	Balance reserve as on 01/04/20	N.A	47145	
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	Area has explored properly. Fresh exploration should be done at the time of review mining plan preparation.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In Pit NO. 1 & 2	Work has been carried out in Pit 1 & 2	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches has been proposed.	Seperate benches have been developed.	
2c	Stripping ratio or ore to OB ratio	NIL.	Area is free from OB.	
2d	Quantity of topsoil generation in m3	NIL.	Negligible.	
2e	Quantity of overburden generation in m3	NIL.	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.	Development of pits is satisfactory. Deposit has been utilised in good manner.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two.	Production has been taken from two pits.	
3b	Quantity of ROM mineral production proposed	16854MT.	7446MT.	
3c	Recovery of sailable/usable mineral from ROM production	15000MT.	6960MT. (Production is less than proposal).	
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.	1011MT.	487M.T.(Undersize limestone)	
3g	Grade of sub grade mineral generation	Undersize chemical grade Limestone.	Undersize chemical grade Limestone.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Hand sortig by labour has been carried out.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL.	NIL.	
3j	Provision of drilling and blasting in mineral benches	NIL.	Drilling and blasting has not practIsed. Work has been carried out by H.E.M.M.	

3k	Provision of mining machineries in mineral benches	Jack hammer, Compressor, JCB, Tipper.	JCB & Tipper observed at the time of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2.0 m.	Height of benches is suitable for method of mining.
3m	Total area covered under excavation/pits	N.A.	6.6078
3n	Ore to OB ratio for the pit/mine during the year.	N.A.	Area is free from OB.
3o	Total area put in use under different heads at the end of year	N.A.	By pits: 6.6078hect. By roads: 0.731hect
3p	Production of ROM mineral during the last five year period as applicable	2012-13 :16854M.T, 2013-14: 16854M.T, 2014-15: 16854M.T, 2015-16: 16854M.T, 2016-17: 16854M.T	2012-13 :16543M.T, 2013-14: 10187M.T, 2014-15: 15617M.T, 2015-16: 9609M.T, 2016-17: 7446M.T
3q	General remarks of inspecting officers on method of mining etc.	N.A.	Method of Mining O/C semi mechanized, without drilling blasting is suitable. for this type of deposit. General working condition is satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	N.A,	Top soil has been used in plantation. OB and Mineral reject do not exist.	
4b	Location of topsoil, OB and mineral reject dumps	N.A.	Topsoil has been used in plantation. OB and mineral reject dumps do not exist.	

4c	Number of dumps within lease area and outside of lease area	NIL.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL.	NIL.
4e	Number of active and alive dumps.	NIL.	NIL.
4f	Number of dead dumps.	NIL.	NIL.
4g	Number of dumps established.	NIL.	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 almost free from 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.	Full.	Mineral has been extracted in full thickness.	
5b	Area under backfilling of mined out area	NIL.	NIL.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	N.A.	Topsoil has been used in plantation.	

5d	Total area fully reclaimed and rehabilitated	NIL.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	Waste/reject for backfilling is not available at mine site. Some area has been levelled and developed as agriculture field. At present area is not mature to develop as a water reservoir. Overall status of reclamation is satisfactory.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	N.A.	Annual report on PMCP for the year 2016-17 has not been submitted.	
6b	Area available for rehabilitation (ha) .	N.A.	Only plantation has been done.	
6c	afforestation done (ha).	N.A.	.04hect.	
6d	No. of saplings planted during the year	25	35	
6e	Cumulative no .of plants	N.A.	175	
6f	Any other method of rehabilitation	Water reservoir.	At present area has not been mature for this.	
6g	Cost incurred on watch and care during the year	N.A.	Specific record not available at mine.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	N.A.	At present area is not mature for this.	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	N.A.	Backfilling has not been done.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	N.A.	Some area has been levelled and developed as a agriculture field.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Plantation & Water reservoir.	Plantation has been done. Area is not mature for developing as a water reservoir.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	N.A.	Plantation has been done.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Plantation.	35 plants have been planted.
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.	Testing of air, water & noise has been carried out and found under standard limits.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	Plantation has been carried out. Some mined out area has been levelled and used for farming. General compliance of PMCP is satisfactory.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	16854MT	7446MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual. Hand picking by labour.	
7c	Different grade of mineral sorted out at mines.	Chemical grade & Cement grade.	Chemical grade & Cement grade limestone has been sorted out separately.	
7d	Any beneficiation process at mines	NIL.	Only sizing of lumps has done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	Status of mineral conservation & beneficiation is satisfactory.	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	Top soil is negligible in the area. Found top soil has been used in the plantation.	
8b	Concurrent use or storage of topsoil	In plantation.	Top soil has been used in plantation.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A.	Area is free from overburden, waste rock, rejects and fines.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL.	Overburden, waste rock, rejects and fines are not available at mine.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Water reservoir.	Not mature for water reservoir. Some area has been levelled and developed as agriculture field.
8g	Survival rate	N.A.	40%
8h	Water sprinkling on roads to control airborne dust	Proposed.	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. G.S.Sharma Geologist: Sh. M.C.Upadhyay	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	N.A.	Area under pits: 6.6078hect
9d	Scrutiny of Annual return on afforestation	N.A.	35 plants have been planted.
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.	7446MT ROM has been generated.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	N.A.	Adequqte.
9h	Scrutiny of Annual return on fixed assets	N.A.	Satisfactory.
9k	Scrutiny of Annual return on mining machineries	N.A.	J.C.B & tippers have 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