

**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 : **S41**) **Y M SIVA PRASAD**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : P.S.K.Kishore, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 09/01/2018
- (v) Prev.inspection date : 23/05/2017

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2016-17 16 Nos of core bore holes have been proposed.	The lessee has carried out 25 nos of Core bore holes and 03 nos DTH holes, as proposed in the Approved document.	
1b	Exploration over lease area for geological axis 1 or 2	G 1 scale.	G 1 scale.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	---	
1d	Balance area to be explored to bring Geological axis in 1 or 2	16 ha	16 ha.	
1e	Balance reserve as on 01/04/20	16,24,462 T.	15,540 T.	The balance reserve is on higher side as the anticipated production has not been achieved due to poor market.
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	Production and Development is carried out on Section lines G-G', I-I', J-J', M-M' and N-N'	Production and Development is carried out on Section lines G-G', I-I', J-J', M-M' and N-N' between RLs 102 m to 48 m RL.	
		between RLs 102 m to 48 m RL.		

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Separate benches in ore and OB are maintained as proposed.
2c	Stripping ratio or ore to OB ratio	1: 2.07	1: 2.03
2d	Quantity of topsoil generation in m3	No proposals	N I L
2e	Quantity of overburden generation in m3	89130 Cum.	61128 Cum.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	
3b	Quantity of ROM mineral production proposed	99,990 Tonnes.	15,540 Tonnes. (Upto Dec.2017)	ROM production is less due to poor market condition.
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	
3e	Grade of mineral rejects generation and threshold value declared.	No proposals	N I L	
3f	Quantity of sub grade mineral generation.	NO PROPOSALS	There is no generation of mineral rejects.	
3g	Grade of sub grade mineral generation	No proposals	No generation of sub-grade mineral.	
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.	No such proposals have been made.	N I L	

3j	Provision of drilling and blasting in mineral benches	No proposals	--	No drilling and blasting is required, since OB and Ore are soft in nature.
3k	Provision of mining machineries in mineral benches	Yes.	Provision is made for movement of machinery.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	The benches in OB and mineral have been made as per the proposals made in the approved document.	
3m	Total area covered under excavation/pits	14.78 ha.	14.71ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.83	1:2.6	
3o	Total area put in use under different heads at the end of year	33.06 ha.	32.98 ha	
3p	Production of ROM mineral during the last five year period as applicable	2013-14 = 1,00,104 T. 2014-15 = 73,521 T, 2015-16=99,621 T, 2016-17= 99,621 T. & 2017-18= 99,990 Tonnes.	2013-14= 64,890 T. 2014-15= 21,310 T, 2015-16= 21,860 T. 2016-17= 30,180 T. & 2017-18= 15,540 T. (upto Dec.2017)	
3q	General remarks of inspecting officers on method of mining etc.	Semi-mechanised opencast method of mining is proposed.	As proposed semi-mechanised method of mining is carried out without adopting drilling and blasting.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of OB is proposed.	As proposed seperate waste dumping is done.	

4b	Location of topsoil, OB and mineral reject dumps	OB is proposed to be dumped on North western corner of the ML area.	As proposed the OB is dumped on the existing dump on the North Western part of the ML area.	
4c	Number of dumps within lease area and outside of lease area	03 dumps exists within the ML AREA.	Out of three dumps only one dump is active which exists on the North Western side of the ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps have been proposed beyond UPL.	The dumps exists beyond UPL.	
4e	Number of active and alive dumps.	All the dumps are alive.	All the dumps are alive, However there is one dump is active which exists on the North Western part of the ML area,	
4f	Number of dead dumps.	N I L	---	
4g	Number of dumps established.	None.	---	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	Retaining wall and garland drains have been made.	
4i	Length of Retaining wall or garland drain all along dumps	850m L x 2m W x 1m D garland drain. 850m L x 2mW x 1.5m height retaining wall.	The construction of retaining wall and Garland drain is under progress.	The given dimension proposals are for the five years period.
4j	Number of settling ponds	N I L	---	
4k	Specific comments of inspecting officer on waste dump management	The waste material is in the form weather Khondalite and which is proposed to be beyond UPL.	As proposed the waste material is dumped beyond UPL on North Western part of the ML area.	

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.	Noproposals	---	
5b	Area under backfilling of mined out area	No proposals	----	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	----	
5d	Total area fully reclaimed and rehabilitated	No proposals	---	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No backfilling and reclamation proposals have been made.	----	The mineral is continuing at depth.

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.	The yearly report for the year 2016-17 is submitted.	
6b	Area available for rehabilitation (ha) .	No proposals.	N I L	
6c	afforestation done (ha).	Yes.	Yes. Done.	
6d	No. of saplings planted during the year	During the year 2017-18, 650 saplings have been proposed.	350 saplings have been planted.	
6e	Cumulative no .of plants	10,000. saplings.	Around 15,850 saplings.	
6f	Any other method of rehabilitation	No proposals.	---	

6g	Cost incurred on watch and care during the year	No proposals.	-----	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals.	---	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	---	---
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	---	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	----	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	---	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation is proposed in the non mineralised area.	As proposed	afforestation is done in the non mineralised area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	5.2 ha by means of afforestation.		Afforestation is done over an extent of 5.25 ha in the non mineralised area.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Rehabilitation by means of afforestation proposed.	As proposed rehabilitation in the non mineralised areawith in ML area has been done.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring Environmental parameters is proposed.	Periodical monitoring of Environmental parameters is done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environmental protective measures and Monitoring of environmental parameters is proposed.	As proposed Environmental protective measures and Monitoring of environmental is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM proposed for despatch=99,99 0 T, Entire ROM is meant for selling.	ROM despatched = 15,540 tonnes (upto Dec.2017)	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	+ 10% Mn.	+ 10% Mn content.	
7d	Any beneficiation process at mines	None.	----	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The entire ROM is meant for sale.No beneficiation is proposed.	The entire ROM is sold out.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	---
8b	Concurrent use or storage of topsoil	No proposals	---
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Sepearate OB dump is proposed.	OB dump is dumped seperately beyond UPL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	---
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional plantation tothe existing plantation is proposed.	Additional plantation 450 saplings have been done.
8g	Survival rate	80%	70%
8h	Water sprinkling on roads to control airborne dust	Yes.	Water sprinkling is done on haul roads periodcally.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is proposed toimprove the aesthetic beauty in and around the mines area.	Plantation is done in and around tjhe ML area has improved the aesthetic beautytjhe mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly returns and Annual returns are to be submitted as per Statuete.	Monthly returns are submitted upto March 2018. Annual return for the year 2017-18 is due as on June 2018.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be furnished.	Furnished.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished .	Furnished.
9d	Scrutiny of Annual return on afforestation	To be furnished	400 Saplings have been done.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished.	N I L
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	ROM stock furnished to be nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	Rs 2838/-.
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Mining machinery details have been furnished.

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 :

(Y M SIVA PRASAD)

Indian Bureau of Mines