

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/CDP/Fe-2/HYD

Mine code : 30APR04002

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Mahesh, Manager(Mines), Sri. Ramakrishnaiah, Mine
Official with
Designation
- (iv) Date of Inspection : 17-MAR-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHABALI (88.395H)**
- (b) **Registration NO.** :
- (c) **Category** : A Other Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : CUDDAPAH
- Village : CHABALI
- Taluka : PENDLI MARRI
- Post office : CHOUTA PALLI
- Pin Code : 516218
- FAX No. : 08562-244161
- E-mail :
- Phone : 9440164225
- (f) **Police Station** : PENDLIMARRI
- (g) **First opening date** : 15-OCT-03
- (h) **Weekly day of rest** : SUN
2. **Address for** : K.RAJA MOHAN REDDY
correspondance 1/397-1,COURT ROAD,CUDDAPAH.
3. (a) **Lease Number** : APR2476
- (b) **Lease area** : 88.39
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 06-DEC-21
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the
Lessee : K.RAJAMOHAN REDDY
1/397-1 COURT ROAD
CUDDAPAH ANDHRA PRADESH
Phone:
FAX :
6. Date of approval of Mining : Modif.of approved Mining Plan 23-JAN-08
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 09-MAR-11
Mining Scheme rule 12 MCDR1988 28-MAR-11
Mining Scheme rule 12 MCDR1988 11-NOV-16

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	No proposal in 2019-20	48 Nos. DTH holes drilled in 2019-20	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Lessee has carried out DTH drilling with their own drilling machine	
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	G1-38.037 Ha G2-3.5 Ha G3-21.793 Ha G4-25.06 Ha	
1e	Balance reserve as on 01/04/20	---	Proved Mineral Reserves as on 01/03/2021 is 2.6957 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Balance area is proposed to carry out exploration in the Review of Mining plan period.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1602200-1602400 E241000-241400	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB and mineral	Separate benches developed in OB and mineral	
2c	Stripping ratio or ore to OB ratio	1:2.0	1:1.31	
2d	Quantity of topsoil generation in m ³	No proposal	Nil	

2e Quantity of overburden generation in m3 2019-20 - 350599 cu.m 2019-20 - 244823 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 Review of Mining plan it is committed that benches will be developed and maintained systematically for extraction of ore.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	13 pits	Work carried out within the prposed pits	
3b	Quantity of ROM mineral production proposed	2019-20 - 468029 Te	2019-20 - 408602 Te	
3c	Recovery of sailable/usable mineral from ROM production	64%	64%	
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.	None	None
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches	Drilling is being carried out with wagon drill of 115mm dia blast holes with burden-3m, spacing-4m and hole depth of 6m. Blasting is being carried out with 83mm slurry explosives.
3k	Provision of mining machineries in mineral benches	Machineries proposed in mineral benches	Wagon drill, excavators and tippers are being used for drilling, loading and transportation of ore.
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 6m.	Digging height of the excavator is compatible with the bench height.
3m	Total area covered under excavation/pits	21.506 Ha	16 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:2.0	1:1.31
3o	Total area put in use under different heads at the end of year	48.906 Ha	31.506 Ha

3p	Production of ROM mineral during the last five year period as applicable	2016-2017 : 3,63,730 Te 2017-2018 : 4,42,367 Te 2018-2019 : 4,45,212 Te 2019-2020 : 4,17,882.5 Te 2020-21(upto Feb'21)- 468697 Te	2016-2017 : 1,19,635 Te 2017-2018 : 1,36,731 Te 2018-2019 : 260,689 Te 2019-2020 : 3,60,247 Te 2020-21(upto Feb'21) : 85610 Te
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3q	General remarks of inspecting officers on method of mining etc.	Benches not developed systematically. In the Review of Mining plan it is committed that benches will be developed and maintained systematically for extraction of ore.
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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)	Dump proposed for OB	Seperate dump proposed for OB	
4b	Location of topsoil, OB and mineral reject dumps	N1601400-1601800 & E240400-240600	Dump maintained in the proposed location	
4c	Number of dumps within lease area and outside of lease area	Two - within lease area	Two - within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outiside UPL	
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.	No proposal	Nil	Retaining wall and garland drain proposed in the Review of Mining Plan.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Two dumps are developed in the lease. No dumping is being carried out in the dump in southern 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.
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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).	To be submitted	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.60 Ha	0.40 Ha	
6d	No. of saplings planted during the year	700 Nos.	700 Nos.	
6f	Any other method of rehabilitation	Nil	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 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)	Environmental monitoring to be carried out	Environmental monitoring carried out and parameters are within the permissible limits.

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.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area	Grade wise sorting done 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.	45%-55%	45%-55%	
7d	Any beneficiation process at mines .	None	None	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Iron ore produced is sorted manually grade wise 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 dump proposed for overburden	Seperate dump developed for overburden	
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)	700 Nos.	700 Nos.	
8g	Survival rate	---	45%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker is provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done in the 7.5m safety zone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Manager & Mining Engineer- Sri.Y.M. Mahesh Geologist - Sir. Nagasubbaiah	Manager & Mining Engineer- Sri.Y.M. Mahesh Geologist - Sir. Yadaiah	Advised to update the Geologist in the annual returns, since annual returns is being referred back by the MMS division.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working - 21.506 Ha Waste disposal - 4.0 Ha	Same as submitted.	
9d	Scrutiny of Annual return on afforestation	700 Nos.	700 Nos.	
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 Closing stock - 117225 Te Below 55% (Lumps) - 122624.5 Te Below 55% (Fines) - 244231Te	Same as submitted.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is reported as Rs.416.58/-	<p>1. The total DMF and NMET cost not furnished in Part-III,Sl.No.5 & in the cost of production calculation.</p> <p>2. In the cost per tonne, overhead cost and depreciation is not matching with total overhead cost and depreciation.</p> <p>3. In Part-IIA, Sl.No.3, total interest paid is not matching with the interest amount in the cost per tonne calculation.</p>	Advised to correct the annual returns since it has been referred back by the MMS division for correction.
9h	Scrutiny of Annual return on fixed assets	Fixed assest value is submitted as Rs.450000/-	----	
9k	Scrutiny of Annual return on mining machineries	Excavator - 3 Nos. Tippers - 15 Nos. Water Tanker - 1 No.	Same as submitted.	

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