

**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-140/HYD

**Mine code :** 40APR20093

- (i) Name of the Inspecting : **M001** ) **S K MUDULI**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : A.Satyanand Prasad, Agent (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 05/04/2018
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PEDDANADIPALLY(8.190 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : **ANDHRA PRADESH**  
District : **VIZIANAGARAM**  
Village : **PEDDANADIPALLY**  
Taluka : **CHIPURUPALLI**  
Post office : **CHIPURUPALLI**  
Pin Code : **535128**  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 19/04/2013
- (h) Weekly day of rest : SUN
2. Address for : M/S GLOBLE ASSOCIATES, KARROW BUILDING,  
correspondance POST: BARBIL,  
DIST:KEONJHAR, ODISHA STATE.
3. (a) Lease Number : APR3350
- (b) Lease area : 8.19
- (c) Period of lease : 20
- (d) Date of Expiry : 03/04/2033
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/SGLOBLE ASSOCIATES  
KARROW BUILDING,  
POST:BARBIL  
DIST:KEONJHAR,ODISHA.758035  
KEONJHAR ORISSA  
Phone:  
FAX :

Owner : M/SGLOBLE ASSOCIATES  
KARROW BUILDING, PO:BARBIL  
DIST:KEONJHAR.758035.  
KEONJHAR ORISSA  
Phone:  
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 06/02/2015

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

## Exploration :

| Sl.No. | Item  | Proposals   | Actual work   | Remarks                           |
|--------|---|---|---|-----------------------------------|
| 1a     | Backlog of previous year  | 5 CBH during the year 2014-15, No proposal in 2016-17 | 5 nos core bore hole drilled out of which two nos bore holes locations are very near to the earlier drilled bore holes CBH-1 and CBH-2. |                                   |
| 1b     | Exploration over lease area for geological axis 1 or 2              | 5 NOS OF CORE BORE HOLES PROPOSED (2014-15)           | 1.50 Ha. Additional 5nos core bore hole drilled in 2015-16.   |                                   |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year |   | GLOBAL ASSOCIATES , Around Rs. 300000/-   |                                   |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      |   | 6.69 Ha.  | 1.50 Ha explored in G1 & G2 level |
| 1e     | Balance reserve as on 01/04/20                                      |   | 111 and 122 category- 20977 tonnes  |                                   |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |   |   | 6.69 ha area has to be explored.  |

## Development :

| Sl.No. | Item   | Proposals                        | Actual work                            | Remarks |
|--------|--|----------------------------------|--|---------|
| 2a     | Location of development w.r.t. lease area                      | South Eastern Side of West Block | South Eastern Side of West Block       |         |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | NO PROPOSALS                     | 3 benches in OB and two benches in ore |         |
| 2c     | Stripping ratio or ore to OB ratio                             | 1:8.31                           | 1 : 4.4                                |         |
| 2d     | Quantity of topsoil generation in m3                           | 1935 m3                          | NIL                                    |         |
| 2e     | Quantity of overburden generation in m3                        | 11610                            | 2053                                   |         |

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

---

Exploitation:

| Sl.No. | Item  | Propasals                 | Actual work  | Remarks   |
|--------|---|---------------------------|--|---|
| 3a     | Number of pit proposed for production                             | ONE                       | ONE  |   |
| 3b     | Quantity of ROM mineral production proposed                       | 9561                      | 5860   |   |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 60%                       | 39.82% of total quantity of ROM produced i.e 2334 tonnes of 25 to 35% of Mn seggregated ore. | No size wise and quality wise information available regarding the balance 60.18% of total ROM produced. Stock registers were not available for inspection during the mine inspection. |
| 3d     | Quantity of mineral reject generation                             | NIL                       | NIL  |   |
| 3e     | Grade of mineral rejects generation and threshold value declared. | <10% OF MN                | Not produced   |   |
| 3f     | Quantity of sub grade mineral generation.                         | NIL                       | Sub grade Ore production not reported.   |   |
| 3g     | Grade of sub grade mineral generation                             | >10% OF Mn and <15% OF Mn | Sub grade mineral generation not reported  |   |
| 3h     | Manual / Mechanised method adopted for segregating from ROM       | Manual Sorting            | Manual Sorting   |   |

---

|    |  |  |   |  |
|----|--|--|---|--|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | Not Proposal   | Not Carried out   |  |
| 3j | Provision of drilling and blasting in mineral benches  | Jack Hammer<br>drilling. Burden-2m, Spacing-2.5m, Depth-3m   | Practiced as proposed   |  |
| 3k | Provision of mining machineries in mineral benches   | Excavators, Tip pers   | L & T PC 200-Excavator (0.9 m3)-1no, Tipper(5 m3)-2 nos   |  |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes, 6m Bench in two slices of 3m each   | Top Bench height-4m, All other benches are within 3m  |  |
| 3m | Total area covered under excavation/pits   | 0.43 Ha  | 0.545 Ha  |  |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1:8.31   | 1:4.4   |  |
| 3o | Total area put in use under different heads at the end of year                                       | 1.44 Ha  | 1.00 Ha   |  |
| 3p | Production of ROM mineral during the last five year period as applicable                             | 2013-14: 639 Tonnes, 2014-15 : 2448 Tonnes, 2015-16 : 10194 Tonnes, 2016-17 : 11292 Tonnes, 2017-18: 9561 Tonnes | 2013-14 : 250 Tonnes, 2014-15 : NIL, 2015-16 : 1630 Tonnes, 2016-17: 1194 Tonnes, 2017-18: 5860 tonnes(as per monthly returns received) |  |
| 3q | General remarks of inspecting officers on method of mining etc.                                      | ....   | .....   | Mining operations are being carried out as per the approved proposals under A OTFM category. |

Solid Waste Management - Dumping:

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

|    |  |                           |  |  |
|----|--|---------------------------|--|--|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | Western part of the lease | OB and mineral reject dump not found within the lease. | The lessee has reported 10573 tonnes of over burden/waste and 400 tonnes of mineral reject during 2015-16 to 2016-17 as submitted in the annual return, but during inspection no OB dump , mineral reject dump found within the lease.Matter referred to state govt for taking action. |
| 4b | Location of topsoil, OB and mineral reject dumps                   | WESTERN SIDE OF THE LEASE | .....  |  |
| 4c | Number of dumps within lease area and outside of lease area        | One                       | Nil  |  |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | WESTERN SIDE OF THE LEASE | .....  |  |
| 4e | Number of active and alive dumps.                                  | ONE                       | .....  |  |
| 4f | Number of dead dumps.  | NIL                       | NIL  |  |
| 4g | Number of dumps established.                                       | NIL                       | NIL  |  |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | YES                       | No dump exists   |  |
| 4i | Length of Retaining wall or garland drain all along dumps          | Nil                       | Nil  |  |
| 4j | Number of settling ponds   | One                       | One  |  |
| 4k | Specific comments of inspecting officer on waste dump management   |                           |  | No waste dump found within the Lease.  |

| Sl.No. | Item  | Propasals | Actual work | Remarks  |
|--------|---|-----------|-------------|--|
| 5a     | Status of part or full extraction of mineral from mined out area before starting backfilling. | 0.05 Ha   | Nil         | Not area is matured for back filling.                                  |
| 5b     | Area under backfilling of mined out area  | NA        | NA          |  |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | NA        | NA          |  |
| 5d     | Total area fully reclaimed and rehabilitated  | Nil       | NA          |  |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    | NA        | NA          | No part of the lease area is matured for back filling and 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          |  |
| 6b     | Area available for rehabilitation (ha) .                                     | Nil                              | NA          | No part of the lease are is matured for back filling and reclamation and rehabilitation. |
| 6c     | afforestation done (ha).   | 50 nos, 0.05 Ha, 3m X 3m spacing | Nil         |  |
| 6d     | No. of saplings planted during the year                                      | 50 nos                           | Nil         |  |
| 6e     | Cumulative no .of plants   | 200 nos                          | Nil         |  |
| 6f     | Any other method of rehabilitation   | Nil                              | NA          | No part of the lease area is matured.  |

|    |  |  |     |  |
|----|--|--|-----|--|
| 6g | Cost incurred on watch and care during the year  | ...  | Nil |  |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | Back filling- 0.05 Ha, Afforestation-0.05 Ha | Nil | No part of the lease is matured for back filling |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | 0.05 Ha                                      | Nil |  |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area         | 0.05 Ha                                      | Nil |  |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | No proposal                                  | NA  |  |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.                  | No proposal                                  | NA  |  |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation                                  | No proposal                                  | NA  |  |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)                      | No Proposal                                  | NA  |  |



|    |   |   |                  |
|----|---|---|------------------|
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation |   |                  |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                    | Periodical monitoring of Air, water and noise is to be carried out. | Not carried out. |

### Mineral Conservation:

| Sl.No. | Item   | Propasals                             | Actual work                           | Remarks   |
|--------|--|---------------------------------------|---------------------------------------|---|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | Manual sorting within the lease area. | Manual sorting within the lease area. |   |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | Manual                                | Manual                                |   |
| 7c     | Different grade of mineral sorted out at mines.  | ...                                   | <25% Mn ore and 25-35% Mn ore         |   |
| 7d     | Any beneficiation process at mines   | Hand Sorting and Manual screening     | Hand Sorting and Manual screening     |   |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues |                                       |                                       | Manual hand sorting and manual screening is being practiced to improve the grade. |

### Environment:

| Sl.No. | Item  | Propasals             | Actual work | Remarks |
|--------|---|-----------------------|-------------|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | 1935 m3               | Nil         |         |
| 8b     | Concurrent use or storage of topsoil                  | No specific proposal. | .....       |         |

|    |   |  |       |   |
|----|---|--|-------|---|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Western side of the lease area.        | ..... |   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Stacking sepeartely within lease area. | ..... |   |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal                            | NA    |   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | 50 plants                              | Nil   |   |
| 8g | Survival rate   | 60%                                    | ....  |   |
| 8h | Water sprinkling on roads to control airborne dust  | Yes                                    | Yes   |   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |  |       | The ML area is surrounded by agricultural lands, firms and looks greenaeey. |

---

Compliance of Rule 45:

| Sl.No. | Item   | Propasals  | Actual work   | Remarks |
|--------|--|--|---|---------|
| 9a     | Status of submission of Monthly and Annual returns | Submission of MR up to March 2018 and Annual Return for 2016-17. | MR submitted up to March 2018 and Annual Return submitted upto 2016-17. |         |

|    |   |  |  |
|----|---|--|--|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | A.SATYANAND PRASAD-Agent,K KRISHNA RAO-Manager   | Whole time Mining engineer and Geologist not appointed,Manager-resigned  |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Already exploited & abandoned by opencast (O/C) mining is 8.19 Ha  | Not submitted correctly  |
| 9d | Scrutiny of Annual return on afforestation  | Nil  | Nil  |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | 200 tonnes   | Stock not found in the mine  |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | 7.70 tonnes (ROM),6 tonnes(Below 25% Mn),25% to below 35% Mn(224 tonnes)   | ....   |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Sale value (Per Tonne) < 25% Mn- Rs 3000.00,25% to below 35% Mn- Rs 5045.00 Ex-mine price (Per Tonne) < 25% Mn- Rs 3000.00,25% to below 35% Mn- Rs 4211.00 Production cost-Rs 1798.00. | Deduction claimed for computation of ex mine price is zero but for 25% to below 35% Mn ore the sale price is not matching with the Ex mine price.Exploration has not been carried out in 2016-17 but taken in to account for calculating cost of production. |
| 9h | Scrutiny of Annual return on fixed assets   | Zero   | Cost of land not included in the fixed assets.   |
| 9k | Scrutiny of Annual return on mining machineries   | SHOVEL(MECHANICAL)(0.9 m3)-1 no,Tipper-2 nois  | .....  |

---

**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 |
| MCDR17 Rule 11(1)    | 23/05/2018 |               |                     |           |               |
| MCDR17 Rule 31(4)    | 23/05/2018 |               |                     |           |               |
| Rule 45(7)           | 23/05/2018 |               |                     |           |               |
| MCDR17 Rule 47(a)    | 23/05/2018 |               |                     |           |               |
| MCDR17 Rule 48       | 23/05/2018 |               |                     |           |               |
| MCDR17 Rule 54(d)    | 23/05/2018 |               |                     |           |               |
| MCDR17 Rule 55(1)(3) | 23/05/2018 |               |                     |           |               |

**Date :**

**(S K MUDULI)**

Indian Bureau of Mines