

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

**MCDR INSPECTION 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)  
Official with  
Designation
- (iv) Date of Inspection : 22/02/2020
- (v) Prev.inspection date : 18/06/2018

**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** : 15/10/2003
- (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** : 06/12/2021
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 23/01/2008  
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 09/03/2011  
Mining Scheme rule 12 MCDR1988 28/03/2011  
Mining Scheme rule 12 MCDR1988 11/11/2016

## 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	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	50.0754 Ha	53.25 Ha	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2018 is 70,40,439.88 Tons	Balance reserves as on 01.04.2018 is 70,40,439.88 Tons	
1f	General remarks of inspecting officers on geology, exploration etc	Exploration was proposed in the year 2016-17 during the plan period.	Exploration proposal have been completed.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1601800 - 1602400 & E240800 - 241200	Development carried out as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	2 benches of 6m height is proposed	Carried out as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:0.43	1:1.44	

2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	3,85,231 cu.m	3,46,707 cu.m (Till Jan'20)
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed to work in existing 31 pits.	Work carried out as per proposal.	
3b	Quantity of ROM mineral production proposed	1,78,085 cu.m (498638 Te)	2,60,689 Te	Bulk Density - 2.8 Less production due to less market demand.
3c	Recovery of sailable/usable mineral from ROM production	4,45,213 Te	2,60,689 Te	Less production due to less market demand.
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	None	None	
3f	Quantity of sub grade mineral generation.	None	None	
3g	Grade of sub grade mineral generation	None	None	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
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	Provision for drilling and blasting in the present scheme of mining.	Drilling and blasting has been carried for development and production.
3k	Provision of mining machineries in mineral benches	Excavator- 09nos Wheel loaders- 01 Jack hammer-06 Tractor mounted compressor - 04 Tippers - 16 Crushing & screening plant - 01 Water tanker - 01 Generator- 01	Machineries used as proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	56,935 sq.m	35,283 sq.m
3n	Ore to OB ratio for the pit/mine during the year.	1:0.62	1:0.75

3o	Total area put in use under different heads at the end of year	24.5 Ha	20.2283 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	2016-2017 : 1,19,635 Te 2017-2018 : 1,36,731 Te 2018-2019 : 260,689 Te 2019-2020 : 3,60,247 Te (Till Jan'20)
3q	General remarks of inspecting officers on method of mining etc.		

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB dump -1 Intercalated waste dump -1	Maintained as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	N 1601400- 1601800 & E 240400- 240600	N 1601360-1601730 & E 240380-240580	
4c	Number of dumps within lease area and outside of lease area	Within ML - 2 nos. Outised ML - Nil	Within ML - 2 nos. Outised ML - Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outised UPL	
4e	Number of active and alive dumps.	Two	Two	
4f	Number of dead dumps.	One	One	
4g	Number of dumps established.	One	One	

4h	Whether Retaining wall or garland drain all along dumps are there.	Nil proposal during 2018-19	Nil for the year 2018-19.
4i	Length of Retaining wall or garland drain all along dumps	Nil proposal during 2018-19	Nil for the year 2018-19.
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		

#### 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.	Mineral will be fully extracted before backfilling	Backfilling is not being carried out in the minerlised area.	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	Top soil generated is used in 7.5m buffer zone plantation.
5d	Total area fully reclaimed and rehabilitated	None	None	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		None of the pit is exhausted competley. No proposal for reclamation and rehabilitation during the reporting year.	

## 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).	Nil	Nil	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.4 Ha	0.4 Ha	
6d	No. of saplings planted during the year	700 nos.	700 nos.	
6e	Cumulative no .of plants	2100 nos.	2100 nos.	
6f	Any other method of rehabilitation	None	None	
6g	Cost incurred on watch and care during the year			Rs.10500/- reported by the lessee.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	None	None	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	None	None	



6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Monitoring work carried out as per proposal.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradwise sorting proposed within lease area.	Lump (Below 55%) - 134911 Te Fines (Below 55%) - 319 Te
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	Yes	Yes
7d	Any beneficiation process at mines .	Yes	Crushing
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	
8b	Concurrent use or storage of topsoil	None	None	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Overburden - 1No. Intercalated Waste - 1No.	Maintained as per proposal.	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling done
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes, 0.7 Ha	Done as per proposal.
8g	Survival rate	80 %	50%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed to control the airborne dust.	Carried out as per proposal.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The aesthetic beauty in and around the mine is good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns to be submitted as per rule	Monthly and annual returns submitted as per rule within time.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. Mahesh, Mining Engineer & Sri. Nadipi Obulesh, Geologist	The Geologist appointed was not having experience of 5 years geologist as per the rule 55 (1) 3 of MCDR 2017. Violation issued as per rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings=12 ha. Used for waste disposal =4 ha. Plantation=0.70 ha. Work done under progressive mine closure plan during the year=3.528ha	Covered under current workings=12 ha. Used for waste disposal =4 ha. Plantation=0.70 ha.
9d	Scrutiny of Annual return on afforestation	No mineral reject and sub grade ore generated for the year 2018-19.	No mineral reject and sub grade ore generated for the year 2018-19.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject and sub grade ore generated for the year 2018-19.	No mineral reject and sub grade ore generated for the year 2018-19.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Lump - 40029.3 Te Fines - 162246 Te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost:Rs.472.48 /-	Production cost:Rs.472.48/-
9h	Scrutiny of Annual return on fixed assets	Rs.650000/- reported by the lessee.	

9k      Scrutiny of      Back Hoe -2  
Annual return on Nos  
mining      Tippers - 9  
machineries      Nos  
Water Tanker -  
1 No.

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**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 55(1)(3)	08/05/2020				
MCDR17 Rule 19(1)	08/05/2020				
MCDR17 Rule 31(4)	08/05/2020				

**Date :**

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines