

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

FMCP 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 : Junior Mining Geologist
- (iii) Accompanying mine : Shri. D.Shankarlal Sharma, Lessee and Shri. P.R.Mishr
Official with
Designation
- (iv) Date of Inspection : 23/09/2022
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHIV SHANTHI**
- (b) **Registration NO.** : **IBM/297/2011**
- (c) Category : A Other Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : _____
- E-mail : shivshanthi2008@gmail.com
- Phone : 9440517919
- (f) Police Station : BUDARAYAVALLASA
- (g) First opening date : 24/03/2008
- (h) Weekly day of rest : SUN
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
 DFN COLONY, SHREERAM NAGAR
 GARIVIDI VIZIANAGARAM
 DISTRICT VIZIANAGARAM
 ANDHRA PRADESH
 Phone: 9440517919
 FAX :

Manager

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

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	31/07/2007
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	11/10/2013
	:	MP review under 17(1) MCR 2016	20/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal during the year 2021-22	NIL	
1b	Exploration over lease area for geological axis 1 or 2	25 Core Bore Holes were proposed to be drilled during the year 2018-19 and 2019-20	NIL	The proposed exploration was not carried out as the mine was not in operation during last plan period for want of EC. violation letter issued on 12.10.2022
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	_____	3.773 ha	About 1.2 ha of the mineralised area has been explored under G1 scale.
1e	Balance reserve as on 01/04/20	Proved-- 58186.2 tonnes(111) Sub grade-- 3422.6 tonnes (111) Resources-- 217104 tonnes(221) Sub grade-- 12770.8 tonnes(221)	Proved--58186.2 tonnes(111) Sub grade--3422.6 tonnes (111) Resources--217104 tonnes(221) Sub grade--12770.8 tonnes(221)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	The ML area belongs to Dharwar Super group of pre cambrian age, which forms a part of the Eastern Ghats. About 1.2 ha of the mineralised area has been explored under G1 scale. The mine was not in operation during the last plan period for want of EC.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development is proposed in A',B-B' and C' sections between 94- 88 RLs	No development has been done as the mine was not in operation for want of EC	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only overburden and mineral benches have been proposed	NIL	
2c	Stripping ratio or ore to OB ratio	1 : 0.30	NIL	
2d	Quantity of topsoil generation in m3	No Proposal	NIL	
2e	Quantity of overburden generation in m3	1856 m3	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	It was proposed to extend seven benches towards North -west by maintaining bench ht of 3 m and width of 3 m.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	NIL	No excavation was carried out during the last plan period.
3b	Quantity of ROM mineral production proposed	4574.7 m3	NIL	
3c	Recovery of sailable/usable mineral from ROM production	68%	NIL	
3d	Quantity of mineral reject generation	No proposal	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	NIL	
3f	Quantity of sub grade mineral generation.	No proposal	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	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.	No proposal	NIL	
3j	Provision of drilling and blasting in mineral benches	Yes, drilling and blasting is proposed	NIL, as the mine was not in operation due to lack of EC	
3k	Provision of mining machineries in mineral benches	Yes, Excavator and Tippers are proposed	NIL, as the mine was not in operation due to lack of EC	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3 m bench ht and 3 m bench width is proposed	Suitable bench heights in OB and Mineral Zone are being maintained	
3m	Total area covered under excavation/pits	2.008 ha	1.518 ha	The mine was not working during the last plan period for want of EC.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.30	NIL	
3o	Total area put in use under different heads at the end of year	3.33 ha	2.132 ha	

3p	Production of ROM mineral during the last five year period as applicable	2017-18-- 10729.04 t, 2018-19-- 12080.88 t, 2019-20-- 12233.20 t, 2020-21-- 12529.02 t, 2021-22-- 12809.16 t	2017-18--NIL, 2018-19-- NIL, 2019-20--NIL, 2020- 21--NIL, 2021-22--NIL	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	The mine was not working during the last plan period for want of EC.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, on the existing dump	No waste is generated as the mine was not in operation for want of EC.	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump in South Western side of ML	Waste dump in South Western side of ML	
4c	Number of dumps within lease area and outside of lease area	One within the lease area	One within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One active dump	One active dump	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	None	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall , garland drain and siltation tank is proposed around the waste dump	Retaining wall, garland drain and siltation tank is made around the waste dump	

4i	Length of Retaining wall or garland drain all along dumps	Retaining wall--165 x 0.5 x 1 m Garland drain--345 x 0.5 x 1 m Siltation Tank--5 x 3 x 1 m	Retaining wall, garland drain and siltation tank is made around the waste dump as proposed	
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	The lessee has constructed Retaining wall, garland drain and siltation Tank as the protective measure for the waste 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	The pit is not matured for reclamation, hence backfilling does not arise.
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 proposal	NIL	The pit is not matured for reclamation, hence back filling does not arise.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Report on PMCP is to be submitted on time.	Annual Report on PMCP was not submitted	Violation letter issued to the lessee on 12.10.2022
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	About 0.093 ha area was proposed for afforestation	NIL	The mine was not in operation during the last plan period for want of EC.
6d	No. of saplings planted during the year	250 saplings	NIL	The mine was not in operation during the last plan period for want of EC.
6e	Cumulative no .of plants	1250 plants were proposed to be planted during the ensuing plan period	NIL	The mine was not in operation during the last plan period for want of EC.
6f	Any other method of rehabilitation	No proposal	NIL	
6g	Cost incurred on watch and care during the year	No proposal	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	NIL	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	250 saplings are proposed to be planted	NIL	The mine was not in operation during the ensuing plan period for want of EC.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of environmental parameters are proposed to be carried out	Quarterly monitoring of environmental parameters are not carried out as the mine was not in operation during the ensuing plan period for want of EC.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	The mine was not in operation during the ensuing plan period for want of EC.

Mineral Conservation:

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 the lease area	NIL	The mine was not in operation during the last plan period for want of EC.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting	NIL	
7c	Different grade of mineral sorted out at mines.	10-20% Mn >20% Mn	NIL	
7d	Any beneficiation process at mines	No proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Manual Segregation of ore is proposed	NIL	The mine was not in operation during the last plan period for want of EC.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	
8b	Concurrent use or storage of topsoil	No proposal	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB is proposed	OB dump is maintained separately	
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)	No proposal	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 saplings are proposed to be planted during the year 2021-22	Complementary afforestation was done in and around the lease area	The mine was not in operation during the last plan period for want of EC.
8g	Survival rate	Not specific	NIL	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on roads is proposed	NIL	The mine was not in operation during the last plan period for want of EC.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	Complementary afforestation was done around the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns are to be submitted in time	Monthly and Annual Returns are submitted with delay of 6 days. Accordingly, Violation letter was issued on 1.8.2022	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	MINING ENGINEER--Shri S.K.Mishra, Geologist-- Shri. T.Durga Prasad	Found to be correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits-- 1.560 ha Area under dumps-- 0.600 ha Reclaimed area--NIL	Area under pits-- 1.518 ha Area under dumps-- 0.047 ha Reclaimed area--NIL	There is a variation in the area covered under pit and dump. Accordingly Violation issued to the lessee on 12.10.2022

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	ROM Stock-- 4322 Tonnes Graded ore--- 462.89 t(Below 25% Mn)	ROM Stock--4322 Tonnes Graded ore--- 462.89 t(Below 25% Mn) 0.12 t (25-35% Mn)
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value-- Rs.4590/- Ex.Mine Price-- - Rs. 4590/-, Cost of production-- Rs. 1331/-	Found to be correct.
9h	Scrutiny of Annual return on fixed assets	Rs.331287/-	Rs.331287/-
9k	Scrutiny of Annual return on mining machineries	One Electrical Pump of 200 L capacity	One Electrical Pump of 200 L capacity

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)	12/10/2022			
MCDR17	Rule 26(2)	12/10/2022			
MCDR17	Rule 45(7)(a)	12/10/2022			

Date :

(Ch.Suseela)

Indian Bureau of Mines