

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-141/HYD

Mine code : 40APR20094

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06/04/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PUTIKAVALASA MINE(21.77 H**
- (b) **Registration NO.** : **IBM/20167/2015**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ANDHRA PRADESH**
District : **VIZIANAGARAM**
Village : **PUTIKAVALASA**
Taluka : **SALURU**
Post office : **SALURU**
Pin Code : **535591**
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01/04/2015
- (h) Weekly day of rest : SUN
2. Address for : **S.VENKATA NARAYANA REDDY**
correspondance : **BALASUBBAIAH NAGAR,PAMURU VILLAGE& MANDAL**
PRAKASAM DISTRICT-523108,A.P
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : **MANGANESE ORE** Main

5. Name and Address of the

Lessee : S.VENKATA NARANA REDDY
S/O SRI RAMULU REDDY,
BALASUBBAIH NAGAR, PARMURU
V&M PRAKASAM DISTRICT.
PRAKASAM (ONGOLE H.Q.)
ANDHRA PRADESH
Phone:9440374067, 9849000761
FAX :

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	7 nos of trail pit of dimension 5m X 5m X 4m and 14 nos of trenches each of dimension 5m X 5m X 2m in the in between 2013-14 (I Year) to 2017-18 (V Year)	7 nos of exploratory pits have been dug having dimension of each 1m X 1m X 1m.	
1b	Exploration over lease area for geological axis 1 or 2	whole potential mineralised area	0.05 Ha .	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	whole potential mineralised area	Balance 21.72 Ha is to be explored in G1 & G2 level	
1e	Balance reserve as on 01/04/20	(121,122)-25500 TONNES, Resources(333)-25500 tonnes	Reserves (121,122)-49337 tonnes, Resources(333)-25500 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration is at very preliminary stage. Manganese ore body out crop observed in the mine.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N742-N878, E294-E340	Carried out as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Carried out as proposed	

2c	Stripping ratio or ore to OB ratio	1:2.88	1:0.25	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	15600 tonnes	800 tonnes	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Float ore is being mined.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	5400 tonnes	3163 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	85%	86.21%	
3d	Quantity of mineral reject generation	Mineral reject -270 tonnes	40 tonnes of 7% Mn	
3e	Grade of mineral rejects generation and threshold value declared.	Thresh Hold value-10% of Mn content	7% of Mn	
3f	Quantity of sub grade mineral generation.	270 tonnes	Nil	
3g	Grade of sub grade mineral generation		Nil	
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.	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Not proposed.	Manual mining without drilling blasting.	
3k	Provision of mining machineries in mineral benches	Manually	Manually	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5 m	suitable	
3m	Total area covered under excavation/pits	0.1 Ha	0.1 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:2.88	1:0.25	Mining carried out on float ore.
3o	Total area put in use under different heads at the end of year	3.683 Ha	0.315 Ha	
3p	Production of ROM mineral during the last five year period as applicable	22013-14 to 2017-18- 5400 tonnes each year totalling to 27000 tonnes	2015-16-Nill,2016-17-Nill,2017-18-3163 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Manual method of mining by crowbar and pickaxe.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No separate dump for Top soil. Separate dumping of OB and Mineral Rejects	
4b	Location of topsoil, OB and mineral reject dumps	OB Dump(N982-N1174,E150-E266),Mineral Reject (N638-N688,E-256,E-300)	OB dump not found in the proposed location.
4c	Number of dumps within lease area and outside of lease area	One waste dump, one mineral reject dump within the mine	No dumps found within the lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side	No dump
4e	Number of active and alive dumps.	one waste dump,one mineral reject dump	No dump
4f	Number of dead dumps.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	No dump exists
4i	Length of Retaining wall or garland drain all along dumps
4j	Number of settling ponds	1 no	Nil
4k	Specific comments of inspecting officer on waste dump management		Waste dump does not exist within the mine

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	No part of the mining lease area is matured for back filling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to store separately and utilise it for plantation	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No part of the mining lease is mature for back filling and reclamation.

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).	On or before 1st July 2018	Not submitted for the previous year and also 2017-18	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	No part of the mining lease is matured for backfilling and rehabilitation.
6c	afforestation done (ha).	125 nos, 3m X 3m spacing, 1120 sq m area	Nil	
6d	No. of saplings planted during the year	125 nos	Nil	
6e	Cumulative no .of plants	625 nos in 0.56 Ha	Nil	

6f	Any other method of rehabilitation	Construction of parapet wall, construction of garland drains and settling pond, Green belt building, fencing	Nil
6g	Cost incurred on watch and care during the year
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed	Not carried out

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sizing, sorting and screening	Managanese ore of grade 25% to below 35% Mn Grade wise sorting-2727 tonnes Despatch- 2641 tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.		25% to below 35% Mn	
7d	Any beneficiation process at mines	No proposal	----	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposed		
8b	Concurrent use or storage of topsoil	Utilisation for plantation purpose		
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed		
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Nearby area is of Kaju Jungle.	
8h	Water sprinkling on roads to control airborne dust	proposed	carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic beauty in and around the mines is good.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Submitting Monthly and annual returns	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager.Mining engineer, Geologist are appointed	Manager.Mining engineer, Geologist are not appointed	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C)Workings-0.001 Ha Used for waste disposalWaste-0.115 Ha Occupied by plant, buildings, residential, welfare buildings & roads-0.100 Ha	Covered under current (O/C)Workings-0.100 Ha Used for waste disposal-0.115 Ha (Old dump area) Occupied by plant, buildings, residential, welfare buildings & roads-0.100 Ha	
9d	Scrutiny of Annual return on afforestation	50 nos	Nil	Plantation record not maintained.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	40 tonnes	Stack yard not found.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock-Nil, 25 to 35% Mn-86 tonnes		
9h	Scrutiny of Annual return on fixed assets	25 to 35% of Mn Sale Value-Rs 2588.56 Ex mine price-Rs 2588.56 CPT-Rs 1820.00		
9k	Scrutiny of Annual return on mining machineries	Nil	Manual working without drilling and blasting, Tractor	

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
MCDR17 Rule 11(1)	24/05/2018				
MCDR17 Rule 31(4)	24/05/2018				
Rule 45(7)(i)	24/05/2018				
MCDR17 Rule 47(a)	24/05/2018				
MCDR17 Rule 48	24/05/2018				
MCDR17 Rule 54(a)	24/05/2018				
MCDR17 Rule 55(1)(3)	24/05/2018				

Date :

(S K MUDULI)

Indian Bureau of Mines