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: K007) SHAIVAL KARTIKEYA

Officer and ID No.

(ii) Designation : Senior Mining Geologist

(iii) Accompaning mine : Shri A. Ramakrishnaiah, Resp. of Lessee

Official with

Designation

(iv) Date of Inspection : 15-JUN-22

(v) Prev.inspection date : 22-FEB-20

PART-I : GENERAL INFORMATION

Mine Name : CHABALI (88.395H) 1. (a)

(b) Registration NO. :

(c) Category : A Other Mechanised

Type of Working (d) : 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

First opening date : 15-OCT-03

Weekly day of rest (h) : SUN

: K.RAJA MOHAN REDDY 2. Address for

correspondance 1/397-1, COURT ROAD, CUDDAPAH.

3. (a) Lease Number : APR2476

(b) Lease area : 88.39 (c) Period of lease : 20

: 06-DEC-21 51 (d) Date of Expiry

Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : K.RAJAMOHAN REDDY

1/397-1 COURT ROAD

CUDDAPAH ANDHRA PRADESH

Phone: FAX :

6.	Date	of	appr	OVE	al	of	Mining	
	Plan	Sch	neme	of	Mi	nir	ng	

	(8)	
:	Modif.of approved Mining Plan	23-JAN-08
	Mining Scheme rule 12 MCDR1988	09-MAR-11
	Mining Scheme rule 12 MCDR1988	28-MAR-11
	Mining Scheme rule 12 MCDR1988	11-NOV-16
	MP review under 17(1) MCR 2016	17-MAY-21

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

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Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	F.Y. 2021-22: 10 nos. of core boreholes and 18 nos. of DTH boreholes up to the contact zone has been proposed.	F.Y. 2021-22: 18 nos. of DTH boreholes with cumulative depth of 550.0 meters has been drilled so far.	Violation has been pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Level area	Not achieved, as the Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned in the approved document.	Sri K. Raja Mohan Reddy, Y.S.R. Kadapa (Andhra Pradesh)	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	3.50 Ha. G2 Level area will be converted into G1 level.	Not achieved, as the Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021	-
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2022 Under (111): 5.1942 Million Tonnes Under (121): 0.9674 Million	Balance reserves as on 01.04.2022 Under (111): 5.6745 Million Tonnes Under (121): 0.9674 Million Tonnes	Average Grade 45.50% Fe

The lease area belongs to the Vempalli stage of Papaghni series of Lower Cuddapah. The iron ore occurs in this area with Ferruginous Shale and Ferruginous Quartzite. The ferruginous shale formation in this area is bedded type which is dark brownish to brownish in colour. The formation is overlying the quartzite.

The thickness of the formation is about 20 m to 30 m. Iron Ore is recovered from this formation. The grade of iron ore varies from 41.58% Fe to 49.50% Fe in ferruginous shale horizon, based on the exploration data. This recovery of iron is about 64% as per the study conducted by the Department of Geology, Vemana University, Kadapa.

The ferruginous quartzite's are observed from the exploration data to a thickness of 30m to 35m. Iron ore is recovered from this formation. The grade of iron ore varies from 41.20% Fe to 49.50% Fe in ferruginous quartzites with ore horizon based on the chemical analysis reports.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In main pit in NE-SW side in between UTM	F.Y. 2021-22: In main pit in NE-SW side in between UTM co-ordinates N1601760 to N1602580 and E240600 to E241300	No major deviation has been found.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no. Mineral/Ore:	OB/Waste: 02 no. Mineral/Ore: 02 nos.	-

2c	Stripping ratio or ore to OB ratio	1:1.86	1 : 0.844	Less production and development during F.Y. 2021-22.
2d	Quantity of topsoil generation in m3		NIL	-
2e	Quantity of overburden generation in m3	421718 CuM	F.Y. 2021-22: 16255.45 CuM	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021. The development and production was done through fully mechanized means.

Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no.	01 no.	_
3b	Quantity of ROM mineral production proposed		F.Y. 2021-22: 19258.00.00 Metric Tonnes	Less production during F.Y. 2021- 22
3с	Recovery of sailable/usable mineral from ROM production	64%	Approx 60%	-
3d	Quantity of mineral reject generation	No proposal	149450.00 Metric Tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	25% Fe	-
3f	Quantity of sub grade mineral generation.	No proposal	NIL	-

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Grade of sub No proposal grade mineral generation 3h Manual / Proposal has Mobile Crusher with 300 Mechanised been given in TPH capacity has been method adopted the approved installed. for segregating document for from ROM installation of Double Deck 125 TPH capacity Mobile Dry Screening Plant for segregation of +40 mm, -40 mmto +10 mm and -10 mm ore from the ROM. 3i Any analysis or -do--dobeneficiation study proposed and carried out for sub grade mineral and rejects. Provision of Drilling Bit Drilling Bit Dia.: 100 3j drilling and Dia.: 100 mm mm Spacing: 3.0 m Spacing: 3.0 m blasting in mineral benches Burden: 3.0 m Burden: 3.0 m Depth: 6.0 m Depth: 6.0 m to 6.30 m to 6.30 m

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3k Provision of mining machineries in

1. Excavator 1. Back Hoe 01 no. with 05 nos. with 1.0 CuM bucket capacity 1.0 CuM to 1.5 2. Dumpers 03 nos. with mineral benches CuM bucket 30 Tonnes capacity 3. Crusher 01 no. with capacity 300 TPH capacity 2. Wheel Loader 01 no. 4. Front End Loader 01 with 1.70 CuM no. with 01 no. with 2.2 CuM bucket capacity bucket capacity 5. Water Tanker 01 no. 3. Jack Hammer with 5000 Liters 06 nos. with capacity 32 mm dia 4. Tractor mounted compressor 04 nos. with 400 CFM capacity 5. Tippers 22 nos. with 16.0 Tonnes capacity 6. Generator 01 no. with 63 KVA capacity 7. DTH drill 02 no. with 100 mm dia. 8. Water Tanker 01 no. with 5000 Liters

31 of benches in overburden and mineral suitable 6.0 m for method of mining proposed in MP/SOM

Whether height OB/Waste: 3.0 OB/Waste: 3.0 m Mineral/Ore:

Mineral/Ore: 6.0 m

Total area 3m covered under

during the year.

to end of excavation/pits review period i.e. F.Y.

21.250 Ha. up 16.894 Ha. up to end of F.Y. 2021-22

for the pit/mine

2025-26

capacity

Ore to OB ratio 1: 1.86 1: 0.844

Less production and development during F.Y. 2021-22.

Total area put in use under different heads Waste/rejectat the end of year

Pit- 21.250

На.

5.7

19.386 Ha. Others- 8.264

На.

Up to end of F.Y. 2025-26 Pit- 16.894 Ha.

Waste/reject- 9.077 Ha.

Others- 4.49 Ha.

Up to end of F.Y. 2021-

22

Production of ROM mineral five year period Yr. 2018-19: as applicable

495452.00

498640.00

Yr. 2019-20:

468029.00 Yr. 2020-21:

468698.00 Metric Tonnes Yr. 2021-22: 499610.00

Metric Tonnes

Yr. 2017-18: Yr. 2017-18: 136731.00

Metric Tonnes

during the last Metric Tonnes Yr. 2018-19: 260689.00

Metric Tonnes

Yr. 2019-20: 408602.00

Metric Tonnes Metric Tonnes

Yr. 2020-21: 66251.00

Metric Tonnes

Metric Tonnes Yr. 2021-22: 19258.00

Metric Tonnes

3q General remarks of inspecting officers on method of mining etc.

Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021. Mining has been carried out through the opencast method with fully mechanized means.

Solid Waste Management - Dumping:

Sl.No.

Item

Propasals

Actual work

Remarks

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal been given in the approved document for separate dumping of OB/Waste/IB in between UTM co-ordinates N1601400 to N1601620 and E240780 to E240890 (2.50 Ha.)	Separate dumping of OB/Waste/IB has been done in between UTM coordinates N1601400 to N1601620 and E240780 to E240890 (2.50 Ha.)	-
4b	Location of topsoil, OB and mineral reject dumps	-do-	-do-	-
4c	Number of dumps within lease area and outside of lease area	01 no.	01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dumping has been proposed beyond ultimate pit limit in between UTM co-ordinates N1601400 to N1601620 and E240780 to E240890	Waste dumping has been done beyond ultimate pit limit in between UTM coordinates N1601400 to N1601620 and E240780 to E240890	-
4 e	Number of active and alive dumps.	01 no.	01 no.	-
4 f	Number of dead dumps.	No proposal	NIL	-
4 g	Number of dumps established.	No proposal	NIL	-

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4h	Whether Retaining wall or garland drain all along dumps are there.	been given in		Violation has bee pointed out.
4i	Length of Retaining wall or garland drain all along dumps	Parapet/Retain ing Wall: 300 m Garland Drain: 300 m	-do-	-do-
4 j	Number of settling ponds	No proposal	NIL	-
4 k	Specific comments of inspecting officer on waste dump management			Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021

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, as the mineral/ore has not been mined out completely.	_
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.

Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021.

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).	Submitted before due date.	Information has been cross verified during inspection.	- · · · · · · · · · · · · · · · · · · ·
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	No proposal	NIL	-
6d	No. of saplings planted during the year	No proposal	NIL	-,
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	

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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		
61	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	500 nos.	550 nos.		
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.674 На.	0.686 На.		
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By Plantation	By Plantation	-	
6p	Compliance of environmental monitoring (core zone and buffer zone)	been given in the approved document for regular monitoring of the environmental parameters in	Has been done as per proposal.	All the parameters are within the permissible limits.	
		the core and			

buffer zone.

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6q General remarks
of inspecting
officers on PMCP
compliance and
progressive
closure
operations etc.

Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal has been given in the approved document for ROM segregation with +40 mm, -40 mm to +10 mm and -10 mm size ore before dispatch.	Being done as per proposal.	-	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanised 125 TPH capacity mobile screening plant.	Mecahnsied 300 TPH capacity mobile screening plant.	-	
7c	Different grade of mineral sorted out at mines.	+40% Fe ore has been proposed for segregation from ROM.	Being done as per proposal.	-	
7d	Any beneficiation process at mines	Proposal has been given in the approved document for installation of Double Deck 125 TPH	Mobile Crusher with 300 TPH capacity has been installed.	-	
		capacity Mobile Dry Screening Plan for segregation of +40 mm, -40 mm to +10 mm and -10 mm ore from the ROM.			

7e General remarks
of inspecting
officer on
Mineral
conservation and
beneficiation
issues

Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021.

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)	approved document for separate	OB/Waste/IB has been done in between UTM co- ordinates N1601400 to N1601620 and E240780 to E240890 (2.50 Ha.)	-	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	,-	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.674 Ha. waste land will be rehabilitated by 500 nos. of saplings.	0.686 Ha. waste land has been rehabilitated by 550 nos. of saplings.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos. of saplings will be planted over 0.674 Ha. waste land.	550 nos. of saplings has been planted over 0.686 Ha. waste land.	
8g	Survival rate	Not mentioned in the approved document.	Approx 50%	-
8h	Water sprinkling on roads to control airborne dust	been given in	Being done as per proposal.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mining Operations are Temporarily Discontinued w.e.f. 01/10/2021.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of	M.R. Submitted up to May 2022	M.R. Submitted up to May 2022	NIL
	Monthly and Annual returns	up to F.Y.	A.R. Submitted up to F.Y. 2021-22	
		2021-22		

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9b Manager: Shri Manager: Shri Y. M. NIL Scrutiny of Annual return Y. M. Mahesh Mahesh for information on Mining Mining Engineer: Shri Y. Mining Engineer: Shri M. Mahesh Engineer, Geologist and Y. M. Mahesh Manager Geologist: Shri K. N. Obulesu Geologist: Shri K. N. Obulesu 9c Scrutiny of Pit- 16.894 Pit- 16.894 Ha. NTT. Annual return on Ha. Waste/reject- 9.077 Ha. land use pattern Waste/reject- Others- 4.49 Ha. for area under 9.077 Ha. pits, reclaimed Others- 4.49 area, dumps etc. Ha. Within lease Within lease area: 550 9d Scrutiny of NIL Annual return on area: 820 nos. nos. of saplings. afforestation of saplings. Survival Rate: 50% Survival Rate: Outside lease area: 270 nos. of saplings. 50% Outside lease Survival Rate: 50% area: 270 nos. of saplings. Survival Rate: 50% 9e 149450.00 149450.00 Metric Tonnes Scrutiny of NIL Annual return on Metric Tonnes with 25%Fe. mineral reject with 25%Fe. generation (Grade and quantity) 9f Scrutiny of Closing Stock: Closing Stock: NIL Annual return on Lumps: Below Lumps: Below 55% Fe: ROM stock and/or 55% Fe: 169316.650 169316.650 Fines: Below 55% Fe: graded ore Fines: Below 225044.850 55% Fe: 225044.850

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Ex-Mine Price Ex-Mine Price 9g Scrutiny of NIL Annual return on Lumps: Below Lumps: Below 55% Fe: Rs. 840.0 Per Metric Tonne sale value, Ex. 55% Fe: Rs. Mine price and 840.0 Per Fine: Below 55% Fe: Rs. production cost Metric Tonne 590.0 Per Metric Tonne Fine: Below 55% Fe: Rs. Sale Value: Zero. (Nil 590.0 Per dispatch during F.Y. Metric Tonne 2021-22) Sale Value: Cost of Production: Rs. Zero. (Nil 210.00 Per Metric Tonne dispatch during F.Y. 2021-22) Cost of Production: Rs. 210.00 Per Metric Tonne 9h Scrutiny of Rs. 450000.00 Rs. 450000.00 NIL Annual return on fixed assets 9k Scrutiny of 1. Back Hoe 01 Cross verified from the NIL Annual return on no. with 1.0 field logbooks. mining CuM bucket machineries capacity 2. Dumpers 03 nos. with 30 Tonnes capacity 3. Crusher 01 no. with 300 TPH capacity 4. Front End Loader 01 no. with 01 no. with 2.2 CuM bucket capacity 5. Water Tanker 01 no. with 5000 Liters capacity

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed

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Show couse position

Rule NO.

Issued on Compliance on

Rule NO. Issued on Compliance on (SHAIVAL KARTIKEYA)

Indian Bureau of Mines

Date : 04/07/2021