

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-102/HYD

Mine code : 40APR20039

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Asok Konda, Agent & S.Naresh Kumar, Geologist
Official with
Designation
- (iv) Date of Inspection : 23/10/2016
- (v) Prev.inspection date : 18/04/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MAHESHWARI**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : VIZIANAGARAM
Village : BANKURWAVALAYA
Taluka : BOBBILI
Post office : SOMPURAM BANKURWA VALAYA
Pin Code :
FAX No. :
E-mail : nil
Phone :
- (f) Police Station : RAMABHADRAPURAM
- (g) First opening date : 23/02/1991
- (h) Weekly day of rest : SUN
2. Address for : M/S S.K. SARAWAGI &CO (P0) ltd,
correspondance PO: CHIPURAPALLI,
DIST:VIZIYANAGARAM.
3. (a) Lease Number : APR0181
- (b) Lease area : 15.64
- (c) Period of lease : 10
- (d) Date of Expiry : 22/01/2001
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SK SARAWAGI AND (P)CO LTD
 VIZIANAGARAM ANDHRA
 PRADESH
 Phone:08952 83225 &83374
 FAX :

Owner : SK SARAWAGI & CO.
 SK SARAWAGI & CO.
 CHIPURPALLI VILL&PO
 VIZIANAGARAM DISTRICT
 VIZIANAGARAM ANDHRA PRADESH
 Phone:
 FAX :

Agent : ASOK KONDA
 S.K.SARAWAGI & CO(P) Ltd.
 CHEEPURUPALLI VIZIANAGARAM
 DT. VIZIANAGARAM ANDHRA
 PRADESH
 Phone:
 FAX :

Manager
 Name : M.APPALA RAJU
 Qualification : AMIE
 Appointment/ : 01/12/0004
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	31/03/2005
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	10/08/2007
	:	Mining Scheme rule 12 MCDR1988	27/10/2014

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	1.98 ha, 24 CBH	1.98 ha, 24 CBH	Total meterage 622.50 m
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee, Rs. 16,55,520/-	Lessee, Rs. 21,78,750/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	1.50 ha	1.50 ha	
1e	Balance reserve as on 01/04/20	Probable Reserves- 2,62,441 MT(122)	Probable Reserves- 2,62,441 MT(122)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	About 1.5 ha area has to be explored to assess the reserves.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South East and North side	South East and North side	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, 8 benches in OB and 3 benches in Ore	Yes, 8 benches in OB and 3 benches in Ore	
2c	Stripping ratio or ore to OB ratio	1:3	1:7	
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	
2e	Quantity of overburden generation in m3	52,877 Cu.m	27790 Cu.m	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	Pit is developing 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	44632 t	9493 t	
3c	Recovery of sailable/usable mineral from ROM production	44632 t	6830 t	
3d	Quantity of mineral reject generation	N.A	N.A	
3e	Grade of mineral rejects generation and threshold value declared.	>10% Mn	>10% Mn	
3f	Quantity of sub grade mineral generation.	_____	2663 t	
3g	Grade of sub grade mineral generation	_____	10-15% Mn	
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.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	Short hole drilling & Blasting(>3m)	Short hole drilling & Blasting(>3m)	

3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3m	Yes, 3m	
3m	Total area covered under excavation/pits	6.65 HA	6.65 HA	
3n	Ore to OB ratio for the pit/mine during the year.	1:3	1:7	
3o	Total area put in use under different heads at the end of year	9.69 HA	10.21 HA	
3p	Production of ROM mineral during the last five year period as applicable	2011-12---10536 T, 2012-13---NIL, 2013-14---NIL, 2014-15---29180 T, 2015-16---44632 T	2011-12---18400 T, 2012-13---13796 T, 2013-14---NIL, 2014-15---2558 T, 2015-16---9493 T	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	The mining operations are being carried out as per the approved proposals under 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	Yes	
4b	Location of topsoil, OB and mineral reject dumps	South east side of the lease area	South east side of the lease area	
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)	South east side	South east side	
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, Garland drain	Yes, Garland drain	
4i	Length of Retaining wall or garland drain all along dumps	500 m	500 m	
4j	Number of settling ponds	04	04	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	waste is being dumped on to the existing dump at the south east side of the lease area

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.	Full extraction of mineral	Full extraction of mineral	
5b	Area under backfilling of mined out area	0.25 ha	0.25 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable	

5e	General remarks of inspecting officers on backfilling and reclamation etc.			Back filling is being done where the mine workings are extended within 7.5 m safety barrier zone.
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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	
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	NIL	NIL	
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	200	200	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.382 ha	0.30 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes, Quarterly Monitoring is being 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.

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 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.	Below 25% Mn and 35% Mn	Below 25% Mn and 35% Mn	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Grade wise sorting is being done manually.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil is being generated during the current scheme period.	No top soil is being generated during the current scheme period.	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, waste dump	Yes, waste dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 plants	NIL	Violation of Rule 13(1) has been pointed out to the party.
8g	Survival rate	N.A	N.A	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling is being carried out to suppress dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	The ML area is surrounded by Agricultural lands looking greenary.

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	Mining Engineer-NIL, Geologist-K.Santosh Kumar, Manager-U.V.Narasappa	Mining Engineer-J.K.Mohanthy, Geologist-S.Naresh Kumar, Manager-J.K.Mohanthy,	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits-10.20 ha, Reclaimed area-1.71 ha, Area under dump-0.08 ha	Area covered under pits-10.20 ha, Reclaimed area-1.71 ha, Area under dump-0.08 ha	
9d	Scrutiny of Annual return on afforestation	NIL	NIL	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	10-15% Mn, 3463 t	10-15% Mn, 3463 t
9f	Scrutiny of Annual return on ROM stock and/or graded ore	9493 t Below 25% Mn	9493 t Below 25% Mn
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value-Rs.3255/-, Ex.Mine Price-Rs.2571/-, Production cost-Rs.2231/-	Sale Value-Rs.3255/-, Ex.Mine Price-Rs.2571/-, Production cost-Rs.2231/-
9h	Scrutiny of Annual return on fixed assets	Rs.155034/-	Rs.155034/-
9k	Scrutiny of Annual return on mining machineries	Excavator-1, Loader-1, tipper-5, D.G.set-200 KV	Excavator-1, Loader-1, tipper-5, D.G.set-200 KV

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		

Date :

(Ch.Suseela)

Indian Bureau of Mines