

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-121/HYD

Mine code : 40APR20063

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.G.Ravi Sekhar, Agent
Official with
Designation
- (iv) Date of Inspection : 22/10/2016
- (v) Prev.inspection date : 11/02/2008

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAI KRISHNA**
- (b) **Registration NO.** : **IBM/4237/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ANDHRA PRADESH**
District : **VIZIANAGARAM**
Village : **G.AGRAHARAM**
Taluka : **TARLAM MANDLAM**
Post office : **CHEEPURUPALLI**
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station : **THARLAM**
- (g) First opening date : 18/05/1981
- (h) Weekly day of rest : **SUN**
2. Address for : **SGX Minerals Pvt.Ltd. D.No: 39-3-19/1, Phase-III**
correspondance **Murali Nagar, Masjid Junction,**
VISAKHAPATNAM-530007
3. (a) Lease Number : **APR0255**
- (b) Lease area : **15.61**
- (c) Period of lease : **20**
- (d) Date of Expiry : **23/07/2021**
4. Mineral worked : **MANGANESE ORE** Main

5. Name and Address of the

Lessee : M/S A.S.V.Prasad Mining Pvt.Ltd.
 Flat No.304, Eshwar Homes,
 1st Lane, Dwaraka Nagar,
 VISAKHAPATNAM VISAKHAPATNAM
 ANDHRA PRADESH
 Phone:
 FAX :

Owner : A.S.V.PRASAD
 MINE OWNER, JAGANNADHARAJU
 COLONY CHEEPURUPALLI (PO &
 M) VIZIANAGARAM DT.
 VIZIANAGARAM ANDHRA PRADESH
 Phone:
 FAX :

Manager

Name : K.SIVA PRASADA RAO
 Qualification : DIPLOMA IN MINING ENGINEERING
 Appointment/ : 01/10/2016
 Termination date

| | | | |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 14/06/2013 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 17/04/2015 |
| | | Mining Scheme rule 12 MCDR1988 | 29/07/2016 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|----------------------------------|----------------------------------|--|
| 1a | Backlog of previous year | None | None | |
| 1b | Exploration over lease area for geological axis 1 or 2 | 41 Bore Holes | 58---(38 DTH and 20 CBH) | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | _____ | Rs. 16,08,000/- | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL | NIL | |
| 1e | Balance reserve as on 01/04/20 | Proved Reserves- 86809.35 tonnes | Proved Reserves- 86809.35 tonnes | |
| 1f | General remarks of inspecting officers on geology, exploration etc | _____ | _____ | Total area has been explored and the total reserves and resources have been estimated. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|-----------------|-----------------|---|
| 2a | Location of development w.r.t.lease area | North West side | North West side | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes | Yes | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.16 | 1:0.16 | |
| 2d | Quantity of topsoil generation in m3 | 2000 m3 | 2000 m3 | Top soil is used for afforestation purpose. |
| 2e | Quantity of overburden generation in m3 | NIL | NIL | |

| | | | | |
|----|---|--|--|---|
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Pit is developed as per the approved proposals. |
|----|---|--|--|---|

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 3a | Number of pit proposed for production | One Pit | One Pit | |
| 3b | Quantity of ROM mineral production proposed | 33141 tonnes | 6792.703 cu.m | |
| 3c | Recovery of sailable/usable mineral from ROM production | 33140 tonnes | 5011 tonnes | |
| 3d | Quantity of mineral reject generation | NIL | NIL | |
| 3e | Grade of mineral rejects generation and threshold value declared. | NIL | NIL | |
| 3f | Quantity of sub grade mineral generation. | | 1832 M3 | |
| 3g | Grade of sub grade mineral generation | 10-15% Mn | 10-15% Mn | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Manual screening | Manual screening | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Sub grade mineral blended and sale as below 25% Mn | Sub grade mineral blended and sale as below 25% Mn | |
| 3j | Provision of drilling and blasting in mineral benches | NIL | NIL | |

| | | | | |
|----|--|---|---|--|
| 3k | Provision of mining machineries in mineral benches | NIL | NIL | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes, 3m ht and 3m width | Yes, 3m ht and 3m width | |
| 3m | Total area covered under excavation/pits | 3.8772 ha | 3.1222 ha | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.16 | 1:0.16 | |
| 3o | Total area put in use under different heads at the end of year | 6.7028 ha | 8.8315 ha | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2011-12---NIL, 2012-13----NIL, 2013-14--NIL, 2014-15----NIL, 2015-16---33140.88 T | 2011-12---NIL, 2012-13---NIL, 2013-14---6006 T, 2014-15----NIL, 2015-16---6792.703 cu.m or 18340.29 t | |
| 3q | General remarks of inspecting officers on method of mining etc. | _____ | _____ | Mining operations are being carried out under A OTFM Category as per the approved proposals. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Yes | Separate dumps are being maintained for topsoil, OB and mineral rejects. | |
| 4b | Location of topsoil, OB and mineral reject dumps | OB dump- North West Side, Sub grade- South side | OB dump- North West Side, Sub grade- South side | |
| 4c | Number of dumps within lease area and outside of lease area | Two dumps within lease area | Two dumps within lease area | |

| | | | | |
|----|--|-----------------|-----------------|---|
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | North west | North west | |
| 4e | Number of active and alive dumps. | One active dump | One active dump | |
| 4f | Number of dead dumps. | One | One | |
| 4g | Number of dumps established. | One | One | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Retaining wall | Retaining wall | |
| 4i | Length of Retaining wall or garland drain all along dumps | 400x0.5x1m | 400x0.5x1m | |
| 4j | Number of settling ponds | One | One | |
| 4k | Specific comments of inspecting officer on waste dump management | _____ | _____ | Waste dump is being maintained as per the approved proposals. |

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. | NIL | NIL | |
| 5b | Area under backfilling of mined out area | NIL | NIL | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | NIL | NIL | |
| 5d | Total area fully reclaimed and rehabilitated | NIL | NIL | |

| | | | | |
|----|--|--|--|---|
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | No backfilling is proposed during the year 2015-16. |
|----|--|--|--|---|

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 | Violation of Rule 23E(2) has been pointed out to the party. |
| 6b | Area available for rehabilitation (ha) . | Nil | Nil | |
| 6c | afforestation done (ha). | 0.4 ha | 0.4 ha | |
| 6d | No. of saplings planted during the year | 1000 saplings | 500 saplings | |
| 6e | Cumulative no .of plants | | 2400 nos | |
| 6f | Any other method of rehabilitation | NIL | NIL | |
| 6g | Cost incurred on watch and care during the year | NIL | Rs. 1,49,100/- | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | NIL | NIL | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NIL | NIL | |

| | | | | |
|----|---|-------|-------|--|
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | NIL | NIL | |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NIL | NIL | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | NIL | NIL | |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | NIL | NIL | |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | NIL | NIL | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | N.A | N.A | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Yes | Done | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | _____ | _____ | Progressive mining operations are being carried out as per the approved proposals. |

Mineral Conservation:

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

| | | | | |
|----|--|--------------------------------------|--------------------------------------|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grade wise sorting within lease area | Grade wise sorting within 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. | 15% Mn and above | 15% Mn and above | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | _____ | _____ | ROM mineral is being graded manually and selling as per the specification of the consumer. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|--------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NIL | NIL | |
| 8b | Concurrent use or storage of topsoil | N.A | N.A | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Yes, OB dump | Yes, OB dump | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | N.A | N.A | |

| | | | | |
|----|---|-------|-------|--|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NIL | NIL | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 1000 | 500 | |
| 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 Mango gardens giving scenic beauty. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 9a | Status of submission of Monthly and Annual returns | Monthly and Annual returns submitted up to date | Monthly and Annual returns submitted up to date | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Sri.B.S.Ganga Rao, Mining Engineer Cum Manager and Geologist | Sri.K.Sivaprasada Rao- Mining Engineer cum Manager, D.Sudhakar- Geologist | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area covered under pits-0, Reclaimed area-0, Area under dumps-0 | Furnished incorrect information. Lessee was advised to submit the revised Return. Area covered under pits-3.12, Reclaimed area-0, Area under dumps-2.5 ha | |
| 9d | Scrutiny of Annual return on afforestation | 500 Nos | 500 Nos | |

| | | | |
|----|---|--|--|
| 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 | 6282 tonnes | 6282 tonnes |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Sale Value-Rs. 2247/- Ex.Mine Price- Rs.2247/- Cost of production- Rs.1749/- | Sale Value-Rs. 2247/- Ex.Mine Price- Rs.2247/- Cost of production- Rs.1749/- |
| 9h | Scrutiny of Annual return on fixed assets | NIL | NIL |
| 9k | Scrutiny of Annual return on mining machineries | Shovel-1, Dumper-3, Air Compressor-1, Generator-1 | Shovel-1, Dumper-3, Air Compressor-1, Generator-1 |

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 |
| Rule 23E(2) | 08/12/2016 | | | | |
| Rule 45(7) | 08/12/2016 | | | | |

Date :**(Ch.Suseela)**

Indian Bureau of Mines