

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/VZNR/MN-124/HYD

**Mine code :** 40APR20070

- (i) Name of the Inspecting : **RK13** ) **A.V.Ramesh Kumar**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Asok Konda, Nominated owner.  
Official with  
Designation
- (iv) Date of Inspection : 23-SEP-23
- (v) Prev.inspection date : 01-JUL-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KARLAM MANGANESE MINE**
- (b) **Registration NO.** : **IBM/732/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : KARLAM
- Taluka : CHIPURUPALLI
- Post office : METTAPALLI
- Pin Code : 535125
- FAX No. :
- E-mail : mines@sarawagi.com
- Phone : 09704988444
- (f) Police Station : CHIPURAPALLI
- (g) First opening date : 01-FEB-85
- (h) Weekly day of rest : SUN
2. Address for : M/S S.K. SARAWAGI & CO (P) LTD,  
correspondance PO:CHIPURAPALLI,  
DIST: VIZIYANAGARAM.
3. (a) Lease Number : APR2380
- (b) Lease area : 17.63
- (c) Period of lease : 50
- (d) Date of Expiry : 13-AUG-57
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : SK SARAWAGI AND (P)CO LTD  
 VIZIANAGARAM ANDHRA  
 PRADESH  
 Phone:08952 83225 &83374  
 FAX :

Owner : M/S.S.K.SARAWAGI\$CO.(P)LTD.  
 CHIPURUPALLI VIZIANAGARAM  
 ANDHRA PRADESH  
 Phone:  
 FAX : 08952-280042

Agent : B CHANDRASEKHAR  
 M/s S K Sarawagi & Co  
 Waltair Uplands  
 Visakhapatnam VIZIANAGARAM  
 ANDHRA PRADESH  
 Phone: 9346546023  
 FAX :

## Mining Engineer

Name : SIVA KUMAR REDDY,Full Time  
 Qualification : BTECH MINING  
 Appointment/ :  
 Termination date

## Geologist

Name : M KOTESWARA RAO,Full Time  
 Qualification : MSC GEOLOGY  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	28-APR-06
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	29-SEP-20
	:	MP review under 17(1) MCR 2016	11-JAN-22

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2022-23.	No exploration was carried out during the year 2022-23.	No deviation.
1b	Exploration over lease area for geological axis 1 or 2	---	The entire potentially mineralised area was explored under G-1 scale of exploration.	No remarks.
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	Nil	None	None
1e	Balance reserve as on 01/04/20	---	The reserves as on 1.4.2023 are 81,910 tonnes	No comments to offer.
1f	General remarks of inspecting officers on geology, exploration etc	---	---	The entire potentially mineralised area has been explored.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work in the pits located on the South Eastern side of the lease.	Same was noticed during the exploration.	No deviation.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	two benches in OB,Three benches in ore.	Same was noticed during the inspection.	No deviation.
2c	Stripping ratio or ore to OB ratio	1:0.832	1:0.9	No comments to offer.

2d	Quantity of topsoil generation in m3	No topsoil is there in lease, hence no proposal was made.	No topsoil generation was reported during the year 2022-23.	No deviation.
2e	Quantity of overburden generation in m3	It was proposed to generate 29500 cubic meters during the year 2022-23.	The actual OB reported was 33000 cubic meters.	No comments
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	None	None

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	No deviation.
3b	Quantity of ROM mineral production proposed	It was proposed to produce 40,179 tonnes.	The actual production reported was 1830 tonnes	No comments
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	None
3d	Quantity of mineral reject generation	Nil	None	None
3e	Grade of mineral rejects generation and threshold value declared.	Nil	None	None
3f	Quantity of sub grade mineral generation.	Nil	None	None
3g	Grade of sub grade mineral generation	Nil	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	None	None

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	None	None
3j	Provision of drilling and blasting in mineral benches	None	None	None
3k	Provision of mining machineries in mineral benches	It was proposed to use excavators and tipperas for winning and transporting the mineral/ore.	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	3-4 meters	3-4 meters	No deviation.
3m	Total area covered under excavation/pits	---	The area under pits - 2.095 ha Waste dump - 0.774 ha Infrastructure - 1.799 ha	No comments to offer.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.832	1:0.9	No comments to offer.
3o	Total area put in use under different heads at the end of year	---	Pits - 2.095 ha dump - 0.774 ha infrastructure - 0.400 ha	No comments to offer.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - Nil 2019-20 - Nil 2020-21 - 26136 tonnes 2021-22 - 12200 tonnes 2022-23 - 41000 tonnes	2018-19 - Nil 2019-20 - Nil 2020-21 - 2630 tonnes 2021-22 - 2408 tonnes 2022-23 - 1830 tonnes	No deviation.
3q	General remarks of inspecting officers on method of mining etc.	--	---	There is no deviation in the production proposed and reported.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes it was proposed to dump the OB seperately.	During the inspection it was noticed that one active dump between gridlines N2025048-N2025145 & E 779128-E779206.	No deviation.
4b	Location of topsoil, OB and mineral reject dumps	one active dump between gridlines N2025048-N2025145 & E 779128-E779206.	During the inspection it was noticed that one active dump between gridlines N2025048-N2025145 & E 779128-E779206.	No deviation.
4c	Number of dumps within lease area and outside of lease area	One within ML	One within ML	No deviation.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	No comments
4e	Number of active and alive dumps.	One	One	No deviation.
4f	Number of dead dumps.	Nil	Nil	None
4g	Number of dumps established.	Nil	None	None
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
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
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	None	None	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	No area matured for reclamation till date.

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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 comments
6b	Area available for rehabilitation (ha) .	0.5 ha	0.5 ha	No comments
6c	afforestation done (ha).	0.5 ha	0.5 ha	No comments
6d	No. of saplings planted during the year	250 no.s	250 no.s	No comments
6e	Cumulative no .of plants	---	600 no.s	No comments
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	---	Rs.2,00,000/-	No comments.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	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)	Nil	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)	None	All the parameters are within permissible limits.	No comments

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil	No comments
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There is no proposal for grade wise sorting in the lease area.	No grade wise sorting was noticed in the lease area.	No comments.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	None
7c	Different grade of mineral sorted out at mines.	Nil	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

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	None	None

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes separate dump for OB was proposed.	Separate dump for OB was noticed.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
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 lessee, few bushes and shrubs were noticed in the lease area.	No comments
8g	Survival rate	---	80%	No comments
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust by way of water sprinkling.	Same was noticed during the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	None	None

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	--	The Monthly and annual return are submitted in time by lessee.	No deviation.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the annual return 2022-23, Sri Siva Kumar Reddy and Sri Koteswara rao 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.	Pits - 2.095 ha Infrastructure - 1.799 ha Pits - 2.095 ha Dump - 0.774 ha	Same was noticed during the inspection.	No comments
9d	Scrutiny of Annual return on afforestation	250 no.s	250 no.s	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	1830 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 reported as per annual return was 4371/-	Same was confirmed during the inspection.	No comments
9h	Scrutiny of Annual return on fixed assets	8.60 crores	No scrutiny was taken up.	No comments
9k	Scrutiny of Annual return on mining machineries	Tipper - 2 no.s Shovel(Hydraulic) - 1 no. Water Tanker - 1 no. Wheel loader - 1 no.1	Same was noticed 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

**Date :**

**(A.V.Ramesh Kumar)**

Indian Bureau of Mines