

**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- 130/Hyd

Mine code : 40APR20075

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SHANKAR LAL SHARMA LESSEE
Official with
Designation
- (iv) Date of Inspection : 17/10/2017
- (v) Prev.inspection date :

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	There are no proposals of exploration for the year 2016-17	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G2	G2 level of exploration has been carried out	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During 2016-17, no such proposal is made.	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 scale of exploration has already done	-	However the lessee has proposed futher exploration in the present document to convert the G2 scale of exploration to G1 Scale of exploration.
1e	Balance reserve as on 01/04/20	58,186 T	58,186 T	source AMP approved on 20.11.2017
1f	General remarks of inspecting officers on geology, exploration etc	Precambrian meta sedimentary deposit with G2 scale of exploration.	A metasedimentary deposit with G2 scale of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development is proposed on Y- Y' section betweeb 83 and 71 RLs	The development as envisaged is carried out.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only overburden and mineral benches have been proposed.	As proposed the OB and mineral benches have been formed.	
2c	Stripping ratio or ore to OB ratio	1:0.16	1:0.18	

2d	Quantity of topsoil generation in m3	Nil	-
2e	Quantity of overburden generation in m3	1670 cum	About 2000 cum
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	It was proposed to form four benches.	As proposed 4 benches have been formed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One.	
3b	Quantity of ROM mineral production proposed	10,367 T	12,100 T	
3c	Recovery of sailable/usable mineral from ROM production	68%	68%	
3d	Quantity of mineral reject generation	No such proposal is made.	There is no generation of Mineral rejects.	
3e	Grade of mineral rejects generation and threshold value declared.	No such proposal is made.	-	
3f	Quantity of sub grade mineral generation.	There is no such proposal of generation of sub grade mineral.	-	
3g	Grade of sub grade mineral generation	No such proposal is made.	-	
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.	None	-	
3j	Provision of drilling and blasting in mineral benches	Yes	In the mineralised zone manual operations are being carried out No drilling and blasting is done.	
3k	Provision of mining machineries in mineral benches	Yes	No provision for mining machinery in mineralised zone is made.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Suitable bench heights in OB and in mineral zone are being maintained.	
3m	Total area covered under excavation/pits	1.518 ha	1.516 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.16	1:0.15	
3o	Total area put in use under different heads at the end of year	3.332 ha	3.332 ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13=2359 T, 2013-14=9639 T, 2014-15=9805 T, 2015-16= 10024 T, 2016-17=10367 T	2012-13=3442 T, 2013-14=14395 T, 2014-15=5700 T, 2015-16= 8100 T, 2016-17=12100 T	
3q	General remarks of inspecting officers on method of mining etc.	The mining operations are of opencast-semi mechanised method.	As proposed the mining operations are being carried out by semi mechanised method of mining. The machinery being deployed on near base approach while handling OB.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	As proposed OB is dumped at designated place.
4b	Location of topsoil, OB and mineral reject dumps	On the non mineralised ground in South western side of the ML area.	Dumping is being done on the designated place.
4c	Number of dumps within lease area and outside of lease area	One. With in the ML area.	One. With in the ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed dump is beyond UPL	The dump lies beyond UPL.
4e	Number of active and alive dumps.	One	One
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.	Retainig wal is proposed	Construction of retaining wall is under progress.
4j	Number of settling ponds	None	None
4k	Specific comments of inspecting officer on waste dump management	Only one dump is proposed	One dump exists on South western side of the ML area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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	submitted	

6b	Area available for rehabilitation (ha) .	No such proposal is made.	-
6c	afforestation done (ha).	proposed	Afforestation is done in the 7.5m buffer zone.
6d	No. of saplings planted during the year	150	160
6e	Cumulative no .of plants	1000	600
6f	Any other method of rehabilitation	None	-
6g	Cost incurred on watch and care during the year	Rs 12000/-	Rs. 10,000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal is made.	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal is made.	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal is made.	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal is made as the mineral is yet to exhaust.	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	-

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Yes	Done.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0718 ha	1.07 ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	none	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring is proposed	Monitoring is done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Afforestation along 7..5m buffer zone is proposed.	Afforestation along 7.5 m is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting is proposed.	-	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	No such proposal is made.	-	
7d	Any beneficiation process at mines	No such proposal is made.	-	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Manual sagregation of ore is proposed.	By means of manual sagregation no mineral is lost.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal is made.	-	
8b	Concurrent use or storage of topsoil	No such proposal is made.	-	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump for OB is proposed.	OB is dumped seperately.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal is made.	-	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal is made.	-	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposal made.	Complimentary afforesation is being done.	
8g	Survival rate	80%	50%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	water sprinkling on haul roads being periodically done.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation proposal enables aesthetic beauty.	As proposed afforestation is being done to add aesthetic beauty.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR shall be submitted before 10th of every month in respect of preceding month. AR which shall be submitted before 1st July each year for the preceding Financial Year.	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be furnished	Furnished.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished.	Furnished.	
9d	Scrutiny of Annual return on afforestation	To be furnished	Furnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No generation of mineral rejection.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	1194 T	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	Average Ex mine price Rs.3281/-
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Furnished to be Rs. 7,05,286/-
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Furnished.

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

Date :

(M.Pratap.Reddy)

Indian Bureau of Mines