

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** GUJ/JUNA/LST-303

**Mine code :** 38GUJ08348

- (i) Name of the Inspecting : 003 ) MANISH GUPTA  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Vinod kumar, Mining Engineer, Sh. R.K.Pathak, Geo  
Official with  
Designation
- (iv) Date of Inspection : 10/07/2017
- (v) Prev.inspection date : 25/12/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : BHIMDEOL (S. NO. 88/P)
- (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 : BHIMDEOL
- Taluka : TALALA
- Post office : JASSADHAR
- Pin Code :
- FAX No. : 02876-83480
- E-mail : mining@ghcl.co.in
- Phone : 02876263401
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 02/11/2009
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VILL.- BHIMDEOL  
DISTT. - GIR SOMNATH  
GUJARAT
3. (a) **Lease Number** : GUJ1960
- (b) **Lease area** : 56.35
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 14/09/2028
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 06/06/2014  
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 of 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 already explored.	
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.	As per company record all area has already explored.
1e	Balance reserve as on 01/04/20	2979171 MT.	3363610 MT.	Production is less than proposals.
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	As per geology of area carried out exploration is satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N.A.	Development has been carried out as per proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	N.A.	NIL.	Area is 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.	Negligible.	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.	Development of pit w.r.t deposit is 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 (Pit NO. 1,2 & 4).	
3b	Quantity of ROM mineral production proposed	166569 MT.	36508 MT.	Production is less than proposal.
3c	Recovery of sailable/usable mineral from ROM production	149913 MT.	32857 MT.	
3d	Quantity of mineral reject generation	N.A.	NIL.	Area is free from mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	N.A.	NIL.	
3f	Quantity of sub grade mineral generation.	8328 MT.	1971 MT.	Undersize limestone.
3g	Grade of sub grade mineral generation	Undersize limestone (CaCo3-90%)	Undersize limestone (CaCo3-90%)	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Manual hand picking has 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.	NIL.	

3k	Provision of mining machineries in mineral benches	YES.	JCB & Truck/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.	
3m	Total area covered under excavation/pits	13.704 ha.	7.2 ha.	
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	N.A.	Pits: 7.2 ha. Others: 5.566 ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 166662 MT, 2015-16: 166488 MT, 2016-17: 166569 MT.	2014-15: 37987 MT, 2015-16: 40785 MT, 2016-17: 36508 MT.	
3q	General remarks of inspecting officers on method of mining etc.	N.A.	Chosen method of mining Opencast 'OTFM' is correct for this type of deposit. General working condition is satisfactory.	

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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.	Has been done.	Area is almost free from topsoil, OB & 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.	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.	No tailings generation.
4k	Specific comments of inspecting officer on waste dump management	N.A.	Area is almost free from waste/OB. Mined out area has been levelled and developed as agriculture field. 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.	About 2.00 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.	
5d	Total area fully reclaimed and rehabilitated	N.A.	About 2.00 hect area has been levelled and developed as agriculture field.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	Filling material required for backfilling has not available at mine. About 2.00 hect area has been levelled and developed as agriculture field. Overall backfilling and reclamation work 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.	Submitted.	
6b	Area available for rehabilitation (ha) .	N.A.	NIL.	
6c	afforestation done (ha).	N.A.	0.4 hect.	
6d	No. of saplings planted during the year	400.	400.	
6e	Cumulative no .of plants	N.A.	984.	
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 backfilled area	N.A.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Yes.	At present area is not mature for this process.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	N.A.	About 2.0 hect area has been levelled and developed as agriculture field.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	N.A.	Afforestation has 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.	Plantation.
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 has not matured to develop as water reservoir. About 2.0 hect area has been levelled and developed as agriculture field. Plantation work is good. 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.	Mineral sorted in 2 category 1. Chemical grade 2. Cement grade.	
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.	Mineral has been sorted in Two categories 1.Chemical grade 2. Cement grade.	
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 practise is 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 marginal at mine site.
8b	Concurrent use or storage of topsoil	N.A.	Topsoil has used in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A.	NIL.	Area is almost free from overburden, waste rock, rejecs 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.	Levelling and developing as agriculture field.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		
8g	Survival rate	N.A.	49%
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.

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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.	Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer: Sh. Vinod kumar Geologist: Sh. Rashmikant pathak	Mining engineer: Sh. Vinod kumar Geologist: Sh. Rashmikant pathak	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	N.A.	Pit: 7.2 hect. Others: 5.566 hect.	
9d	Scrutiny of Annual return on afforestation	N.A.	400 plant has 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.	Adequate.
9k	Scrutiny of Annual return on mining machineries	N.A.	JCB and Trucks/Tipper combination observed.

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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