

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : Guj/JUNA/Lst-233

Mine code : 38GUJ08272

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

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SUTRAPADA (S.NO.1976)
- (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 : 02876-263401
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 18/06/1998
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s GHCL LTD.
SUTRAPADA,
GIR SOMNATH-362275, (GUJARAT)
3. (a) **Lease Number** : GUJ1661
- (b) **Lease area** : 8.89
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 05/04/2007
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 :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	N.A.	No backlog.	
1b	Exploration over lease area for geological axis 1 or 2	N.A.	As per company record full lease area has been covered under G 1 & 2 axis.	
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.	516375 M.T.	
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	As per the geology of area exploration work has been carried out satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No. 1,2 & 3	In pit No. 1,2 & 3	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed.	Separate benches have been formed.	
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.	Area is almost 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.	Deposit has been developed properly. Working condition of mine 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	44944 M.T	31266 M.T.	
3c	Recovery of sailable/usable mineral from ROM production	40000 M.T	27514 M.T	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.	4944 M.T.	3752 M.T.	Undersize limestone.
3g	Grade of sub grade mineral generation	N.A.	Undersize limestone (Cement grade).	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Hand picking 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	NIL.	Drilling & blasting has not been done.	

3k	Provision of mining machineries in mineral benches	Proposed.	JCB & truck/tippers observed at the time of inspection.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	N.A.	Yes. Suitable for proposed opencast semi mechanized method.	
3m	Total area covered under excavation/pits	33.5 hect	24.97 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: 33.5 hect others: 5.146hect	Pits: 24.97 hect others: 2.4 hect	
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 44944MT, 2014-15: 44944MT, 2015-16: 44944MT, 2016-17: 44944MT	2013-14: 25050 MT, 2014-15: 25285MT, 2015-16: 35105 MT, 2016-17: 31266MT	
3q	General remarks of inspecting officers on method of mining etc.	N.A.	Method of working '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.	Top soil has been used in plantation. Area is free from OB & mineral rejects.	
4b	Location of topsoil, OB and mineral reject dumps	N.A.	NIL.	Top soil has been used in plantation.
4c	Number of dumps within lease area and outside of lease area	N.A.	NIL.	Area is free from OB.

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 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.	N.A.	Chemical grade limestone has been extracted in full depth.	
5b	Area under backfilling of mined out area	N.A.	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	N.A.	24.85 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 is not available at mine site. Lessee has levelled and developed 24.85 hect area as agriculture field. Overall backfilling and reclamation status 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 year 2016-17 has not been submitted.	
6b	Area available for rehabilitation (ha) .	N.A.	NIL.	
6c	afforestation done (ha).	0.2 hect.	0.2 hect.	
6d	No. of saplings planted during the year	400	406	
6e	Cumulative no .of plants	1600	1611	
6f	Any other method of rehabilitation	N.A	Developing as water reservoir.	
6g	Cost incurred on watch and care during the year	N.A.	Seprate record not available at mine level.	
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.	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	N.A.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N.A.	Area has not matured yet for this.
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.	Afforestation has been done.
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 conducted.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	Position of progressive closure operations are satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	44944 MT.	31266 MT.
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 (undersize)	Chemical grade, Cement grade (undersize)
7d	Any beneficiation process at mines	N.A.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	Position of mineral conservation and beneficiation issues is satisfactory.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	Removed top soil has been used in plantation.	
8b	Concurrent use or storage of topsoil	Use.	Used in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A.	Area is free from overburden & waste rock	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	Mined out area has been levelled & developed as agriculture field.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	Levelling & plantation gas been practised.
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.	66%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Observed during 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 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.	Area degraded by pits: 24.97 hect. Others: 2.4 hect.	
9d	Scrutiny of Annual return on afforestation	N.A.	406 saplings 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.
9h	Scrutiny of Annual return on fixed assets	N.A.	Satisfactory.
9k	Scrutiny of Annual return on mining machineries	N.A.	JCB & tippers 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