

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** GUJ/JUNA/LST-213

**Mine code :** 38GUJ08228

- (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  
Official with  
Designation
- (iv) Date of Inspection : 05/07/2017
- (v) Prev.inspection date : 27/04/2008

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KHAMBHA (8 HA)**
- (b) **Registration NO.** : **5292**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : GUJARAT
- District : JUNAGARH
- Village : KHAMBHA
- Taluka : SUTRAPADA
- Post office : PRANCHI PIPHI
- Pin Code : 362268
- FAX No. : (02876) 263480
- E-mail : mining@ghcl.co.in
- Phone : 079-26427519
- (f) Police Station : SUTRAPADA
- (g) First opening date : 01/07/1991
- (h) Weekly day of rest : SUN
2. Address for : M/S GHCL LTD.  
correspondance : VPO - SUTRAPADA  
DISTRICT - JUNAGARH (GUJ)
3. (a) Lease Number : GUJ0275
- (b) Lease area : 8
- (c) Period of lease : 50
- (d) Date of Expiry : 02/04/2037
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 : VINOD KUMAR,Part Time  
 Qualification :  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	13/07/2004
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	08/11/2006
	:	FMCP under 23C(1)	25/01/2007
	:	Mining Scheme rule 12 MCDR1988	28/03/2012

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog.	A borehole has been drilled in 2012-13.	Inspection has been carried out for Star rating validation.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	A borehole has been drilled in 2012-13.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal.	Exploration work has been carried out by company itself.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal.	As per company record there is no balance area for G1 & G2 exploration.	
1e	Balance reserve as on 01/04/20	No Proposal.	29500T	
1f	General remarks of inspecting officers on geology, exploration etc	No Proposal.	Calculated available reserve is less. New exploration should be done during new mining plan preparation.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In Pit No. 1	Development has been done in the Pit No. 1.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil, overburden and minerals.	Separate benches in top soil, overburden and minerals have been developed.	
2c	Stripping ratio or ore to OB ratio	N.A.	Area is free from OB.	
2d	Quantity of topsoil generation in m3	N.A	Negligible.	
2e	Quantity of overburden generation in m3	N.A.	No overburden generated.	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N.A.	Pit development is satisfactory. Deposit has been extracted in full depth.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One pit has been developed.	
3b	Quantity of ROM mineral production proposed	11236MT.	10410MT.	
3c	Recovery of sailable/usable mineral from ROM production	10,000MT.	9265MT.	
3d	Quantity of mineral reject generation	1236MT.	1145MT.	
3e	Grade of mineral rejects generation and threshold value declared.	Chemical grade, CaCo3-90%	Chemical grade, CaCo3-90%	
3f	Quantity of sub grade mineral generation.	No Proposal.	NIL.	
3g	Grade of sub grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Hand sorting by Labour has been done.	
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	YES.	Mining has done with the help of HEMM. Drilling and blasting has not been carried out.	

3k	Provision of mining machineries in mineral benches	YES.	Machinery has been deployed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	N.A.	Yes, suitable.
3m	Total area covered under excavation/pits	1.66 hect.	1.5hect.
3n	Ore to OB ratio for the pit/mine during the year.	NIL.	There is no OB in the area.
3o	Total area put in use under different heads at the end of year	Mining: 1.66hect., Road,etc: .3405hect	Mining: 1.5hect., Road,etc: .302hect
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 11236MT, 2013-14:11236MT, 2014-2015:11236MT, 2015-2016:11236MT, 2016-17:11236MT.	2012-13: 10410MT, 2013-14: 12594MT, 2014-15:268MT, 2015-16: 10792MT, 2016-17: 10410MT.
3q	General remarks of inspecting officers on method of mining etc.	NIL.	Working condition is satisfactory. Practised method of mining is correct for this type of deposit.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL.	Top soil has been used in plantation. There is no OB in the area. Mineral rejects (under size) has been stacked seprately.	
4b	Location of topsoil, OB and mineral reject dumps	NIL.	Mineral reject (under size) has been stacked on earmarked location.	

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	NIL.	Area is free from OB. Under size limestone has been stacked properly. Waste dump management is satisfactory.

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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 extraction has been proposed.	Limestone has been extracted fully.	
5b	Area under backfilling of mined out area	N.A	Partial mined out area has been developed in agriculture field..	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	In plantation.	Top soil has been used in plantation.	

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5d	Total area fully reclaimed and rehabilitated	N.A	N.A.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	Waste material for backfilling is not available at mine site. Partial mined out area has been developed in agriculture field. Use of mined out area is satisfactory.

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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).	No proposal.	Annual report on PMCP for the year 2016-17 has not been submitted.	
6b	Area available for rehabilitation (ha) .	NIL.	NIL.	
6c	afforestation done (ha).	YES.	YES.	
6d	No. of saplings planted during the year	50.	55.	
6e	Cumulative no .of plants	N.A.	150.	
6f	Any other method of rehabilitation	To develop the mined out area for this process. water reservoir.	Area has not been mature for this process.	
6g	Cost incurred on watch and care during the year	N.A.	N.A.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	N.A.	N.A.	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	N.A.	N.A.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	N.A.	N.A.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Yes.	Area has not been matured for this process.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	N.A.	N.A.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Plantation.	Plantation has been carried out on lease boundary.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	N.A.	N.A.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	N.A.	N.A.
6p	Compliance of environmental monitoring (core zone and buffer zone)	N.A.	N.A.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	Plantation has been carried out. Position of PMCP compliance is satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	N.A.	Grade-wise sorting has been done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	
7c	Different grade of mineral sorted out at mines.	Chemical grade.	Chemical grade.	
7d	Any beneficiation process at mines	N.A.	Only sizing of lumps has been done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	Satisfactory.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seprate stacking of Top soil.	Top soil availablity is very less in the area. Available top soil has been removed seprately and used in plantation.	
8b	Concurrent use or storage of topsoil	Storage and use in plantation.	Top soil has been used in plantation.	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A	Area is free from overburden & waste rock. Undersize limestone has been stacked separately.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	Overburden & waste rock have not been available. Partial mined out area has been developed as agriculture field .
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A	Some mined out area has been developed as agriculture field.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	N.A.	About 150 plants exists.
8g	Survival rate	N.A	60%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on road observed at the time of inspection.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	N.A.	General aesthetic beauty in and around mines area is good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	N.A	Monthly return up to June 2017 and Annual return up to 2016-17 has been submitted.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	N.A	Sh. Vinod kumar has been appointed as Mining engineer & Manager. Sh. Rashmikant pathak has been appointed as Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	N.A	Area under pits: 1.5hect.
9d	Scrutiny of Annual return on afforestation	N.A	55 saplings have been planted.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N.A	1145MT under size of chemical grade generated.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	N.A	10410MT ROM generated.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	N.A	Satisfactory.
9h	Scrutiny of Annual return on fixed assets	N.A.	Adequate.
9k	Scrutiny of Annual return on mining machineries	N.A.	HEMM has been deployed.

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**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