

**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 : A.Vishwanath Rao Naidu, Mine Manager, Sri.K.Ashok Red  
Official with  
Designation
- (iv) Date of Inspection : 21/01/2020
- (v) Prev.inspection date : 09/01/2018

**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 correspondance** : **M/S R.B.S.S.D.& F.N. DAS,**  
**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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2015-16 : 9 Core and 3 DTH 2016-17 : 16 Core 2017-18 : NIL 2018-19 : NIL 2019-20 : NIL	25 Core boreholes and 3 DTH were drilled in the year 2017.	
1b	Exploration over lease area for geological axis 1 or 2	2.5Ha area proposed to explored under G1 Axis	13.68 Ha, mineralised area is explored under G1 Axis.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs.4200/meter	A total of Rs.33,65,500 was incurred for the exploration (Rs.4100/- per meter) as reported by the lessee.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Reserves as per previous approved plan is 1839594 Tonnes	Reserves as on 21/01/2020 is 1711074 Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	On section lines L-L, MM', N-N' and O-O' between RLs 93m to 42m.	Mining operations were carried out on section lines P-P' & Q-Q', in the RL upto 25m	Violation issued as per Rule.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for ore and overburden was proposed.	The benches were collapsed in some of the areas.	Violation issued as per Rule.
2c	Stripping ratio or ore to OB ratio	1:1.62	1:1.89	

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	60013 cu.m	40032 cu.m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The benches were collapsed in some of the areas and proposed height of 3m, 6m width of the benches and haul road gradient were not maintained. Violation issued as per rule.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2019-20 : 99999 Te	2019-20 : 20580 Te (till Dec'19)	
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting	Manual sorting carried out.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	No drilling and blasing was proposed	No drilling and blasting is being carried out.	
3k	Provision of mining machineries in mineral benches	Ore benches working is proposed to carry out manually.	Work done as per proposal.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was porposed to maintain a bench height of 3m in OB and 1.5m in ore	The benches were not maintained as per the proposal.	Violation issued as per the rule.
3m	Total area covered under excavation/pits	15.37 Ha	15.50 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.62	1:1.89	
3o	Total area put in use under different heads at the end of year	34.04 Ha	34.04 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	2015-16 : 21860 Te 2016-17 : 41710 Te 2017-18 : 22080 Te 2018-19 : 21960 Te 2019-20 : 20580 Te (till Dec'19)	
3q	General remarks of inspecting officers on method of mining etc.			Deviations found in the benches formation and production area. Violation issued as per rule.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump OB seperately and waste on the northern side of the lease in the existing dump.	Dumps maintained as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump the OB on the northern 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	3 dumps	3 dumps within the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Northwest side of the lease area	As per the proposal dump is maintained	
4e	Number of active and alive dumps.	1 active and 2 old dumps	1 active and 2 old dumps are maintained.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	1	1	
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 not constructed and garland drain was filled with silt.	Violation issued as per rule.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 850m (L) x2m (w) x 1.5m (H) & Garland drain of 850m (L) x2m (w) x 1m(D)	Retaining wall not constructed and garland drain was filled with silt.	
4j	Number of settling ponds	Nil	Nil	

4k	Specific comments of inspecting officer on waste dump management			Retaining wall and garland drain were proposed all around the dump yard to prevent erosion but during inspection the retaining wall was not found to be constructed and the garland drain was filled with silt. Violation issued as per rule.
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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.	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.			Ore was not exhausted in the pit and thus there was not backfilling and reclamation proposed.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual reported to be submitted.	Submitted in time.
6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	0.225 Ha	0.64 Ha
6d	No. of saplings planted during the year	600	1000
6e	Cumulative no .of plants	2310	6000
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Lessee has reported that Rs.60000/- was incurred for watch and care.
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 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)	It was proposed to carry out environmental monitoring in the core and bufferzone.	Monitoring is carried out as per proposal.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	99999 Te	20580 Te upto Dec'19	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	

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7c	Different grade of mineral sorted out at mines.	No proposal	Nil
7d	Any beneficiation process at mines	No proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

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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 proposed	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)	Proposed	Plantation done and maintained	
8g	Survival rate	No proposal	60%	
8h	Water sprinkling on roads to control airborne dust	It was proposed to use water sprinkler to control dust.	Water sprinkling done to control dust.	
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	Returns to be submitted	Returns submitted by the lessee in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist shall be appointed.	Mining Engineer and Geologist appointed as per rule.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 15.37 Ha, Dump - 10.7 Ha	Pit - 15.37 Ha, Dump - 10.7 Ha	
9d	Scrutiny of Annual return on afforestation	600 sapling proposed	1000 saplings planted	
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	Nil	Nil	

- 9g Scrutiny of  
Annual return on  
sale value, Ex.  
Mine price and  
production cost
  - 9h Scrutiny of  
Annual return on  
fixed assets
  - 9k Scrutiny of  
Annual return on  
mining  
machineries
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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
MCDR17	Rule 11(2)	12/02/2020			
MCDR17	Rule 19(1)	12/02/2020			

**Date :**

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines