

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/437/BNG

Mine code : 30KAR03156

- (i) Name of the Inspecting : **C007**) **J. R. CHAUDHARY**
Officer and ID No.
- (ii) Designation : Controller of Mines
- (iii) Accompanying mine : Accompanied by P.Sreenivasa Rao, GM & Pramod S Ritti,
Official with
Designation
- (iv) Date of Inspection : 15/03/2019
- (v) Prev.inspection date : 10/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HADDINAPADE**
- (b) **Registration NO.** : **IBM/155/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BELLARY
- Village : HULIKUNTA
- Taluka : SANDUR
- Post office : SANDUR
- Pin Code : 583119
- FAX No. : 08395-260471 (F),geosurvey
- E-mail : bkgsurveygeo@gmail.com
- Phone : 08395-252139 (O),
- (f) Police Station : SANDUR
- (g) First opening date : 14/03/2006
- (h) Weekly day of rest : SUN
2. Address for : Sri B. Rudragouda
correspondance #2198,BKG house, K.H.B.Colony,
SANDUR - 583 119,Bellary District Karnataka
3. (a) Lease Number : KAR1504
- (b) Lease area : 54.22
- (c) Period of lease : 20
- (d) Date of Expiry : 13/03/2026
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : B.RUDRA GOUDA
 #2198,BKG house,
 K.H.B.Colony, SANDUR - 583
 119,Bellary District
 BELLARY KARNATAKA
 Phone:
 FAX :

Owner : B.RUDRA GOUDA
 #2198,BKG house,
 K.H.B.Colony, SANDUR - 583
 119,Bellary District
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : NARESH KAKUMANU,Full Time
 Qualification : B.E.IN MINING
 Appointment/ : 24/05/2010
 Termination date

Geologist

Name : PRAMOD S RITTI,Full Time
 Qualification : MSc Applied Geology
 Appointment/ : 01/12/2013
 Termination date

Manager

Name : P.SREENIVASA RAO
 Qualification : FCC, DIP IN MINING ENGINEER
 Appointment/ : 07/04/2006
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	16/05/2007
		Mining Scheme rule 12 MCDR1988	10/09/2012
		MP modif under MCR 1960	23/09/2015
		Mining Scheme rule 12 MCDR1988	03/03/2016
		MP modif under 17(3) MCR 2016	14/10/2016
		MP review under 17(1) MCR 2016	19/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Backlog hence no proposal.	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	10 No & 470m as per old MP and 5 No & 375m in new MMP.	16 Boreholes with 410.50m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency is Central Province Drilling Company.	Rs. 20 lacs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal as no area left for exploitation.	About 24Ha in G3 & 20 Ha in unexplored/Non explored needs to be explored.	
1e	Balance reserve as on 01/04/20	29.00 MMT-Reserves & 16.623 MMT-Resources.	29.00 MMT-Reserves & 16.623 MMT-Resources.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South Block, workings are proposed in cross sections E-E', F-F', G-G' H-H' and I-I'	South Block, workings are proposed in cross sections E-E', F-F', G-G' H-H' and I-I'	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	17 benches are in ore with dyke & Sill intrusions at places	17 benches are in ore with dyke & Sill intrusions at places	
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.15	

2d	Quantity of topsoil generation in m3	No top soil likely to be generated.	As on date about 3700 m3 of Topsoil is generated & utilised in nursery and avenue road plantation purpose.
2e	Quantity of overburden generation in m3	150900 MT 68590.9 Cu M	150900 MT 68590.9 Cu M

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit, workings are proposed in cross sections E-E',F-F', G-G' H-H' and I-I'	Single pit, workings are in cross sections E-E',F-F', G-G' H-H' and I-I'	
3b	Quantity of ROM mineral production proposed	1.26 MMT	1.1657MMT As on 01.03.2019	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No Mineral Reject generation	No Mineral Rejects generated	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	
3f	Quantity of sub grade mineral generation.	No Proposal	Whatever Subgrade mineral generated has been (will be) blended and sold through e-auction.	
3g	Grade of sub grade mineral generation	>45% to <55% Fe	>45% to <55% Fe	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method, Deephole blasting and HEMM are used.	Mechanized method, Deephole blasting and HEMM are used.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No proposal
3j	Provision of drilling and blasting in mineral benches	MS delay detonators & cord relays will be utilised	MS delay detonators & cord relays are utilised for better fragmentation & control of vibration.
3k	Provision of mining machineries in mineral benches	Excavators, Dozers, Wheel loaders, Volvo Dumpers, Drill machine, Compressor, Mobile Crushers & Screens	Excavators, Dozers, Wheel loaders, Volvo Dumpers, Drill machine, Compressor, Mobile Crushers & Screens
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height 6-7m & Width more than 8m	Bench height is 6-7m & Width is 8m
3m	Total area covered under excavation/pits	17.14 Ha	17.14 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	1:0.15
3o	Total area put in use under different heads at the end of year	25.46 Ha	25.46 Ha

3p	Production of ROM mineral during the last five year period as applicable	2013-14: 6,40,000 2014-15: 6,40,000 2015-16: 6,40,000 2016-17: 9,50,000 2017- 18:12,60,000 (in tonnes)	2013-14: 6,34,980 2014-15: 6,36,230 2015-16: 6,36,265 2016-17: 9,44,160 2017-18: 12,56,115 (in tonnes)
3q	General remarks of inspecting officers on method of mining etc.	NA	Mining activity conducted as per approved mining plan

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB. No proposal to handle topsoil & mineral rejects in this year.	Dumping of OB seperately as per approved mining plan.	
4b	Location of topsoil, OB and mineral reject dumps	Overburden dump, In South block section X2-X'2	Overburden dump, In South block section X2'	Dumping in proposed area is not possible owing to denial from forest department to enter into the location & tree felling permission is kept on hold.
4c	Number of dumps within lease area and outside of lease area	3	3	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NW portion of south block	NW portion of south block	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	2	2	

4g	Number of dumps established.	2	2	One Dump in South block is fully stabilized by covering Geo-textile matt, where as another in North block is partly stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	during the year 314m	As on date Retaining Wall-395m, Garland drain-339m constructed.	
4j	Number of settling ponds	1 settling pond	2 constructed	
4k	Specific comments of inspecting officer on waste dump management	NA	Waste management is found systematicaly.	

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	None	
5b	Area under backfilling of mined out area	No proposal	Area is not mactured for backfilling	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Low grade material generated is used for blending with high grade ore	
5d	Total area fully reclaimed and rehabilitated	-No proposal-	NA	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	Area is not matured for 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).	Annual report on PMCP should be submitted in time in compliance to rule 23 e(2).	Annual report on PMCP is submitted for the year 2017-18 in time.	
6b	Area available for rehabilitation (ha) .	No proposal	NA	
6c	afforestation done (ha).	No proposal	Available area within and out side lease plantation done	
6d	No. of saplings planted during the year	No Proposal	11469	
6e	Cumulative no .of plants	No proposal	3 lacs	
6f	Any other method of rehabilitation	No proposal	NA	
6g	Cost incurred on watch and care during the year	No specific proposal	50 lacs	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	NA	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No Proposal	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	NA
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring Locations are Air Quality-10 Surface Water-3 Ground Water-6 Noise-10 Soil-5	Environmental Monitoring is regularly done through MOEF recognised Laboratory.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	Satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Dry crushing & screening for size separation	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method with Crushers and Screening plants	Mechanical method with Crushers and Screening plants	
7c	Different grade of mineral sorted out at mines.	>45% to < 65%	>45% to < 65%	
7d	Any beneficiation process at mines	Dry crushing & screening is done at mines	Crushers of 100-150TPH & Screens 150-250 TPH are utilised	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal since no top soil likely to be encountered at the proposed area for mining.	No action require since no top soil likely to be encountered at the proposed area for mining.
8b	Concurrent use or storage of topsoil	No proposal since no top soil likely to be encountered at the proposed area for mining.	No action require since no top soil likely to be encountered at the proposed area for mining.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden is planned	Overburden is dumped in northwest part of south block of lease area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No OB generation	Low grade ore generated will be used for blending with high grade ore
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	11469
8g	Survival rate	About 80%	About 80%
8h	Water sprinkling on roads to control airborne dust	Yes	6 Water Tankers & 1 Mist spray Air borne dust suppression system is used.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	Satisfactory
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to February-2019 A.R. Submitted up to 2017-18	M.R. Submitted up to February-2019 A.R. Submitted up to 2017-18	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Naresh Kakumanu- Mining Engineer, Pramod S. Ritti - Geologist, P.Sreenivasa Rao- Mines Manager.	Statutory persons employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 15.33 Ha Dump:0.19 Ha	As per approved mining plan.	
9d	Scrutiny of Annual return on afforestation	Total Number of Plantation :11469	Done as per the requirement.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: Nil	None	

9g Scrutiny of Sale value: None
Annual return on 254,23,46,917.
sale value, Ex. 20 Rs,
Mine price and Ex. Mine
production cost price: 2234.61
Rs,
Production
cost: 1309.54
Rs,

9h Scrutiny of Found in order Satisfactory
Annual return on
fixed assets

9k Scrutiny of
Annual return on
mining
machineries

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 :

(J. R. CHAUDHARY)

Indian Bureau of Mines