

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

**MCDR INSPECTION REPORT
Hyderabad regional office**

Mine file No : AP/KNL/FE-56/HYD

Mine code : 30APR11021

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : R.VEERA REDDY, Mg.Partner
Official with
Designation
- (iv) Date of Inspection : 14/09/2016
- (v) Prev.inspection date : 22/05/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GANIGATTU IRON ORE MINE**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** : VELDURTHI
- (g) **First opening date** : 01/01/1953
- (h) **Weekly day of rest** : SUN
2. **Address for** : B.V.JOSHI
correspondance 24, DEVAKI CHAMBERS,
SECUNDERABAD-500003.
3. (a) **Lease Number** : APR2783
- (b) **Lease area** : 19
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 28/12/2029
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the

Lessee : B.V.JOSHI
24, DEVAKI CHAMBERS
HYDERABAD TELANGANA
Phone:
FAX :

Owner : B.V. JOSHI
B.V JOSHI, 24, DEVAKI
CHAMBERS, SECUNDRABAD.
500003. KURNOOL ANDHRA
PRADESH
Phone:
FAX :

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	22/01/2007
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	01/02/2013
	:	MP modif under MCR 1960	06/04/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	5 Ha	5 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Map drilling, Hyderabad Rs.8,35,345/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	5 Ha	5 Ha	
1e	Balance reserve as on 01/04/20	_____	80,000 Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	5 Ha area has to be explored to upgrade the Geological Reserves.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-A Grid (330E-480E) Grid(370N-430N)	Block-A Grid (330E-480E) Grid(370N-430N)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	N.A	N.A	The mining operations are being carried out on hill slope.
2c	Stripping ratio or ore to OB ratio	1:2.2	1:2.3	_____
2d	Quantity of topsoil generation in m3	NIL	NIL	No top soil is generated as the float ore is existing on the surface.

2e	Quantity of overburden generation in m3	NIL	NIL	There is no overburden as the surface is covering with float ore.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	Development is going on as per the approved proposals.	NIL

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	_____
3b	Quantity of ROM mineral production proposed	18221.67 Tons	16454 Tons	
3c	Recovery of sailable/usable mineral from ROM production	30%	30%	_____
3d	Quantity of mineral reject generation	Nil	Nil	_____
3e	Grade of mineral rejects generation and threshold value declared.	30%	30%	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	30% Fe	30% Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Chemical analysis	Chemical analysis	

3j	Provision of drilling and blasting in mineral benches	Not Applicable since float ore is being excavated.	Not Applicable since float ore is being excavated.	
3k	Provision of mining machineries in mineral benches	One Excavator	One Excavator	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Bench ht is 3 m	Yes, Bench ht is 3 m	
3m	Total area covered under excavation/pits	2.2 ha	2.2 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.3	1:2.3	
3o	Total area put in use under different heads at the end of year	4.8816 ha	4.6203 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12---54058 TONNES 2012-13---8845 TONNES 2013-14---22995 TONNES 2014-15---18195 TONNES 2015-16---18221 TONNES	2011-12---11405 tonnes 2012-13---4500 tonnes 2013-14---250 tonnes 2014-15---405 tonnes 2015-16---16954 tonnes	
3q	General remarks of inspecting officers on method of mining etc.	Mining operations are being carried out as per the approved proposals.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	

4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	
4e	Number of active and alive dumps.	NIL	NIL	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Since no waste is being generated, waste management does not arise.

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.	1.7 ha	1.7 ha	
5b	Area under backfilling of mined out area	0.066 ha	0.066 ha	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	0.066 Ha	0.066 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	Party has started backfilling and covered 0.066 ha of the fully excavated area.

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	_____	Not submitted.	Violation of Rule 23E(2) has been pointed out.
6b	Area available for rehabilitation (ha) .	N.A	N.A	
6c	afforestation done (ha).	0.04 ha	0.04 ha	
6d	No. of saplings planted during the year	400	400	
6e	Cumulative no .of plants	400	400	
6f	Any other method of rehabilitation	N.A	N.A	
6g	Cost incurred on watch and care during the year	N.A	N.A	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.066 ha X 22.5 m	0.066ha X22.5 m	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.066 ha	0.066 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	0.066 ha	0.066 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N.A	N.A
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	N.A	N.A
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.866 HA	0.866 HA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.066 HA	0.066 HA
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Air, water, noise etc.	Quarterly monitoring of Air, water, noise etc.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	Progressive closure operations are being carried out as per the approve proposals.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	18234 Tons	14158 Tons	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	+50 % Fe -55% Fe	+50 % Fe - 55 % Fe	
7d	Any beneficiation process at mines .	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Grade wise mineral sorting is being done. The Low Grade ores are blended with High Grade ores and made saleable, there by conserving the mineral.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	
8b	Concurrent use or storage of topsoil	N.A	N.A	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	0.066 ha	Yes, 0.066 ha	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.066 ha	0.066 ha	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1600 400	400	
8g	Survival rate	_____	80%	
8h	Water sprinkling on roads to control airborne dust	Proposal is there for regular water sprinkling.	Reegularly water sprinkling is being done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	The ML area is a hilly terrain.	The ML area is a hilly terrain.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	_____	Party submitted monthly and annual returns up to date.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri .K. Jothilingam, Mining Engineer & Mines Manager w.e.f 2.11.2015.	Party has appointed Sri .K. Jothilingam, Mining Engineer w.e.f 2.11.2015. He is also acting as Mines Manager.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits-8.0 ha, reclaimed area-0, Area covered under dumps-3.0 ha	During inspection, it was observed that about 0.066 ha area has been back filled.
9d	Scrutiny of Annual return on afforestation	Furnished 1500 plants	Seems to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished as zero	Seems to be correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM-16954 tons	ROM-16954 tons
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value- Lump- Rs.969/- Fines-Rs.420/- Ex.Mine Price- Rs. 375/- Production cost is furnished as 0	Cost of production wrongly furnished. Party was asked to submit the revised return.
9h	Scrutiny of Annual return on fixed assets	Furnished as Zero	0
9k	Scrutiny of Annual return on mining machineries	1 non electrical machinery	1 Hitachi, 1 JCB, 2 tippers of 20 tons capacity.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 23E(2)	30/09/2016				
Rule 45(7)(i)	30/09/2016				

Date :
(Ch.Suseela)

Indian Bureau of Mines