

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/JUNA/LST-254

Mine code : 38GUJ08303

- (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 : 08/07/2017
- (v) Prev.inspection date : 04/01/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SUTRAPADA (E- 2865)
- (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) 305000
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 20/05/2002
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SUTRAPADA LIMESTONE MINE(BLOCK-E)
PO- SUTRAPADA
DISTRICT - GIR SOMNATH (GUJARAT)
3. (a) **Lease Number** : GUJ1362
- (b) **Lease area** : 12.62
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 24/05/2048
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : GHCL LTD.
 VILLAGE & TALUKA--
 SUTRAPADA JUNAGARH
 GUJARAT
 Phone:02786-83401-03/09/10/83551-56
 FAX :02876-83480

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	15/07/2008
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	17/07/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL.	No backlog for previous year.	Inspection carried out for Star rating validation.
1b	Exploration over lease area for geological axis 1 or 2	N.A.	As per company record all lease area has been covered under axis 1 Or 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.	As per company record all area has been explored. No balance area is available.	
1e	Balance reserve as on 01/04/20	N.A.	195224MT.	
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	As per geology of area exploration has been carried out satisfactory. Fresh exploration should be done at the time of new mining plan preparation.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 1,2 & 3 pits.	Development has been carried out in 1,2 & 3 pits.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed.	Seprate benches has been developed.	Area is free from 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.	Negligible.	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 properly. Condition of benches, slope, haul roads etc are satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three.	Production has been taken from three pits.	
3b	Quantity of ROM mineral production proposed	33813MT.	4502MT.	Production is less than proposal.
3c	Recovery of sailable/usable mineral from ROM production	30094MT.	3962MT.	
3d	Quantity of mineral reject generation	N.A.	NIL.	No mineral reject in lease area.
3e	Grade of mineral rejects generation and threshold value declared.	N.A.	NIL.	
3f	Quantity of sub grade mineral generation.	N.A.	NIL.	
3g	Grade of sub grade mineral generation	3719 MT.	540 MT.	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 & Tipper/truck combination observed during inspection time.	
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	N.A.	4.0hect.	
3n	Ore to OB ratio for the pit/mine during the year.	N.A.	NIL.	Area is almost free from OB.
3o	Total area put in use under different heads at the end of year	N.A.	Mining: 4.0 hect. Infrastructure: 1.08 hect. Others: 0.67 hect.	
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 33745MT, 2014-15: 33732MT, 2015-16: 33786MT, 2016-17: 33813MT	2013-14: 20106MT, 2014-15: 26346MT, 2015-16: 21032MT, 2016-17: 4502MT	
3q	General remarks of inspecting officers on method of mining etc.	N.A.	Chosen method of mining Opencast(OTFM) is suitable for working. Working conditions are satisfactory.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	N.A.	Carried out.	Top soil has been used in plantation. Area is free from mineral rejects.
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 almost free from OB. 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.	Chemical grade limestone has been extracted fully.	
5b	Area under backfilling of mined out area	N.A.	NIL.	18.05 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.	Top soil has been used in plantation.	
5d	Total area fully reclaimed and rehabilitated	N.A.	NIL.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	18.05 hect area has been levelled and developed as agriculture field. Overall backfilling and reclamation practise 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).	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	100	120	
6e	Cumulative no .of plants	N.A	440.	
6f	Any other method of rehabilitation	N.A	NIL.	
6g	Cost incurred on watch and care during the year	N.A.	Record 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.	Filling material is not available at mine site.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	N.A.	NIL.	Area is free from waste/tailings.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	N.A.	18.05 hect. area has been levelled and developed as agriculture field.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N.A.	Mine has not matured yet 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.	Plantation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	N.A.	Environmental monitoring has been carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	Filling material is not available at mine site. Lessee has levelled and developed 18.05 hect. area as agriculture field. Plantation has been carried out. Overall PMCP status is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	30094MT.	3962MT.	Production is less than target.
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.	Sizing of lumps only.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	Mineral conservation practise is satisfactory.	No beneficiation process at mine site.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	N.A.	Available top soil has been used in plantation.	Area is almost free from top soil.
8b	Concurrent use or storage of topsoil	N.A.	Used in plantation.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	NIL.	Overburden, waste rock, rejects etc not available at mine site.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	18.05 hect. area has been levelled and developed as agriculture field.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	N.A.	Plantation has been carried out.
8g	Survival rate	N.A.	50%
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 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. 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.	Mining: 4.00 hect. Infrastructure: 1.08 hect. Others: 0.67 hect.	
9d	Scrutiny of Annual return on afforestation	N.A.	120 plants have been planted.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N.A.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	N.A.	Satisfactory.
9k	Scrutiny of Annual return on mining machineries	N.A.	JCB, tippers/truck 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