

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

Mining Plan inspection REPORT

Hyderabad regional office

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

Mine code : 40APR20070

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Dr B S Ganga Rao, QP & Sri Ashok Konda, Nominated Own
Official with
Designation
- (iv) Date of Inspection : 24/11/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARLAM MN 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 :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail : **mines@sarawagi.com**
Phone : **09704988444**
- (f) Police Station : **CHIPURAPALLI**
- (g) First opening date : **01/02/1985**
- (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 : **20**
- (d) Date of Expiry : **13/08/2027**
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.DASARADHA RAO
SK SARAWAGI HOUSE KASPA
STREET, CHEEPURPALLY
VIZIANAGARAM DISTRICT
VIZIANAGARAM ANDHRA PRADESH
Phone: 9346546027
FAX :

Manager
Name : N.SRIRAM
Qualification : FOREMANS CERTIFICATE HOLDER
Appointment/ :
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 28/04/2006

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	1.Four trenches of each of 10mx3mx3m dimension. 2.Six DTH boreholes aggregating total 120 mts to establish depth continuity of ore body.	1. 21 core boreholes drilled in the year 2018-19 covered 192.0 mts. (CBH 1 to CBH-22) 2. 6 DTH boreholes covering 288 mts drilled in the year 2018-19. 3. 24 Trail Pits were Excavated (P 1 to P 24)	-
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Mineralized area has been covered in G2 scale by exploring 1. 21 core boreholes drilled in the year 2018-19 covered 192.0 mts. (CBH 1 to CBH-22) 2. 6 DTH boreholes covering 288 mts drilled in the year 2018-19. 3. 24 Trail Pits were Excavated (P 1 to P 24)	2018-19
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	G1:1.36 Ha, G2 about 2.0 Ha, is explored so far, remaining about 14.0 Ha to be explored.	
1e	Balance reserve as on 01/04/20		As per the approved Mining Plsn" Proved Mineral Reserves : 14, 280 MT Probable Mineral reserves : 13,680 MT Inferred Mineral resources : 13,600 MT	Reserves/ resources needs to be assessed based on recent exploration carried out

1f	General remarks of inspecting officers on geology, exploration etc	<p>The lease area is explored by 6 DTH bore holes , 22 Core Bore holes and 24 trial pit during the year 2018-19 with meterage of 92.5 mts . reserves/ resources needs to be assessed based on the above exploration.</p> <p>Topography is plane land. Most of the lease area is formed by Khondalite & Quartzite and vein of Manganese is on southern side of lease. The Manganese ore is probably confirmed to the zone of weathering in Khondalite. The major Manganese vein is formed in the strike direction of NW-</p>
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposal	Nil	RMP was due and Mine was suspended by IBM on 17.11.2013
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Nil	
2c	Stripping ratio or ore to OB ratio	No Proposal	Nil	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	No proposal	Nil	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Mine was suspended by IBM on 17.11.2013
Four pits are present in the mining lease area with the dimensions as below:
Pit-1: 158 m x 60 m x 7 m, Pit-2: 217 m x 61 m x 12 m, Pit-3: 64 mx 28 m x 4 m & Pit-4: 33 m x 40 m x 6 m is observed in the lease area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No Proposal	Nil	Four pits are present in the mining lease area with the dimensions as below: Pit-1: 158 m x 60 m x 7 m, Pit-2: 217 m x 61 m x 12 m, Pit-3: 64 mx 28 m x 4 m & Pit-4: 33 m x 40 m x 6 m is observed in the lease area.
3b	Quantity of ROM mineral production proposed	No proposal	Nil	
3c	Recovery of sailable/usable mineral from ROM production	No Proposal	Nil	
3d	Quantity of mineral reject generation	No Proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Threshold valur as per IBM is 10% Mn content. Reserves/ resources are yet to be assessed based on recent exploration.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	

3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NA	
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil	
3k	Provision of mining machineries in mineral benches	No proposal	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal	Nil	Bench height of 3.0 meters is observed
3m	Total area covered under excavation/pits	No proposal	1.666 Ha area under excavation of pits so far.	
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil	
3o	Total area put in use under different heads at the end of year	No proposal	Nil	Excavation-1.666 Ha, Mineral Storage :0.125 ha, wastedump : 0.15 Ha, infrastructure : 0.1 Ha, so far
3p	Production of ROM mineral during the last five year period as applicable	No proposal	Nil	Mine was suspended by IBM on 17-11-2013
3q	General remarks of inspecting officers on method of mining etc.		Opencast manual method of opencast mining was proposed earlier. Four Pits are observed in the lease area in strike line of the deposit.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposal	Nil	No fresh mining operations were observed as mine was suspended by IBM on 17.11.2013
4b	Location of topsoil, OB and mineral reject dumps	No Proposal	Nil	One Ob dump is found within lease area on Northern side between ML pillars 27 & 28
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	One dump is found within the lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	OB dump found outside UPL
4e	Number of active and alive dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	
4j	Number of settling ponds	No Proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management		Mine was not in operation during inspection. However there exist one OB dump within the lease area on Northern side, no impact to the surrounding area is anticipate from the dump.	

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.	No Proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area is matured for backfilling, hence no backfill	Nil

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).	To be submitted regularly	No submitted, as no valid approved proposals in the form of RMP and also Mining operations were suspended since 17/11/2013.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	No area matured for reclamation
6c	afforestation done (ha).	Not applicable	Nil	
6d	No. of saplings planted during the year	No proposal	Nil	
6e	Cumulative no .of plants	No proposl	Nil	Non mineralised area has been thickly planted with fruit bearing trees of Mango, Kaju
6f	Any other method of rehabilitation	No proposals	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	During the inspection it was observed that non mining area has been thickly planted with fruit bearing trees of Mango & Kaju	

6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposal	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mining operations were suspended by IBM on 17/11/2013 and there is no approved proposals of PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mine was not in operation during inspection and also mine was suspended by IBM on 17.11.2013		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	2018-19

8b	Concurrent use or storage of topsoil	No proposal	Not applicable at present	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	One OB dump is observed on Northern side of the lease area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		Not applicable at present	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Nil	Majority of the un- broken lease area is covered with thick plantation of Kaju and Mango.
8g	Survival rate	No proposal	Nil	
8h	Water sprinkling on roads to control airborne dust	No proposal	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Mine was not in operation during inspection and also mine was suspended by IBM on 17.11.2013. Un-broken area is planted with Kaju and Mango and increase the greenery in the lease 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	Returns To be submitted regularly	Not Submitted through online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O/C) Workings : 3.0 Ha, Waste Dumping : 2.5 Ha,	Broadly talling, as Surface plan submitted in the document was not updated with actual field condition, the above land use pattern be confirmed during the final approval of mining plan document
9d	Scrutiny of Annual return on afforestation	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines