

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/JUNA/LST-228

Mine code : 38GUJ08273

- (i) Name of the Inspecting : 003) MANISH GUPTA
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Ashwini kumar, Manager, Sh. R.K.Pathak, Geologist
Official with
Designation
- (iv) Date of Inspection : 08/07/2017
- (v) Prev.inspection date : 14/10/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SUTRAPADA- D (S.NO 1483)
- (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 : SUTRAPADA
- Taluka : SUTRAPADA
- Post office : SUTRAPADA
- Pin Code : 362275
- FAX No. :
- E-mail : mining@ghcl.co.in
- Phone : 02876-80071
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 08/07/2000
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VILL-SUTRAPADA
DISTT- GIR SOMNATH, PS-SUTRAPADA
GUJARAT
3. (a) **Lease Number** : GUJ1385
- (b) **Lease area** : 34.29
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 28/05/2048
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : GUJARAT HEAVY CHEMICALS LTD.
 SUTRAPADA TALUKA-VERAVAL
 DISTRICT - GIR SOMNATH GIR
 SOMNATH 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	12/01/2006
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	14/10/2011

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	N.A.	No backlog for previous year.	Inspection for Star rating validation.
1b	Exploration over lease area for geological axis 1 or 2	N.A.	As per company record entire area has covered under geological axis 1 & 2.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N.A.	Company itself.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N.A.	NIL.	
1e	Balance reserve as on 01/04/20	N.A.	642556M.T	
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	As per the geology of deposit exploration carried out is satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	3 Pits.	Development work has been carried out in three pits.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed.	Separate benches has been developed.	
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.	Marginal.	Area is almost 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.	Deposit has been developed by opencast semi mechanized method. Development of pits is satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three.	Three.	
3b	Quantity of ROM mineral production proposed	112574MT.	14667MT.	
3c	Recovery of sailable/usable mineral from ROM production	75553MT	12907MT.	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.	37021MT.	1760MT.	
3g	Grade of sub grade mineral generation	N.A.	Cement grade (undersize limestone)	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Manual hand picking method 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 & blasting has not been practised.	

3k	Provision of mining machineries in mineral benches	Proposed.	JCB & tippers/trucks combination observed during inspection.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	N.A.	Yes. Suitable for this semi opencast working.	
3m	Total area covered under excavation/pits	15.05 hect.	14.80 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	Pits : 15.05 hect. Others : 2.75 hect.	Pits : 14.80 hect. Others : 2.75 hect.	
3p	Production of ROM mineral during the last five year period as applicable	2011-12: 1,00,000MT, 2012-13: 1,00,000MT, 2013-14: 1,00,000MT, 2014-15: 1,00,000MT, 2015-16: 1,00,000MT	2011-12: 26760MT, 2012-13: 31630MT, 2013-14: 25289MT, 2014-15: 21453MT, 2015-16: 14667MT	
3q	General remarks of inspecting officers on method of mining etc.	N.A	Method of working semi mechanized opencast is suitable for this type of deposit. Benches has been developed properly. General method of mining 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)	Proposed.	Topsoil has been used in plantation. Area is free from OB & mineral rejects.	
4b	Location of topsoil, OB and mineral reject dumps	N.A.	NIL.	Topsoil has been used in plantation.

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 overburden & waste material. 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.	Fully extraction.	Chemical grade limestone has been extracted in full depth.	
5b	Area under backfilling of mined out area	N.A.	23.517 hect 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.	Topsoil has been used in plantation.	

5d	Total area fully reclaimed and rehabilitated	N.A.	23.517 hect area has been levelled and developed as agriculture field.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	Waste material for backfilling/reclamation is not available at mine site. Total 23.517 hect area has been levelled and developed ads agriculture field. Plantation has done on it. Overall backfilling and reclamation practise is satisfactory.

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.	Yearly report for the year 2016-17 has not been submitted.	
6b	Area available for rehabilitation (ha) .	N.A.	NIL.	
6c	afforestation done (ha).	YES.	Plantation has been carried out.	
6d	No. of saplings planted during the year	200.	206	
6e	Cumulative no .of plants	N.A.	600.	
6f	Any other method of rehabilitation	To develop as water reservoir.	Area has not been matured for this process.	
6g	Cost incurred on watch and care during the year	N.A.	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.	23.517 hect area has been levelled and developed as agriculture field.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	N.A.	Plantation has been done.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N.A.	Not mature for this process.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	N.A.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	N.A.	Plantatiopn has been carried out.
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 done.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	PMCP compliance and progressive closure operations are 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	112574MT	14667MT.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual hand picking has been practised.	
7c	Different grade of mineral sorted out at mines.	Chemical grade & Cement grade.	Chemical grade & Cement grade.	
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 practise is satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	Encountered 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.
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.	Levelled and developed as agriculture field.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200	206	
8g	Survival rate	N.A.	60%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling observed during 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	Mining engineer: Sh. Ashwani kumar Ashwani kumar Geologist: Sh. R.K.Pathak	Mining engineer: Sh. Ashwani kumar Geologist: Sh. R.K.Pathak
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	n.a.	Under pits: 14.80 Hect. Others: 2.75 Hect.
9d	Scrutiny of Annual return on afforestation	N.A.	206 plants has 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	112574 MT	14667 MT.
9k	Scrutiny of Annual return on mining machineries	N.A.	JCb & trucks/tippers combination observed during inspection.

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