

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-2/HYD

Mine code : 40APR20028

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.A.Vishwanath Rao Naidu, Mine Manager.
Official with
Designation
- (iv) Date of Inspection : 08/03/2021
- (v) Prev.inspection date : 21/01/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SADANANDPURAM**
- (b) **Registration NO.** : **IBM/536/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : SADANANDPURAM
- Taluka : GURLA
- Post office : SHREERAMNAGAR
- Pin Code :
- FAX No. : 08952-282021
- E-mail :
- Phone : 08952-282021
- (f) Police Station : GARIVIDI
- (g) First opening date : 15/09/1985
- (h) Weekly day of rest : SUN
2. Address for : M/S R.B.S.S.D.& F.N. DAS,
correspondance PO:SRIRAM NAGAR,MANDAL: GARIVIDI,
DIST:VIZIAYANAGARAM.
3. (a) Lease Number : APR0240
- (b) Lease area : 56.84
- (c) Period of lease : 20
- (d) Date of Expiry : 14/09/2025
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : R.B.S.S.D&F.N.DAS
 SHREERAMNAGAR VIZAINAGARAM
 VIZIANAGARAM ANDHRA PRADESH
 Phone:
 FAX :

Owner : M/SRBSSD&F.N.DAS
 SREERAMNAGAR (P) ,
 VIZIANAGARAM VIZIANAGARAM
 ANDHRA PRADESH
 Phone: 0892-282041
 FAX :

Mining Engineer

Name : P.S.K.KISHORE, Part Time
 Qualification : A.M.I.E
 Appointment/ : 03/05/2005
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	31/01/2006
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	31/01/2006
		Mining Scheme rule 12 MCDR1988	14/03/2011
		Modif.approved Mining Scheme	17/12/2014
		MP modif under 17(3) MCR 2016	18/02/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	Entire mineralised area of 13.68 Ha is covered under G1 level of exploration. Non mineralised area - 43.16 Ha	
1e	Balance reserve as on 01/04/20	----	Proved Reserves as on 01/03/2021 - 1.43 million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralised of 13.68 Ha is covered under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2019-20 - K-K' to Q-Q' N100-N500 W100-E200	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed separate benches in overburden and minerals.	Developed separate benches in overburden and minerals.	
2c	Stripping ratio or ore to OB ratio	2019-20 - 1:1.12	2019-20 - 1:1.09	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	2019-20 - 60013 cu.m	2019-20 - 65970 cu.m	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No topsoil generated and overburden generated is stacked in the dump area proposed.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2019-20 - 99999 Te	2019-20 - 21990 Te	Less production due to less market demand and delay in EC approval.
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	
3d	Quantity of mineral reject generation	No proposal	500 Te	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	10-15 %	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method	Manual method sorting is carried out.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting proposed in mineral benches	No drilling and blasting is being carried out in mineral benches	

3k	Provision of mining machineries in mineral benches	Ore benches working is proposed to carry out manually	Ore benches is being worked manually	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain a bench height of 3m in OB and 1.5m in ore	The benches were maintained as per the proposal.	
3m	Total area covered under excavation/pits	15.37 Ha	22.02 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	2019-20 - 1:1.12	2019-20 - 1:1.09	
3o	Total area put in use under different heads at the end of year	44.84 Ha	44.84 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 : 99621 Te 2016-17 : 99971 Te 2017-18 : 99990 Te 2018-19 : 99990 Te 2019-20 : 99999 Te 2020-21 : 100075 Te	2015-16 : 21860 Te 2016-17 : 41710 Te 2017-18 : 22080 Te 2018-19 : 21960 Te 2019-20 : 21990 Te 2020-21 : 74925 Te (till Feb'21)	
3q	General remarks of inspecting officers on method of mining etc.			Opencast mechanised mining method is being carried out.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate OB dump is proposed	Dump developed and maintained as per proposal.	

4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump the OB on the northern and southern side of the lease area.	Dump is maintained in the northern side of the lease area.	
4c	Number of dumps within lease area and outside of lease area	Two within lease area	Two within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	Two active dumps	Two 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.	It was proposed to construct a garland drain and retaining wall around the dump.	Retaining wall and garland drain constructed.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 225m (L) x 0.5m (w) x 0.5m (H) & Garland drain of 100m (L) x 1m (w) x 0.5m (D)	Retaining wall - 300mx1mx1m Garland drain - 300mx1mx1m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Retaining wall and garland drain made around the dump to prevent erosion.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined upto its ultimate pit limit to start backfilling.

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 in time	Submitted in time	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.20 Ha	1.25 Ha	
6d	No. of saplings planted during the year	2019-20 - 300 Nos.	2019-20 - 4000 Nos.	
6e	Cumulative no .of plants	----	Till 2019-20 - 4000 Nos.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2019-20.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	99999 Te	22020 Te	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Below 25 % 25% to 35% 35% to 46%	Mineral sorted as proposed.	
7d	Any beneficiation process at mines .	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral grade between 10-15% is stacked in the earmarked area which will be used for blending with high grade ore.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	

8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for OB is proposed	OB dumps maintained as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2019-20 - 300 Nos.	2019-20 - 4000 Nos.	
8g	Survival rate	---	50%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust supression.	Water tanker is provided for dust supression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Bushes were noticed in the lease area near the dumps.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. A.V.Naidu A.V.Naidu Mining Engineer - Sri. Ashok Reddy Geologist - Sri.UVD Prasad Rao	Manager - Sri. A.V.Naidu Mining Engineer - Sri. Diwakar Geologist - Sri. Ganesh
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open pit - 22.07 Ha Dumps - 7.02 Ha	Same as submitted
9d	Scrutiny of Annual return on afforestation	4000 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated in the mine.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of tonne is Rs.1899.10/-	Amounts mentioned in the cost per tonne calculation is not matching with the total cost in other chapters of the returns. Violation issued as per rule.
9h	Scrutiny of Annual return on fixed assets	Rs.948712/-	----

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 1.100 CUM - 2 SHOVEL (HYDRAULIC) 1.500 CUM - 1 TIPPER 4.000 CUM - 9 WHEEL LOADER 1.500 CUM - 1 WATER TANKER 3000.000 LITRE - 1 GENERATOR (DIESEL) 1.250 KWH - 1 PUMPS (ELEC.) 2790.000 L/MN - 2 PUMPS (NON- ELEC.) 2676.000 L/MN - 1	Machineries available in the mine as per submission.
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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 45(7)	24/03/2021				

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines