

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

**Review and updation of Mining Plan REPORT**

**Hyderabad regional office**

**Mine file No :** AP/VZNR/MN-108/HYD

**Mine code :** 40APR20042

- (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, Director , Sri M Koteswara Rao, Geologis  
Official with  
Designation
- (iv) Date of Inspection : 12/10/2022
- (v) Prev.inspection date : 01/02/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PARAMESWARI MN MINE**
- (b) **Registration NO.** : **IBM/732/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : PEDDANADIPALLI
- Taluka : CHIPURUPALLI
- Post office : METTAPALLI
- Pin Code : 535125
- FAX No. : 08952-280042
- E-mail : mines@sarawagi.com
- Phone : 08952-283225
- (f) Police Station : CHEEPURUPALLI
- (g) First opening date : 07/06/1993
- (h) Weekly day of rest : SUN
2. Address for : M/S.S.K.SARAWAGI\$CO.(P)LTD  
correspondance : CHIPURUPALLI,  
VIZIANAGARAM
3. (a) Lease Number : APR0337
- (b) Lease area : 9.39
- (c) Period of lease : 20
- (d) Date of Expiry : 06/06/2023
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : S.K.SARWAGI &CO (P)LTD  
S.K. SARWAGI &CO (p)LTD PO  
CHIPURA PALLI VIZIANAGARAM.  
VIZIANAGARAM ANDHRA PRADESH  
Phone:3225 3240  
FAX :91 089522 3374.

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

Agent : D KIRAN  
M/S S K SARAWAGI & CO  
CHEEPURUPALLI VIZIANAGARAM  
DISTRICT VIZIANAGARAM  
ANDHRA PRADESH  
Phone:  
FAX :

## Mining Engineer

Name : P ARUN JYOTHI,Full Time  
Qualification : B TECH MINING  
Appointment/ :  
Termination date

## Geologist

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

6. Date of approval of Mining : Renewal under rule 22 MCR1960 14/08/2003  
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 23/04/2018

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

## Exploration :

| Sl.No. | Item  | Proposals  | Actual work  | Remarks  |
|--------|---|--|--|--|
| 1a     | Backlog of previous year  | During the year 2020-21, Three boreholes were proposed, which were not drilled. A Violation letter was issued for not carrying out the proposed exploration. | During the year 2021-22, Three boreholes were drilled with a total meterage of 90 meters.      | No violation observed.   |
| 1b     | Exploration over lease area for geological axis 1 or 2              | No exploration was proposed during the year 2021-22.   | Three boreholes were drilled during the year 2021-22, which were proposed in the year 2020-21. | The entire potentially mineralised area covered under G1 level.  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | None   | Three boreholes were drilled incurring an expenditure of Rs,2,00,000/-                         | No remarks to be made.   |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | None   | The entire potentially mineralised area explored under G1 level.                               | No remarks to be made.   |
| 1e     | Balance reserve as on 01/04/20                                      | ---  | The reserves as on 1.4.2022 are 1.11 Million tonnes  | No remarks to be made.   |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | No exploration was proposed during the year 2021-22.   | Three boreholes were drilled during the year 2021-22 which were proposed in the year 2020-21.  | No remarks to be made. The lease area falls under Eastern Ghat mobile belt with Khondalites and charnokites as host rocks. |

## Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

|    |   |  |  |  |
|----|---|--|--|--|
| 2a | Location of development w.r.t.lease area  | The pit was proposed to be developed between gridlines E 100 to E 250 and between N 350 to N | The development was carried out as proposed.                             | No deviation noticed.  |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15)                          | Yes, seperate benches in OB and ore are proposed   | Yes, seperate benches in ore and OB were observed during the inspection. | There are six benches in the OB and three benches in ore.The height of bench was 3 meters.Most of the benches were submerged under water on the day of inspection. |
| 2c | Stripping ratio or ore to OB ratio  | 1:1.2  | 1:2  | No remarks to be made.   |
| 2d | Quantity of topsoil generation in m3  | None   | None   | None   |
| 2e | Quantity of overburden generation in m3   | It was proposed to generate 21665 cu.meters of OB during the year 2021-22.                   | The actual OB reportedly generated was 17590 cu.meters                   | No deviation noticed.  |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | None   | None   | The boundary pillars are erected as per the guidelines.  |

### Exploitation:

| Sl.No. | Item  | Propasals    | Actual work  | Remarks  |
|--------|---|--------------|--------------|--|
| 3a     | Number of pit proposed for production                   | One pit      | One pit      | No deviation noticed.  |
| 3b     | Quantity of ROM mineral production proposed             | 56750 tonnes | 47770 tonnes | No deviation noticed.  |
| 3c     | Recovery of sailable/usable mineral from ROM production | 60%          | 60%          | About 26,275 tonnes recovered as Saleable/usable mineral from ROM. |
| 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  | Manual   | Manual   | No deviation noticed.                 |
| 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  | None   | None   | No drilling and blasting was proposed |
| 3k | Provision of mining machineries in mineral benches   | Yes, provision was made for mining machineries in mineral benches for excavating and loading | Same was noticed during the inspection.  | No deviation noticed.                 |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes bench height proposed for 3 meters.  | three meters bench height was noticed during the inspection.                     | No deviation noticed                  |
| 3m | Total area covered under excavation/pits   | ---  | 3.8 ha   | None                                  |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1:1.5  | 1:2  | None                                  |
| 3o | Total area put in use under different heads at the end of year                                       | ---  | Area under pit - 3.8 ha<br>Area under dump - 1.70 ha<br>Infrastructure - 0.02 ha | None                                  |

|    |  |   |   |  |
|----|--|---|---|--|
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 - 38861 tonnes<br>2019-20 - 40510 tonnes<br>2020-21 - 38626 tonnes<br>2021-22 - 40,200 tonnes | 2018-19 - 5520 Tonnes<br>2019-20 - 9455 tonnes<br>2020-21 - 10631 tonnes<br>2021-22 - 26,275 tonnes |  |
| 3q | General remarks of inspecting officers on method of mining etc.          | None  | None  | The development and production being done as per approved mining plan proposals. |

## Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals  | Actual work  | Remarks                |
|--------|--|--|--|------------------------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | A seperate dum pf waste was proposed                           | A seperate dump for waste was noticed duirng the inspection.     | No deviation noticed.  |
| 4b     | Location of topsoil, OB and mineral reject dumps                   | The location of the dump is on the Northern side of the lease. | A dump on the northern side of the lease was noticed.            | No deviation noticed.  |
| 4c     | Number of dumps within lease area and outside of lease area        | One  | One  | One                    |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | The propoes dump was outside the ultimate pit limit            | The waste dump is located outside the ultimate pit limit         | No deviation noticed.  |
| 4e     | Number of active and alive dumps.                                  | One  | One  | No deviation noticed.  |
| 4f     | Number of dead dumps.  | Nil  | Nil  | Nil                    |
| 4g     | Number of dumps established.                                       | One  | One  | No remarks to be made. |
| 4h     | Whether Retaining wall or garland drain all along dumps are there. | A retaining wall and garland drain proposed around the dump    | A garland drain and retaining wall were constructed as proposed. | No remarks to be made. |
| 4i     | Length of Retaining wall or garland drain all along dumps          | 150 meters   | 150 meters   | No remarks to be made. |

|    |  |      |      |                                       |
|----|--|------|------|---------------------------------------|
| 4j | Number of settling ponds   | None | None | None                                  |
| 4k | Specific comments of inspecting officer on waste dump management | None | None | The dump management done as proposed. |

#### 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. | 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. |

#### 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         | No comments to offer.  |
| 6b     | Area available for rehabilitation (ha) .                                     | None      | None        | No remarks to be made. |

|    |  |          |                         |                        |
|----|--|----------|-------------------------|------------------------|
| 6c | afforestation done (ha).   | 0.01     | 0.01                    | No deviation           |
| 6d | No. of saplings planted during the year  | 200 no.s | 200 no.s                | No remarks to be made. |
| 6e | Cumulative no .of plants   | --       | 2600 no.s               | None                   |
| 6f | Any other method of rehabilitation   | None     | None                    | None                   |
| 6g | Cost incurred on watch and care during the year  | --       | Rs.1,50,000/- per year. | 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 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)                                | --   | The environmental monitoring being carried out regularly and all the parameters are within the permissible limits. | None |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | None | None   | None |

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Mineral Conservation:

| Sl.No. | Item  | Propasals   | Actual work  | Remarks                |
|--------|---|---|--|------------------------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area    | 40,200 tonnes                                     | 26,275 tonnes  | No deviation noticed.  |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical. | It was proposed to sort and size the ore manually | Manual sizing and sorting was observed in the mine during the inspection.                  | No remarks to be made. |
| 7c     | Different grade of mineral sorted out at mines.                 | ---   | One grade i.e. less than 25% Mn ore was noticed during the inspection.                     | No remarks to be made. |
| 7d     | Any beneficiation process at mines .                            | None  | Except for sorting and sizing by manual method no other beneficiation process was noticed. | No remarks to be made. |

|    |  |      |      |      |
|----|--|------|------|------|
| 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 is no topsoil in the mining lease.     | Not Applicable  | None    |
| 8b     | Concurrent use or storage of topsoil  | None   | None  | None    |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Yes, seperate dump for OB/waste was proposed | A seperate dump for waste was noticed during the inspection.                                | 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)                    | ---  | Except for plantation made by the lessee no other vegetation was noticed in the lease area. | None    |
| 8g     | Survival rate   | 90%  | 90%   | None    |

|    |  |   |   |   |
|----|--|---|---|---|
| 8h | Water sprinkling on roads to control airborne dust                                 | It was proposed to control the dust by way of water sprinkling, | Dust suppression by using water sprinkling was noticed during the inspection. | None  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | None  | None  | The overall aesthetic beauty is average in and around the mines area. |

#### Compliance of Rule 45:

| Sl.No. | Item  | Propasals  | Actual work   | Remarks |
|--------|---|--|---|---------|
| 9a     | Status of submission of Monthly and Annual returns  | ---  | The Monthly and Annual returns submitted by the lessee regularly. | None    |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | As per the Annual return 2021-22, Sri P Arun Jyothi & Sri M Koteswara Rao are employed as Mining Engineer & Geologist respectively | The was confrimed during the inspection.                          | None    |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | The area under Pits & dumps is as follows:<br>Area under pit: 3.8 ha<br>Area under dump: 1.7 ha                                    | The same was noticed during the inspection.                       |         |
| 9d     | Scrutiny of Annual return on afforestation  | The No. of saplings planted during the year are reported as 200 no.s   | The same was confirmed during the inspection.                     |         |
| 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                    | The total ROM reported in the Annual return 2021-22 was 47770 tonnes.  | Same was confirmed during the inspection.     | No remarks.            |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | The ex-mine price reported in the annual return 2021-22 was Rs.4515/-<br>The cost of production reported was Rs.3211/-   | The same was confirmed during the inspection. | No remarks to be made. |
| 9h | Scrutiny of Annual return on fixed assets                                   | The value reported for fixed assets was Rs. 7.30 crores.   | The scrutiny of the same was not done.        | No remarks to offer.   |
| 9k | Scrutiny of Annual return on mining machineries                             | It was reported in the Annual return 2021-22, the following machinery:<br>1. Tippers: 3 no.s<br>2. Front end loaders : 1 no.s<br>3. Shovel (Hydraulic) : 1 no.<br>4. electric motor : 1 no.<br>5. Water tanker : 1 no. | The same was confirmed during the inspection. | No remarks to make.    |

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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