

**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 P S K Kishore, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 29/07/2016
- (v) Prev.inspection date : 02/02/2007

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 VIZIANAGARAM
 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	It was proposed to carry out 06 core boreholes and 05 DTH holes during the year 2015-16.	It was noticed that 06 core boreholes and 05 DTH holes were carried out during the year 2015-16. Total meterage was 2014. A total expenditure of Rs.8,36,400/- was reported by lessee.	None
1b	Exploration over lease area for geological axis 1 or 2	A total of 42 ha area has been explored under G-1 & G-2 axis.	A total of 42 ha has been explored under G-1 & G-2 axis	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal was made for expenditure	A total of Rs8,36,400/- was incurred for the exploration.	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	A balance of 16 ha is remaining to be explored.	It was proposed to explore the remaining area during 2016-17.	None
1e	Balance reserve as on 01/04/20	The reserves figure as date of approval was 18,39,594 Tonnes	The reserves as on 1.4.2016 18,17,734 Tonnes.	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to carry out mining operations in section lines E-E' to G-G, I-I, M-M' between RLs 114 to 57.	It was noticed that the mining operations are being carried out as proposed.	None

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have separate benches in the ore and overburden.	It was noticed that there are separate benches for ore and overburden.	None
2c	Stripping ratio or ore to OB ratio	None	None	None
2d	Quantity of topsoil generation in m3	There is no proposal to generate topsoil.	No topsoil was generated during the year 2015-16.	None
2e	Quantity of overburden generation in m3	It was proposed to generate 96772 tonnes of overburden/waste during the year 2015-16.	The actual waste generated was 65000 Tonnes.	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It is proposed to produce ore from existing two pits.	It was noticed that the production is from existing two pits. The dimensions of the pits are as follows: 1. 703x188x50m 2. 278x40x11m	None
3b	Quantity of ROM mineral production proposed	It was proposed to produce 99621 tonnes during 2015-16	A production of 21860 tonnes was reported during the year 2015-16.	None
3c	Recovery of sailable/usable mineral from ROM production	None	None	None
3d	Quantity of mineral reject generation	None	None	None

3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	None	The ROM is screened manually and sorted for removal of waste material	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting was proposed.	No drilling and blasting was carried out.	None
3k	Provision of mining machineries in mineral benches	As the Mining operation were proposed to be carried out by way of A OTFM.It was proposed to use Excavators for winning the ore.	It was noticed that two Hydraulic shovels are being used for the said purpose.	None
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 3-4 meters.	It was noticed that a bench height of 3-4 meters was being maintained.	None
3m	Total area covered under excavation/pits	At present the total area under excavation is 14.52 ha and it was proposed to add an area of 1.02 ha during the current period.	It was noticed that at present 14.35 ha is under excavation.	None

3n	Ore to OB ratio for the pit/mine during the year.	1:2.6	1:1.8	None
3o	Total area put in use under different heads at the end of year	The total area put to use under different heads is 32.54 ha	At present the total are under various heads is around 32.79 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2011-12 - 100416 Tonnes 2012-13 - 100045 Tonnes 2013-14 - 100104 Tonnes 2014-15 - 73521 Tonnes 2015-16 - 99621 Tonnes	2011-12 - 60804 Tonnes 2012-13 - 85490 Tonnes 2013-14- 64890 Tonnes 2014-15 - 21310 Tonnes 2015-16- 21860 Tonnes	None
3q	General remarks of inspecting officers on method of mining etc.	None	None	The Mine is working as per the proposals made in the Approved document duirng the year 2015-16.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump overburden seperately in the proposed place.it is proposed to dump the waste on the Northern side of the lease in the existing dump.	It was noticed that the overburden/waste is being dumped on the Northern side of the lease.	None
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump the OB on the Northern side of the lease	it was observed that the dumping is being carried out on the Northern side of the lease.	None
4c	Number of dumps within lease area and outside of lease area	There are 03 dumps observed in the lease.	There are 03 dumps in the lease.	None

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	It was proposed to locate the dump on the Northern side of the lease.	The dump was noticed on the proposed location	None
4e	Number of active and alive dumps.	It was proposed to have 01 active dumps	It was noticed that there are 01 active and 02 old dumps. The dimensions are as follows: 1. 516x130x10m 2. 149x75x10m 3. 727x95x4m	None
4f	Number of dead dumps.	03 dumps	03 dumps	None
4g	Number of dumps established.	It was proposed to establish 01 active dump during the proposed period	It was noticed that one active dump in the proposed location during the year 2015-16.	None
4h	Whether Retaining wall or garland drain all along dumps are there.	It was proposed to construct a garland drain	it was noticed that a garland drain of dimensions 850x2x1m was noticed during the year 2015-16.	None
4i	Length of Retaining wall or garland drain all along dumps	850x2x1m during the proposed five year period.	125x1x0.5m	None
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	None

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.	There is no proposal to backfill during the year 2015-16.	There was no proposal to backfill during the year 2015-16.	None
5b	Area under backfilling of mined out area	None	None	None

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None
5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	It was proposed to submit a yearly report under rule 23E(2) of MCDR,1988.	A yearly report was submitted by the lessee.	None
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	It was proposed to plant about 0.168 ha during the year 2015-16	It was noticed that an area of 0.168 ha has been afforested during the year 2015-16.	None
6d	No. of saplings planted during the year	it was proposed to plant 450 No.s	It was noticed that 10000 no.s were planted.	None
6e	Cumulative no .of plants	None	It was noticed that a total of 15500 no.s of plants were planted cumulatively.	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	None	It was reported by the lessee that an amount of Rs.60000/- was incurred by the lessee.	None

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	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 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 the core and bufferone .	It was noticed that environmental monitoring in core and buffer zone is being carried out regularly by Lessee. All the parameters are in the permissible limits.It was reported by the lessee that he has incurred an expenditure of Rs.4,00,000/- for the said purpose duirng the year 2015-16.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to produce 99621 tonnes.	It was reported that 21860 tonnes was produced duirng the year 2015-16.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	It was proposed to carry out manual sorting and screening.	Manual sorting and screening was carried out	None
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines .	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There was no proposal for generating topsoil	It was noticed that no topsoil was generated during the year 2015-16.	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 separate dump for dumping waste.	it was seen that separate dumps have been earmarked for the said purpose.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	None	The plantation proposed by the lessee and few bushes were noticed in the lease.	None
8g	Survival rate	None	It was observed that the survival rate is 70%	None
8h	Water sprinkling on roads to control airborne dust	it was proposed to use water sprinkler to control dust pollution.	it was noticed that water sprinkling is done to control dust suppression.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual and Monthly returns are being submitted online regulalry.	it was observed that Annual and Monthly returns are being submitted online regulalry.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	it was proposed to have Mining Engineer and Geologist employed in the mine.	It was noticed that One Mining Engineer Sri PSK Kishore and one Geologist Sri k Sanyasi Raju are employed in the mine.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	None	It was reported in the annual return that a total of 14.35 ha under excavation and about 11.34 ha under waste dumps and about 6.389 ha under roads and buildings.	None
9d	Scrutiny of Annual return on afforestation	None	it was reported in the Annual return 2015-16 that a total of 10000 plants have been afforested duirng the year 2015-16.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	None	It was reported that 21860 tonnes was produced duirng the year 2015-16.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	None	The ex-mine price reported in the annual return is <25% Mn is Rs.1063/- 25-35% Mn is Rs.1618/- 35-46% Mn is Rs.2998/- The cost of production is reproted as Rs.1378/-	None
9h	Scrutiny of Annual return on fixed assets	None	It was reported in the annual return that 1228712/-	None

9k	Scrutiny of Annual return on mining machineries	It was reported in the annual return that Two shovels of Hydraulic, one tipper, water tanker, wheel loader, one generator and two pumps were reported to be used in the lease.	it was noticed that the above machinery as proposed is being utilised in the lease.	None
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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

Date :
(A.V.Ramesh Kumar)

Indian Bureau of Mines