

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

**MCDR INSPECTION REPORT**

**Hyderabad regional office**

**Mine file No :** AP/VZNR/Mn- 130/Hyd

**Mine code :** 40APR20075

- (i) Name of the Inspecting : **C\$10** ) **Ch.Suseela**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.Shankar Lal Sharma, Lessee and Sri.S.K.Mishra, Mi  
Official with  
Designation
- (iv) Date of Inspection : 19/10/2016
- (v) Prev.inspection date : 05/08/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SHIV SHANTHI**
- (b) **Registration NO.** : **IBM/297/2011**
- (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 :  
Phone :
- (f) Police Station :
- (g) First opening date : 24/03/2008
- (h) Weekly day of rest :
2. Address for : **D.SANKARLAL SHARMA**  
correspondance : **DFN COLONY**  
**SHREERAMNAGAR(PO) VIZIANAGARAM**
3. (a) Lease Number : **APR2381**
- (b) Lease area : **4.97**
- (c) Period of lease : **20**
- (d) Date of Expiry : **12/03/2028**
4. Mineral worked : **MANGANESE ORE** Main

## 5. Name and Address of the

Lessee : D. SANKARLAL SHARMA  
DFN COLONY SHREERAMNAGAR  
(PO) VIZIANAGARAM ANDHRA  
PRADESH  
Phone:  
FAX :

Owner : D.SHANKAR LAL SHARMA  
VIZIANAGARAM ANDHRA  
PRADESH  
Phone:  
FAX :

## Manager

Name : S.K.MISHRA  
Qualification : B.TECH,MINING A.I.S.M.  
Appointment/ :  
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 11/10/2013  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	Total area has been explored.
1b	Exploration over lease area for geological axis 1 or 2	NIL	4.973 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Map Drilling Rs.10,00,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	39192 tonnes	39192 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Total area has been explored.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RL 83.1- 72.6, Sec Y-Y'	RL 83.1- 72.6, Sec Y-Y'	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes 3m ht and 3m wd in ore and OB	Yes 3m ht and 3m wd in ore and OB	
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.23	
2d	Quantity of topsoil generation in m3	38 Cu.m	NIL	
2e	Quantity of overburden generation in m3	114 cu.m	1126 cu.m	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	Development work is going on as per the approved proposals.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	10024.56 t	8,100 t	
3c	Recovery of sailable/usable mineral from ROM production	70%	68%	
3d	Quantity of mineral reject generation	NIL	2947 t	
3e	Grade of mineral rejects generation and threshold value declared.	_____	<10% Mn	
3f	Quantity of sub grade mineral generation.	210.6 Cu.m	Nil	
3g	Grade of sub grade mineral generation	10%Mn- 15%Mn	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed	The Mineral above 10% Mn is being beneficiated at the lessee's beneficiation plant and being sold out.	
3j	Provision of drilling and blasting in mineral benches	NIL	NIL	

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3k	Provision of mining machineries in mineral benches	Shovel with 0.9 cu.m-1 No. Dumper -2 Nos	Shovel with 0.9 cu.m-1 No. Dumper -1 No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes ,3m ht & 3m Wd	Yes , 3m ht & 3m Wd	
3m	Total area covered under excavation/pits	1.518 ha	1.560 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.15	1:0.23	
3o	Total area put in use under different heads at the end of year	4.973 ha	3.085 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12 : NIL, 2012-13 : NIL, 2013-14 : 9639.95 t, 2014-15 : 9805.6 t, 2015-16 : 10024.56 t	2011-12 : 5823t , 2012-13 : 2720 t , 2013-14 : 14395 t, 2014-15 : 5700 t, 2015-16 : 8100 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Mining operations are being carried out under open cast method of mining , AOTFM category.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, waste dump	Yes, waste dump	
4b	Location of topsoil, OB and mineral reject dumps	South west of Main pit	South west of Main pit	
4c	Number of dumps within lease area and outside of lease area	One, within ML	One, within ML	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South west of Main Pit	South west of Main Pit	
4e	Number of active and alive dumps.	One	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	Provided	
4i	Length of Retaining wall or garland drain all along dumps	Yes	Retaining wall constructed.	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Retaining wall has been constructed to arrest wash off due to rains.

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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.			Pit not matured for back filling.
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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	No	Violation of Rule 23 E(2) has been pointed out to the lessee.
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	Not Applicable	Not Applicable	
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	150 plants	150 plants	
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	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out	
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.

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 Mineral Conservation:
 

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area <25% Mn & < 35% Mn	Grade wise sorting within lease area <25% Mn & < 35% Mn	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Below 25% Mn Below 35% Mn	Below 25% Mn Below 35% Mn	
7d	Any beneficiation process at mines	Hand screening and sorting	Hand screening and sorting	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Below 10% Mn is also being upgraded thereby conserving the mineral .

## Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No Top soil is being generated.
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste dump in south west of lease area	Waste dump in south west of lease area	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	No	

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)	956 plants	956 plants	
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	Proposed	being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	ML area is surrounded by agricultural land with Mango, Banana and Causirina plantation.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted Monthly Returns up to September 2016 and Annual Return for the year 2015-16.	Submitted Monthly Returns up to September 2016 and Annual Return for the year 2015-16.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- S.K.Mishra, Geologist- T.Durga Prasad, Mines Manager- S.K.Mishra	Mining Engineer- S.K.Mishra, Geologist- T.Durga Prasad, Mines Manager- S.K.Mishra	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under Pits- 1.560 ha, Reclaimed area- 0 ha, Dump- 0.500 ha	Area covered under Pits- 1.560 ha, Reclaimed area- 0 ha, Dump- 0.500 ha	

9d	Scrutiny of Annual return on afforestation	150 plants	150 plants
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	<10% Mn 2947.00 tonnes	<10% Mn 2947.00 tonnes
9f	Scrutiny of Annual return on ROM stock and/or graded ore	8100 tonnes	8100 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value- Rs.1575/- Ex. Mine Price- <25% Mn-Rs.1500/-, <35% Mn- Rs.2000/- Cost of production- Rs.1455/-	Sale Value- Rs.1575/- Ex. Mine Price- <25% Mn-Rs.1500/-, <35% Mn- Rs.2000/- Cost of production- Rs.1455/-
9h	Scrutiny of Annual return on fixed assets	Rs.7,05,286/-	Rs.7,05,286/-
9k	Scrutiny of Annual return on mining machineries	Shovel-0.90 cu.m- 1 No. Dumper-8.00 t- 1 No.	Shovel-0.90 cu.m- 1 No. Dumper-8.00 t-1 No.

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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
Rule 23E(2)	08/12/2016				
Rule 27(4)	08/12/2016				
Rule 23E(2)	08/12/2016				
Rule 27(4)	08/12/2016				

**Date :**

**(Ch.Suseela)**

Indian Bureau of Mines