

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/JUNA/LST-255

Mine code : 38GUJ08304

- (i) Name of the Inspecting : 003) MANISH GUPTA
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Ashwani kumar, Manager, Sh. R.K.Pathak, Geologis
Official with
Designation
- (iv) Date of Inspection : 09/07/2017
- (v) Prev.inspection date : 13/10/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SUTRAPADA (F-1556)
- (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. : (02876) 263480
- E-mail : mining@ghcl.co.in
- Phone : (02876) 263480-83
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 20/05/2002
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SUTRAPADA LIMESTONE MINE
VILLAGE- SUTRAPADA
DISTRICT - GIR SOMNATH (GUJARAT)
3. (a) **Lease Number** : GUJ1291
- (b) **Lease area** : 8.79
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 05/04/2007
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	18/07/2008
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	30/07/2013

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 all area has been covered under axis 1 or 2.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N.A.	Company itself.	As per company record all area has been covered under axis 1 or 2.
1d	Balance area to be explored to bring Geological axis in 1 or 2	N.A.	NIL.	As per company record all area has been covered under axis 1 or 2.
1e	Balance reserve as on 01/04/20	165110 M.T.	212954 M.T.	
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	As per the geology of area exploration work is satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	N.A.	Prepared.	Area is almost free from topsoil & overburden.
2c	Stripping ratio or ore to OB ratio	N.A.	NIL.	Area is free from OB.
2d	Quantity of topsoil generation in m3	N.A.	NIL.	Area is free from topsoil.
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.	In reference to deposit development is satisfactory.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three pits.	Production has been taken from three pits.	
3b	Quantity of ROM mineral production proposed	33736 M.T.	23335 M.T.	
3c	Recovery of sailable/usable mineral from ROM production	30025 M.T.	20535 M.T.	
3d	Quantity of mineral reject generation	N.A.	NIL.	
3e	Grade of mineral rejects generation and threshold value declared.		NIL.	
3f	Quantity of sub grade mineral generation.	3711 M.T.	2800 M.T.	
3g	Grade of sub grade mineral generation	Chemical grade limestone.	Chemical grade limestone.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Manual hand picking has been practised.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N.A.	Not required.	
3j	Provision of drilling and blasting in mineral benches	N.A.	Drilling and blasting has not been practised.	
3k	Provision of mining machineries in mineral benches	Yes.	JCB cum Trucks/tippers 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.	

3m	Total area covered under excavation/pits	N.A.	Pits: 3.40 hect.	
3n	Ore to OB ratio for the pit/mine during the year.	N.A.	NIL.	Area is free from PB.
3o	Total area put in use under different heads at the end of year	N.A.	Pits: 3.40 hect. Others: 1.33 hect	
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 33776 M.T, 2014-15: 33705 M./T, 2015-16: 33813 M.T, 2016-17: 33736 M.T.	2013-14: 31885 M.T, 2014-15: 24102 M./T, 2015-16: 19753 M.T, 2016-17: 23335 M.T.	
3q	General remarks of inspecting officers on method of mining etc.	N.A.	Method of mining Opencast 'OTFM' is suitable for this type of deposit. 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.	Topsoil has used in plantation. Area is free from OB and mineral rejects.	
4b	Location of topsoil, OB and mineral reject dumps	N.A.	NIL.	Topsoil has used in plantation. Area is free from OB and mineral reject.
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.	Not required.
4k	Specific comments of inspecting officer on waste dump management	N.A.	Area is free from waste. There is no dump in the area. 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.	Mineral has been extracted in full depth.	
5b	Area under backfilling of mined out area	N.A.	Total 4.95 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.	Concurrent use in plantation.	Total 4.95 hect area has been levelled and developed as agriculture field.
5d	Total area fully reclaimed and rehabilitated	N.A.	NIL.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	Backfilling material is not available at mine site. Total 4.95 hect area has been levelled and developed as agriculture field. Overall backfilling and reclamation practise is satisfactory.	

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.	4.95 hect.	
6d	No. of saplings planted during the year	N.A.	286	
6e	Cumulative no .of plants	N.A.	500.	
6f	Any other method of rehabilitation	N.A.	NIL.	
6g	Cost incurred on watch and care during the year	N.A.	Not available at mine site.	
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.	Filling material is not available at mine site.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	N.A.	500 plants have been planted on 4.95 hect area.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N.A.	At present area is 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.	NIL.
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.	Filling material is not available at mine site. Area is not to develop as water reservoir.Total 4.95 hect area has been levelled and developed as agriculture field. Overall PMCP operations are satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	N.A.	Grade-wisw sorting within lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	N.A.	Manual hand sorting.	

7c	Different grade of mineral sorted out at mines.	N.A.	Chemical grade & cement grade limestone.
7d	Any beneficiation process at mines	N.A.	Not required.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	Mineral conservation issues are satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	N.A.	Topsoil has used in plantation.	Topsoil is negligable in lease area.
8b	Concurrent use or storage of topsoil	N.A.	Topsoil has been used in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A.	NIL.	Area is free from overburden, waste rock, rejects etc.
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.	Total 4.95 hect area has levelled & developed as agriculture field.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	400.	500.	
8g	Survival rate	N.A.	67%	
8h	Water sprinkling on roads to control airborne dust	N.A.	Observed during 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 satisfactory.	

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: 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.	Pits: 3.40 hect. Others: 1.33 hect.	
9d	Scrutiny of Annual return on afforestation	N.A.	Total 500 plants have been planted.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N.A.	NIL.	
9h	Scrutiny of Annual return on fixed assets	N.A.	Adequate.	

9k	Scrutiny of Annual return on mining machineries	N.A.	JCB & Trucks/tippers combination observed during inspection.
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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