

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 40APR20039

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Asok Konda, Director and Sri. P.R. Mishra, RQP
Official with
Designation
- (iv) Date of Inspection : 09-MAR-21
- (v) Prev.inspection date :

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-FEB-91
- (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-JAN-01
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-DEC-04
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	31-MAR-05
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	10-AUG-07
	:	Mining Scheme rule 12 MCDR1988	27-OCT-14
	:	Mining Scheme rule 12 MCDR1988	05-MAY-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2019-20- Nil	2019-20- 02 core boreholes drilled	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	Lessee has carried out exploration work.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	G1-1.85 Ha G2-0.69 Ha Unexplored/non-mineralised area-13.178 Ha	
1e	Balance reserve as on 01/04/20	---	Proved Reserves as on 01/04/2021 - 152407 Te	
1f	General remarks of inspecting officers on geology, exploration etc			Unexplored/balance area is proposed to carry out exploration in the modified mining plan submitted.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2019-20 - H-H' to M-M' E10210-10335 N20066-30304	Work done within proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches proposed for OB and mineral	Seperate benches developed for OB and mineral.	
2c	Stripping ratio or ore to OB ratio	1:4.19	1:0.88	
2d	Quantity of topsoil generation in m3	No proposal	Nil	

2e	Quantity of overburden generation in m3	2019-20 - 54456 cu.m	2019-20 - 9964 cu.m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Benches not developed systematically. In the modified mining plan it was committed by the lessee that benches will be developed systematically for extraction of ore.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	36394 Te	24575 Te	
3c	Recovery of sailable/usable mineral from ROM production	61%	61%	
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 sorting	Manual sorting	
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	Drilling and blasting proposed in mineral benches	Drilling is being carried out by jack hammer machine of 32mm dia holes and blasting with slurry explosives of 25mm dia cartridges.	
3k	Provision of mining machineries in mineral benches	Machineries proposed in mineral benches.	Excavators used for loading and tippers used for mineral transportation.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 3m proposed	Benches not maintained systematically as proposed.	Lessee has committed in the modified mining plan that benches will be corrected and maintained systematically as per proposal.
3m	Total area covered under excavation/pits	7.1301 Ha	7.33 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:4.19	1:088	
3o	Total area put in use under different heads at the end of year	14.6017 Ha	11.5661 Ha	

3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 41434 Te 2017-18 - 41538 Te 2018-19 - 41071 Te 2019-20 - 36395 Te 2020-21(upto 21.01.2021) - 21099 Te	2016-17 - 15330Te 2017-18 - 19430 Te 2018-19 - 12744 Te 2019-20 - 24575 Te 2020-21 (upto 21.01.2021) - 37682 Te	
3q	General remarks of inspecting officers on method of mining etc.			Benches not developed systematically. In the modified mining plan it was committed by the lessee that benches will developed systematically for extraction of ore.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dump proposed for OB	Seperated dump maintained for OB	
4b	Location of topsoil, OB and mineral reject dumps	Sout east side of the lease area	Sout east side of the lease area	
4c	Number of dumps within lease area and outside of lease area	One dump within the lease area	One dump within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Nil	

4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposed	Retaining wall and garland drain constructed along the dump	
4i	Length of Retaining wall or garland drain all along dumps	500m	500m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste is being dumped in the existing dump at the south east side of the lease.

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	
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.			The pit is not mined upto its ultimate pit limit to start backfilling.

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).	To be submitted	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	1.2 Ha	1.2 Ha	
6d	No. of saplings planted during the year	300 Nos.	1000 Nos.	
6e	Cumulative no .of plants	---	3500 Nos.	
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)Afforestati 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	300 Nos.	1000 Nos.	
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 environment monitoring in core zone and buffer zone	Environment monitoring carried out in 2019-20 and the parameters are within the limits.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of the pit is reached to its ultimate pit limit to start reclamation and rehabilitation activities.

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	Grade wise sorting within the 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.	25 % Mn to below 35 % Mn	25 % Mn to below 35 % Mn
7d	Any beneficiation process at mines .	No proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Grade wise sorting is being carried out manually within the lease area.

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)	Seperate dumps for OB proposed	Seperate dumps for OB maintained.	

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)	200 Nos.	1000 Nos.	
8g	Survival rate	No proposal	60 %	
8h	Water sprinkling on roads to control airborne dust	Water tanker to be provided for dust suppression	Water tanker used for dust suppression	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mining area is being surrounded by agricultural lands and some bushes found around the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager - Sri.Gurunath Rao Geologist - Sri.P.Ravikumar	Mining Engineer & Manager - Sri.Gurunath Rao Geologist - Sri.P.Ravikumar
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Openpit - 7.33 Ha Dump - 1.88 Ha	Broadly as per submission.
9d	Scrutiny of Annual return on afforestation	1000 Nos.	Broadly as per submission and verified in afforestation register.
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	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost per tonne is reported as Rs.2808.68/-	1. Total overhead cost, DMF, NMET is not submitted in Part-III, Sl.No.5. 2. In cost per tonne, overhead cost is not matching with the total overhead submitted. 3. In Part-IIA, Sl.No.3, total interest paid is not matching with interest amount mentioned in cost per tonne calculation. Advised to correct the annual returns since it has been referred back by the MMS division.
9h	Scrutiny of Annual return on fixed assets	Fixed asset value is submitted as Rs.84421284/-	-----

9k	Scrutiny of Annual return on mining machineries	Front end loader - 01 No. Tippers - 06 Nos. Shovel - 02 Nos. Water tanker - 01 No.	Machineries found in the mining area.
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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

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines