

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

**MCDR inspection REPORT**

**Hyderabad regional office**

Mine file No : AP/VZNR/MN-A2/HYD

Mine code : 40APR20045

- (i) Name of the Inspecting : KQ07 ) SHAIVAL KARTIKEYA  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Karna Ashok Reddy, Manager (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 26-AUG-22
- (v) Prev.inspection date : 28-FEB-20

**PART-I : GENERAL INFORMATION**

1. (a) Mine Name : AVAGUDAM
- (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 : AVAGUDAM  
Taluka : GARIVIDI  
Post office : VEDULLAVALASA  
Pin Code :  
FAX No. : 08952-282021  
E-mail : montymor@rediffmail.com  
Phone : 08952-282129
- (f) Police Station : GARIVIDI
- (g) First opening date : 08-MAR-68
- (h) Weekly day of rest : SUN
2. Address for : M/S RBSSD & FN DAS  
correspondance : SREERAM NAGAR  
GARIVIDI, VIZIANAGARAM DT.
3. (a) Lease Number : APR1283
- (b) Lease area : 13.87
- (c) Period of lease : ~~20~~ 50 yrs.
- (d) Date of Expiry : ~~31-MAR-20~~  
06-DEC-2025
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : M/S RBSSD &FN DAS  
M/S RBSSD &FN DAS PO  
SHREERAMNAGAR  
DIST:VZIANAGARAM  
VIZIANAGARAM ANDHRA PRADESH  
Phone: NIL.  
FAX : NIL

Owner : M/S RBSSD &FN DAS  
M/S R B S S D & F N DAS T U  
M S A R, DIST  
VIZIANAGARAM. VIZIANAGARAM  
ANDHRA PRADESH  
Phone: 089522---- 2021  
FAX : NIL

Agent : K.V.MAHESWARA RAO  
SHREERAM NAGAR GARIVIDI RS  
VIZIANAGARAM-535101  
VIZIANAGARAM ANDHRA PRADESH  
Phone:  
FAX :

## Mining Engineer

Name : Shri Karna Ashok Reddy, Full Time  
Qualification : B. Tech. (Mining)  
Appointment/ : 01-JAN-21  
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12-FEB-04
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	31-JAN-06
	:	Mining Scheme rule 12 MCDR1988	06-FEB-09
	:	Modif.approved Mining Scheme	04-APR-11
	:	Mining Scheme rule 12 MCDR1988	17-DEC-13
	:	MP modif under 17(3) MCR 2016	19-SEP-16
	:	FMCP under 23C(1)	25-NOV-19
	:	MP modif under 17(3) MCR 2016	14-MAR-22

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	NIL	The entire mineralized zone has been explored under G1 level.  Based on the previous exploration G1 level: 7.751 Ha. Non-mineralized: 6.117 Ha.
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	NIL.	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned in the approved document.	NIL, as no exploration has been done during F.Y. 2021-22.	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	NIL.	-do-

1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2022	Balance reserves as on 01.04.2022	NIL production has been reported during F.Y. 2021- 22
		Under (111): 0.71685 Million Tonnes	Under (111): 0.71685 Million Tonnes	Average grade of Manganese Mn: 25.07%
				Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).
				Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.
				Supplementary lease deed has been executed on 21/04/2022.
				Mine was reopened on 21/04/2022.

1f	General remarks of inspecting officers on geology, exploration etc	The host rock of manganese in Vizianagram-Visakhapatnam belt are Khondalites and Charnokites belongs to Dharwar Supergroup of Precambrian age which forms a part of the Eastern Ghat Complex. The manganese ore mineralization is mainly associated with garnetiferous quartzites and calc granulites with intercalations of pockets of clay and lithomarge and occurrence of manganese ore with chert at margins of some of the ore bodies suggest that some of the mineralization is also from garnet granulites.	The lease area is a part of Archean terrain consisting of Biotite Gneisses, Garnet Sillimanite Gneisses, Feldspathic Quartzites, Calc Granulites, Quartz Veins etc. The manganese ore horizon is in conformation with Calc Granulite. The Garnet Gneisses occurs intermittently with Kaolin or Red loam. Garnet Gneisses with Kaolin are predominant in the area.	The lithomarge (a compact massive form of Kaolin, considered as claystone) is generally yellow to brown in colour and at the contacts of the ore body; it is dull grey due to presence of Manganese Oxide termed as Wad. The Manganese form intrusive contact on both the sides by Calc gneisses/Kaolin. The in the pits is generally Psilomelane - brown, brownish black to black in colour and it is friable in nature.
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## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	F.Y. 2021-22: In between UTM co-ordinates N2031000 to N2031125 and E768025 to E768088	No production and development have been done during F.Y. 2021-22.  Currently, production and development are being done within the proposed co-ordinates.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB/Waste: 05 nos. Mineral/Ore: 02 nos.	-do-	-do-
2c	Stripping ratio or ore to OB ratio	1 : 0.65	-do-	-do-
2d	Quantity of topsoil generation in m3	No proposal.	NIL.	-do-
2e	Quantity of overburden generation in m3	3515.00 CuM	No production and development have been done during F.Y. 2021-22.	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine was reopened on 21/04/2022.

## Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	01 no.	No production and development have been done during F.Y. 2021-22.  Currently working is being done in the exiting pit.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.
3b	Quantity of ROM mineral production proposed	12104.40 Metric Tonnes	No production and development have been done during F.Y. 2021-22.	-do-
3c	Recovery of sailable/usable mineral from ROM production	70%	-do-	-do-
3d	Quantity of mineral reject generation	No proposal.	NIL.	-do-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	NIL.	-do-
3f	Quantity of sub grade mineral generation.	No proposal.	NIL.	-do-
3g	Grade of sub grade mineral generation	No proposal.	NIL.	-do-

3h	Manual / Mechanised method adopted for segregating from ROM	ROM will be screened manually and sorted for removal of waste/gangue material.	No production and development have been done during F.Y. 2021- 22.	-do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	NIL.	-do-
3j	Provision of drilling and blasting in mineral benches	No proposal has been given in the approved document for drilling and blasting, as the ore/mineral is soft and friable in nature.	NIL.	-do-
3k	Provision of mining machineries in mineral benches	1. Excavator/Shov el 02 no. with 0.90 CuM bucket capacity 2. Tippers 20 nos. with 5.0 CuM carrying capacity 3. Water Tanker 01 no. with 5000 Liters capacity 4. Crawler Bulldozer 01 no. with 100 HP capacity.	No production and development have been done during F.Y. 2021- 22.	-do-



3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height: OB/Waste: 4.0 m to 5.0 m Mineral/Ore: 6.0 m to 8.0 m	-do-	-do-
3m	Total area covered under excavation/pits	7.751 Ha. up to end of F.Y. 2021-22	-do-	-do-
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.65	-do-	-do-
3o	Total area put in use under different heads at the end of year	Pit- 7.751 Ha. Waste/reject- 2.597 Ha. Others- 1.06 Ha. Up to end of F.Y. 2021-22	-do-	-do-
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2017-18: 62142.50 Metric Tonnes Yr. 2018-19: 64699.75 Metric Tonnes Yr. 2019-20: 66833.00 Metric Tonnes Yr. 2020-21: No proposal. Yr. 2021-22: 12104.40 Metric Tonnes	Yr. 2017-18: 13370.00 Metric Tonnes Yr. 2018-19: 49990.00 Metric Tonnes Yr. 2019-20: 49930.00 Metric Tonnes Yr. 2020-21: Nil Production. Yr. 2021-22: Nil Production.	-do-
3q	General remarks of inspecting officers on method of mining etc.			Mine was reopened on 21/04/2022.

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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)	Proposal has been given in the approved document for separate dumping/stacking of OB/Waste and Mineral/Ore in the earmarked locations within lease area.	No production and development have been done during F.Y. 2021-22.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).
				Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.
				Supplementary lease deed has been executed on 21/04/2022.
4b	Location of topsoil, OB and mineral reject dumps	In between UTM co-ordinates:	-do-	-do-
		OB/Waste: (1) Dump No. 2: N2031060 to N2031105 and E768207 to E768278		
		(2) Dump No. 1: N2030945 to N2031265 and E767936 to E768185		
		Mineral Stock Yard: N2030862 to N2030930 and E768070 to E768238		
4c	Number of dumps within lease area and outside of lease area	Within lease area: 02 nos. Outside lease area: NIL	-do-	-do-

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond ultimate pit limit.	Part of the Waste Dump no. 1 is situated within ultimate pit limit and Waste Dump no. 2 is situated beyond ultimate pit limit.	-do-
4e	Number of active and alive dumps.	02 nos.	No production and development have been done during F.Y. 2021-22.	-do-
4f	Number of dead dumps.	No proposal.	NIL.	-do-
4g	Number of dumps established.	No proposal.	NIL.	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	NIL.	-do-
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	NIL.	-do-
4j	Number of settling ponds	No proposal.	NIL.	-do-
4k	Specific comments of inspecting officer on waste dump management			Mine was reopened on 21/04/2022

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	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, as the mineral/ore has not been mined-out completely from the existing pit.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.
5b	Area under backfilling of mined out area	No Proposal.	Nil, as the mineral/ore has not been mined-out completely from the existing pit.	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal.	NIL.	-do-
5d	Total area fully reclaimed and rehabilitated	No Proposal.	Nil, as the area not matured for reclamation and rehabilitation.	-do-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine was reopened on 21/04/2022.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not submitted.	Violation has been issued.	-
6b	Area available for rehabilitation (ha) .	No Proposal.	NIL.	-
6c	afforestation done (ha).	No Proposal.	NIL.	-
6d	No. of saplings planted during the year	No Proposal.	NIL.	-
6e	Cumulative no .of plants	No Proposal.	NIL.	-
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 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	100 nos.	Not done.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.15 Ha.	Not done.	-do-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By Plantation.	NIL.	-do-

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	No production and development have been done during F.Y. 2021-22.	-do-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mine was reopened on 21/04/2022.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual screening and sorting of the manganese ore from the ROM has been proposed.	No production and development have been done during F.Y. 2021-22.  Currently, manual screening and sorting from the ROM is being done.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	-do-	-do-	-do-

7c	Different grade of mineral sorted out at mines.	No proposal.	NIL.	-do-
7d	Any beneficiation process at mines	No proposal.	NIL.	-do-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mine was reopened on 21/04/2022.

#### Environment:

Sl.No.	Item	Proposals	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)	Separate dumping of Waste/OB has been proposed in between UTM co-ordinates  (1) Dump No. 2: N2031060 to N2031105 and E768207 to E768278.  (2) Dump No. 1: N2030945 to N2031265 and E767936 to E768185	No production and development have been done during F.Y. 2021-22.  The present dumping is being done over waste dump no. 2.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.



8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Plantation in West side of the lease area. through 100 nos. of saplings over 0.15 Ha.	Not done.	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	NIL.	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 nos. of saplings will be planted over an area of 0.15 Ha. at Western side of the lease area.	Not done.	-do-
8g	Survival rate	Expected survival rate: 60%	NIL plantation has been done during F.Y. 2021-22.	-do-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	No production and development have been done during F.Y. 2021-22.	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mine was reopened on 21/04/2022.

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**Compliance of Rule 45:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to August 2022. A.R. Submitted up to F.Y. 2021-22.	M.R. Submitted up to August 2022. A.R. Submitted up to F.Y. 2021-22.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Divakar Reddy Mining Engineer: Shri Divakar Reddy Geologist: Shri Ganesh Pappala	Manager: Shri Karna Ashok Reddy w.e.f. 17/03/2022 Mining Engineer: Shri Karna Ashok Reddy w.e.f. 17/03/2022 Geologist: Not appointed.	Violation has been issued for non appointment of Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 6.493 Ha. Waste/reject- 2.52 Ha. Others- 0.98 Ha.	No production and development have been done during F.Y. 2021-22.	Mining lease has been lapsed during F.Y. 2020-21 (01/04/2020 to 20/04/2022).  Period of the mining lease has been extended up to 06/12/2025 vide Proceeding No. 301/M/1987 dated 21/04/2021 issued by the ADMG Vizianagram Govt. of A.P.  Supplementary lease deed has been executed on 21/04/2022.
9d	Scrutiny of Annual return on afforestation	Within lease area: NIL Outside lease area: NIL	Within lease area: NIL Outside lease area: NIL	-do-

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral-reject: NIL Grade: NIL	Mineral-reject: NIL Grade: NIL	-do-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Grade Wise: NIL	Closing Stock: ROM: NIL Grade Wise: NIL	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: NIL Cost of Production: NIL Ex-Mine Price: NIL	Sale value: NIL Cost of Production: NIL Ex-Mine Price: NIL	-do-
9h	Scrutiny of Annual return on fixed assets	Rs. 10976675/-	Rs. 10976675/-	-do-
9k	Scrutiny of Annual return on mining machineries	NIL information given.	No production and development have been done during F.Y. 2021-22.	-do-

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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 : 19/09/2022

शैवाल कार्तिकेय  
(SHAIVAL KARTIKEYA) 19/09/2022

Indian Bureau of Mines