

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/CDP/FE-9/HYD

Mine code : 30APR04009

- (i) Name of the Inspecting : M029) MADHU SUDHAN YADAV M
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Ramakrishnaiah, Mine Representative, Sri S.R.Kuma
Official with
Designation
- (iv) Date of Inspection : 19-MAR-22
- (v) Prev.inspection date : 23-MAR-18

PART-I : GENERAL INFORMATION

- 1. (a) **Mine Name** : THUMALUR(148.74 HA)
 - (b) **Registration NO.** : IBM/15211/2013
 - (c) **Category** : B Manual
 - (d) **Type of Working** : Opencast
 - (e) **Postal address**
 - State** : ANDHRA PRADESH
 - District** : CUDDAPAH
 - Village** : THUMMALUR
 - Taluka** : NANDIMANDALAM
 - Post office** : THUMMALUR
 - Pin Code** : 516218
 - FAX No.** : -
 - E-mail** : -
 - Phone** : 9440164225
 - (f) **Police Station** : Pendlimarri
 - (g) **First opening date** : 28-FEB-08
 - (h) **Weekly day of rest** : SUN
- 2. **Address for correspondance** : S.K.JAIN, POWER OF ATTONEY HOLDER, DNO.20/1054
R.K.NAGAR , COOPERATIVE COLONY , KADAPA
- 3. (a) **Lease Number** : APR2481
 - (b) **Lease area** : 148.8
 - (c) **Period of lease** : 20
 - (d) **Date of Expiry** : 13-DEC-27
- 4. **Mineral worked** : IRON ORE Main

5. Name and Address of the

Lessee : S.V.SIVA REDDY
1-397/1,COURT ROAD KADAPA
CUDDAPAH ANDHRA PRADESH
Phone:
FAX :

Owner : S.K.JAIN POWER OF ATTONEY HOLDER OF S.V.SIVAREDDY
M/S PACIFIC MINING PVT LTD
DNO.20/1054,R.K.NAGAR ,
COOPERATIVE COLONY KADAPA
CUDDAPAH ANDHRA PRADESH
Phone: 9440164225
FAX : -

Manager

Name : D.RAJA RAMI REDDY
Qualification : Dip.in Mining
Appointment/ :
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	19-SEP-05
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	25-JUN-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	12 Nos. of boreholes proposed to drill	45.60 Ha area is converted into G1 level of exploration by drilling 12 Nos. of core boreholes and 86 Nos. of DTH boreholes.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Lessee itself carried out exploration work	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	102.24 Ha of the lease area to be converted into G1 level of exploration.	
1e	Balance reserve as on 01/04/20	----	Proved Reserves as on 01.04.2022 is 9217061 Te (+35% to 50% of Fe)	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mining lease area not converted to G1 level of exploration. Proposal submitted in the draft Reveiw of Mining Plan to cover the entire lease area under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1598092 - N 1598071 E 240276 - E240489	Work done within proposed co-ordinates	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil and OB bench proposed. Only mineral benches proposed	Benches developed in mineral
2c	Stripping ratio or ore to OB ratio	2020-21 - Nil	2020-21 - Nil
2d	Quantity of topsoil generation in m3	No proposal	Nil
2e	Quantity of overburden generation in m3	No proposal	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mine was not working due to delay in transfer of EC & CFO and same is obtained on 09.04.2021. Mining operations re-strated from Dec 2021 onwards.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	2020-21 - 193099 Te 2021-22 - 215966 Te	2020-21 - Nil 2021-22 - 70200 Te (Till Feb'22)	
3c	Recovery of sailable/usable mineral from ROM production	37%	58%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	

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	No proposal	Nil
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	No drilling and blasting proposed	Drilling and blasting not carried out
3k	Provision of mining machineries in mineral benches	Proposed to use Excavator and Tippers in the mineral benches	Excavator and Tippers used in the mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 6 meters	During inspection it was noticed that the bench height is being maintained 6 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	22.866 Ha	2.74 Ha
3n	Ore to OB ratio for the pit/mine during the year.	2020-21 - Nil	2020-21 - Nil
3o	Total area put in use under different heads at the end of year	33.989 Ha	6.304 Ha

3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 55146 Te 2019-20 - 71011 Te 2020-21 - 71447 Te 2021-22 - 79908 Te	2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22 - 70200 Te (till Feb'22)
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3q	General remarks of inspecting officers on method of mining etc.	Mine was not working due to delay in transfer of EC & CFO and same is obtained on 09.04.2021. Mine re-started from Dec 2021 onwards.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping proposed for intercalated waste	Seperate dump maintained for intercalated waste	
4b	Location of topsoil, OB and mineral reject dumps	N1598608 to N1598815 E239500 to E239757	Dump developed and maintain in the proposed co-ordinates.	
4c	Number of dumps within lease area and outside of lease area	One dump	No new dump developed. Seven old dumps existing within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps outside the UPL	Dumps maintained outside UPL	
4e	Number of active and alive dumps.	One	Nil	
4f	Number of dead dumps.	No proposal	Seven dead dumps in the lease area	
4g	Number of dumps established.	No proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposed around the new dump proposed to develop	Nil	No new dump developed as per proposal
4i	Length of Retaining wall or garland drain all along dumps	Proposed to develop Retaining wall and garland drain around the new proposed dump.	2020-21 - Nil 2021-22 - Nil	No new dumps developed during the year 2020-21 2021-22.
		2020-21 - 100 meters (Retaining wall) & 100 meters (Garland drain)		
		2021-22 - 100 meters (Retaining wall) & 100 meters (Garland drain)		
		2020-21 - 100 meters (Retaining wall) & 100 meters (Garland drain)		
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Seven old dumps maintained in the lease area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.			No area of the mine is excavated upto the 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).	No proposal in terms of area	Nil	
6d	No. of saplings planted during the year	100 Nos.	Nil	Violation issued as per rule for not carrying out plantation as per proposal.

6e	Cumulative no .of plants	No proposal	Nil
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	No proposal	Nil

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 environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed to dispatch sale the ore to steel and sponge iron industries	Depatched to sponge iron industries	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	

7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Ore recovered from ROM is blended with low grade ore before selling.

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)	No proposal	Nil	
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)	Proposed to plant 100Nos. saplings	Nil	
8g	Survival rate	No proposal	Nil	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker & sprinklers provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			No plantation carried out within the lease area as per mining plan proposal. Only thorny bushes found in the lease area.

Compliance of Rule 45:

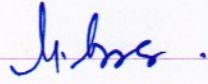
Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted as per rule	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager, Mining Engineer, Geologist details not provided in the returns	Manager - Sri. D. Somaiah Mining Engineer - Sri. S.Tarun Kumar Geologist - J.Suresh Babu	Advised to update the details in the returns portal.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open cast working - 3.743 Ha Waste dump - 1.95 Ha	Broadly as per submission	
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 - 8500 Te	ROM stock - 8500 Te
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

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
MCDR17	Rule 11(1)	30-MAR-22			

Date : 25/04/22


(MADHU SUDHAN YADAV M)

Indian Bureau of Mines