

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 19/03/2020
- (v) Prev.inspection date : 14/06/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : GANIGATTU IRON ORE MINE
- (b) **Registration NO.** : IBM/19602/2015
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : SARAPARAJPURAM
- Taluka : VELDURTHY
- Post office : RAMAKOLATA
- Pin Code : 518002
- FAX No. : 08518230068
- E-mail : bvjoshimines13@gmail.com
- Phone : 08518230068
- (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 Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	22/01/2007
		Modif.of approved Mining Plan	01/02/2013
		MP modif under MCR 1960	06/04/2015
		MP review under 17(1) MCR 2016	30/01/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	For the year 2018-19.
1b	Exploration over lease area for geological axis 1 or 2	NIL	About 0.085 ha is covered under G1 scale and 13.515 ha area has been explored under G2 scale. About 0.67 ha area has to be explored under G1 scale.	No proposals are given to cover G2 to G1 in 2019-20. However, 5.4 Ha. unexplored area is to be explored in 2019-20.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Rs.32,13,070/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserve as on 01/04/20	Float 3252 + 98597 = 1,01,849 Reef :49111	Red : 12276 + 1771 = 1,40,47 Yellow : 2535 + 41940 = 44,475	
1f	General remarks of inspecting officers on geology, exploration etc	-		About 13.6 ha area has been covered under G1 and G2 scale. About 0.67 ha area has to be explored to bring the area from G2 scale to G1 scale. 5.4 ha. on explored area is proposed to be explored in 2019-20

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	A-A' to I-I'	Development work is as per the approved proposals	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No benches in top soil , only mineral benches	No benches in top soil , only mineral benches	
2c	Stripping ratio or ore to OB ratio	1:0.59	Nil	

2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	16314 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Hilly terrain, benches are developed systematically by maintaining bench height of 3 mtrs and width more than ht. Mine is developed into three blocks - Block A, Block B and Block C. 11 no of quarries are developed in the lease.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	11 Pits	11 Pits	
3b	Quantity of ROM mineral production proposed	13373.7 18669.96 + 2464.89	4480 R-O-2076.9 Y-O-3622.5	Qt2 - 249.6 t - 2019-20
3c	Recovery of sailable/usable mineral from ROM production	Float-30% Reef-70%	Float-30% Reef-70%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	

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.	-	-	
3j	Provision of drilling and blasting in mineral benches	Drifter drill with 76mm dia. Loose OB & Ore	-	Not used during 2018-19.
3k	Provision of mining machineries in mineral benches	Compressor-1, Tippers-4, Excavator-1	Dozer-1, Excavator-1, Tippers-04, Water Tanker-1.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3m bench ht	Yes, 3m bench ht	
3m	Total area covered under excavation/pits	4.953 Ha.	3.97 ha	Less area degraded due to less production.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.59	1:0	
3o	Total area put in use under different heads at the end of year	7.9605	5.3157	
3p	Production of ROM mineral during the last five year period as applicable	2015-16-- 18221.67 t, 2016-17-- 38609.06 t, 2017-18-- 19074.45 t, 2018-19 -- 13373.1, 2019- 20 -- 18,669 + 2464 T.	2015-16--16,954 t, 2016-17--22,160 t, 2017- 18--17,370 t, 2018-19 -- 4480 T	

3q General remarks of inspecting officers on method of mining etc. Semi mechanised method of mining is being adopted by using small capacity machines sorting and sizing is by manual means.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	-	-
4b	Location of topsoil, OB and mineral reject dumps	Waste dump in block C 1130 - 1225 E	Waste is dumped in 350 N 400 N	
4c	Number of dumps within lease area and outside of lease area	Four dumps witin ML	Four dumps within ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	Four active dumps	Four active dumps	
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.	PROPOSALS G.D. 1380 x 0.5 x 1 R.W. 100 x 0.5 zx 1 Silt Tank - 5 x 3 x 2	No	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	One	One	

4k	Specific comments of inspecting officer on waste dump management	-	-	Nil
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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.	5495 m3	950 m3	
5b	Area under backfilling of mined out area	0.030 ha	0.34 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	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling in Block C is started and is under progress.		About 0.34 ha has been backfilled in C block where the ore has been totally exhausted.

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).	To be submitted	submitted	
6b	Area available for rehabilitation (ha) .	0.05 ha	0.34 ha already been filled.	About 0.34 ha area has been backfilled in C Block where the total ore has been extracted.

6c	afforestation done (ha).	0.044 ha	Nil
6d	No. of saplings planted during the year	1000	500 within lease 500 outside lease
6e	Cumulative no .of plants	1500	400
6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	0.05 ha	0.34 ha already backfilled
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.05 ha	0.34 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil. 0.34 ha. area in block C is backfilled so far. Plantation is carried out in safety zone.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual gradewise sorting	Grade wise sorting is being practiced	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	+ 50% - 55% Fe	+ 50 - 55% Fe	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	

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	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only waste dumps are there.	Waste dumps observed in the lease area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB generated to be used for backfilling.	So far 0.34 Ha. area is backfilled in Block 'C'.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.03 ha	0.34 ha	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500	1500 within lease. 1500 outside area.	
8g	Survival rate	-	80%	
8h	Water sprinkling on roads to control airborne dust	Proposal is there for water sprinkling	Regular water sprinkling is being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns are to be submitted within stipulated time	Monthly and Annual Returns are being submitted within stipulated time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Mining Engineer and Geologist	No Mining Engineer and Geologist	Violation of Rule 55(1)(5)(iii) was pointed out to the lessee earlier.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits-3.973 ha, reclaimed area-0 ha, dumps-0.29ha	Area under pits-3.97 ha, reclaimed area-0.34 ha, dumps-0.29 ha	
9d	Scrutiny of Annual return on afforestation	2000	About 2000 plants	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM - 66,617.415 Grade - 19,975.	Nil	ROM - 66,617 Grade - 19,975.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value-Rs. 520/-, Ex.Mine Price-Rs. 520/- COP-Rs. 420/-	Sale value-Rs. 520/-, Ex.Mine Price-Rs. 520/- COP-Rs. 420/-	
9h	Scrutiny of Annual return on fixed assets	0	0	
9k	Scrutiny of Annual return on mining machineries	Tipper, Dozer, Excavator -1, water tanker	Tipper, DozerExcavator, water tanker	

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

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines