

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : sri A Viswanath reddy, mine manager & Sri P.Ganesh Ge
Official with
Designation
- (iv) Date of Inspection : 03-MAY-23
- (v) Prev.inspection date : 24-AUG-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SADANANDPURAM**
- (b) **Registration NO.** : **IBM/536/2011**
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : SADANANDPURAM
- Taluka : GURLA
- Post office : SHREERAMNAGAR
- Pin Code : **535 101**
- FAX No. : 08952-282021
- E-mail : rbssdfndasvzm@gmail.com
- Phone : 08952-282021
- (f) **Police Station** : GARIVIDI
- (g) **First opening date** : 15-SEP-85
- (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** : 50
- (d) **Date of Expiry** : 14-SEP-25
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 : MANAVENDRA MOR
 RBSSDN % FN DAS
 SHREERAMNAGAR POST
 VIZIANAGARAM DISTRICT, A.P.
 VIZIANAGARAM ANDHRA PRADESH
 Phone:
 FAX :

Mining Engineer

Name : D SATYANARAYANA, Full Time
 Qualification : BTECH MINING
 Appointment/ : 01-JAN-21
 Termination date

Geologist

Name : P. GANESH, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 01-APR-20
 Termination date

Manager

Name : A VISWANATH NAIDU
 Qualification : BTECH MINING
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	31-JAN-06
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	31-JAN-06
		Mining Scheme rule 12 MCDR1988	14-MAR-11
		Modif. approved Mining Scheme	17-DEC-14
		MP modif under 17(3) MCR 2016	18-FEB-20
		MP modif under 17(3) MCR 2016	26-NOV-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed for the year 2022-23	No exploration carried out during the year 2022-23	The entire potentially mineralised area covered under G-1 level of exploration.
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	No comments as the entire potentially mineralised area covered under G-1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	None
1e	Balance reserve as on 01/04/20	---	The reserves as on 1.4.2023 are 1.221 million tonnes.	No comments to offer.
1f	General remarks of inspecting officers on geology, exploration etc	---		The entire potentially mineralised area covered under G-1 level of exploration. The deposit falls under Khondalite Group.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to carry out the development between the gridlines N-2019958-N2020758 & E-769450-E769750	Same was noticed during the inspection.	No deviation noticed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have separate benches in OB and Mineral.	During the inspection it was observed that there are separate benches in OB and Ore In OB-14 In mineral - 02	No deviation.
2c	Stripping ratio or ore to OB ratio	1:1.39	1:4.10	No comments
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	3,03,995 Cubic meters during 2022-23	Actual reported generation was 3,72,465 Cubic meters	No comments
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	It was proposed to have separate benches in OB and Ore.	Same was noticed during the inspection.	No comments

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	No deviation noticed
3b	Quantity of ROM mineral production proposed	during the year it was proposed to produce 2,18,412 tonnes	Actual production reported during 2022-23 was 90,810 tonnes	a violation letter was issued for deviation in the production.

3c	Recovery of sailable/usable mineral from ROM production	The entire ROM is proposed for sale in market.	Same was confirmed on verifying the records.	None
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	No beneficiation process noticed in the mining lease.
3j	Provision of drilling and blasting in mineral benches	It was proposed to carry out excavating the mineral by way of hydraulic excavator without any blasting	Same was noticed during the inspection.	No deviation.
3k	Provision of mining machineries in mineral benches	It was proposed to utilise excavator and tipper for excavating and transporting the mineral	same was noticed during the inspection	No deviation.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain 6 meters for each bench.	Same was noticed during the inspection.	No deviation.
3m	Total area covered under excavation/pits	21.908 ha	21.805 ha	No comments
3n	Ore to OB ratio for the pit/mine during the year.	1:1.39	1:4.10	No comments
3o	Total area put in use under different heads at the end of year	Pit - 21.908 ha Waste dump - 17.403 ha Others - 3.790 ha	Pit - 21.805 ha Waste dump - 17.403 ha Others - 2.307 ha	No comments
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 99,990 tonnes 2019-20 - 99,990 tonnes 2020-21 - 1,00,075 tonnes 2021-22 - 3,06,865 tonnes 2022-23 - 3,12,017 tonnes	2018-19 - 21,960 tonnes 2019-20 - 21,990 tonnes 2020-21 - 99,905 tonnes 2021-22 - 99,970 tonnes 2022-23 - 90,810 tonnes	A violation letter was issued for deviation in the proposed and achieved production.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump OB separately.	OB was dumped separately.	No deviation.
4b	Location of topsoil, OB and mineral reject dumps	N-2020258 - N-2020858 & E-769150 to E-769450	Same was observed during the inspection.	No deviation.

4c	Number of dumps within lease area and outside of lease area	One	One	No deviation.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The proposed dumps are proposed beyond UPL.	Same was noticed during the inspection.	No deviation.
4e	Number of active and alive dumps.	One	One	None
4f	Number of dead dumps.	One	One	None
4g	Number of dumps established.	One	One	None
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	None	No comments
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	None
4j	Number of settling ponds	Nil	None	None
4k	Specific comments of inspecting officer on waste dump management	It was proposed to dump the OB/waste generated on North west side of the lease.	Same was noticed during the inspection.	No deviation.

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.	Nil	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	None	No area matured for reclamation during the year 2022-23.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	None	No comments as no area matured for reclamation during the year 2022-23.

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).	Yes	Yes	No deviation
6b	Area available for rehabilitation (ha) .	0.119 ha	0.119 ha	No deviation.
6c	afforestation done (ha).	0.119 ha	0.119 ha	No deviation.
6d	No. of saplings planted during the year	1500 no.s	1500 no.s	No deviation
6e	Cumulative no .of plants	---	12037 no.s	No comments
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	---	It was infomred by the lessee that an amount of Rs.3,00,000/- was incurred towards watch and care for the year 2022-23.	No comments

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None	None

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out environmental monitoring in both core and buffer zones.	Same was being carried out and the parameters are found to be in order.	No comments
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	All the progressive mine closure measures as proposed are being implemented by the lessee.	No comments

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to carry out grade wise sorting in the lease	Same was noticed during the inspection.	No deviation.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	No comments.
7c	Different grade of mineral sorted out at mines.	Nil	Nil	None
7d	Any beneficiation process at mines	Nil	Nil	None

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	It was proposed to carry out grade wise sorting wwithin the lease.	Same was being carried out as proposed.	No comments.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	None	None
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It was proposed to have seperate dumps for the OB.	Same was implemented during the inspection.	No comments.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	Except for the plantation made by the lessee, no other plantation was noticed during the inspection.	No comments.

8g	Survival rate	90%	85%	No comments
8h	Water sprinkling on roads to control airborne dust	It was proposed to control the dust suppression by water sprinkling.	same was noticed during the inspection.	No comments.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	The environmental protection measures as envisaged are implemented by the lessee.	The aesthetic beauty of the lease can be termed as average.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The Annual returns and Monthly returns are being submitted in time by the lessee.	Yes	No deviation.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual return 2021-22, Sri Satyanarayana and Sri P.Ganesh are appointed as Mining Engineer and Geologist.	Same was confirmed during the inspection.	No comments.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 21.908 ha Dump - 17.403 ha Others/infra - 3.79 ha	Same was confirmed during the inspection.	No comments
9d	Scrutiny of Annual return on afforestation	1650 no.s	Yes	No comments

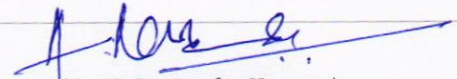
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per the Annual return 2021-22, the production reported was 99.970 tonnes. Further, as per Monthly returns from April 2022 to March 2023, the total production amounts to 90,810 tonnes	Same was confirmed during the inspection.	No comments
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price as per Monthly returns submitted during the year 2022-23 for less than 25% was Rs.4,412/- .25% to 35% - Rs.8065/- per tonne.	Same was confirmed during the inspection.	No comments
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported was seven crore ninety seven lakh rupees.	Same was confirmed during the inspection.	No comments.

9k	Scrutiny of Annual return on mining machineries	1. Hydraulic shovel -3 no.s 2. Tippers - 20 no.s 3. Water tanker - 1 no. 4. Generator - 1 5. Pumps - 2 6. Wheel loader - 1	Same was observed during the inspection.	No comments
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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(1)	09-MAY-23			
MCDR17	Rule 12(4)	09-MAY-23			

Date : 26-05-2023


(A.V. Ramesh Kumar)

Indian Bureau of Mines

