

**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 : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri. P.SREENIVASA RAO, GM-Mines Shri. PRAMOD S RITTI
Official with
Designation
- (iv) Date of Inspection : 23/02/2023
- (v) Prev.inspection date : 26/08/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HADDINAPADE**
- (b) **Registration NO.** : **IBM/44782/2022**
- (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** : 07/04/2006
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Sri B. Rudragouda
#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 : M/s BKG MINING PRIVATE LIMITED
 NO. 2198, BKG HOUSE
 KHB COLONY
 SAND BELLARY KARNATAKA
 Phone:9448395401
 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/ : 10/12/2008
 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	:	Fresh under rule 22 MCR1960	10/06/2003
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
	:	MP review under 17(1) MCR 2016	09/11/2020
	:	Modif.approved Mining Scheme	12/10/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	6 No of Boreholes with meterage of 410 & 8 No of Trail Pits	7 No of Boreholes drilled with meterage of 412 & 8 No of Trail Pits	As reported in AR 2021-22.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	Central Province Drilling Company, Nagpur, 22 Lakhs Rupees spent for exploration	As reported by the Lessee during inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1- 59.18 ha, G-2- 1.02 ha. G-3- 19.606 ha.	G-1- 59.18 ha, G-2- 1.02 ha. G-3- 19.606 ha.	As per the last approved document dated 12/10/2021. Detailed exploration is in progress.
1e	Balance reserve as on 01/04/20	38,239,960 tonnes of iron ore (28,774,630 tons with avg grade Fe-+45% & 9,465,330 tons with avg grade +35-45% Fe) as on 1.04.2021.	36,677,840 tonnes of iron ore as on 1.04.2022.	The details of Mineral Reserves and Resources estimated at the end of the year is not reported correctly in ''tonnes'' in Pat-V-Sec 3 of AR 2021-22 as per the last approved modifications to the approved mining plan dated 12/10/2021. Violation issued under Rule 45(7) of MCDR 2017.

1f	General remarks of inspecting officers on geology, exploration etc	i)The details of Mineral Reserves and Resources estimated at the end of the year is not reported correctly in ''tonnes'' in Pat-V-Sec 3 of AR 2021-22 as per the last approved modifications to the approved mining plan dated 12/10/2021. Violation issued under Rule 45(7) of MCDR 2017.	ii)The record of 7 nos. of Exploratory boreholes drilled during year 2021-22 were not found maintained properly with all details in ''Form-J'' as per provision of this rule. Violation issued under Rule 48 of MCDR 2017.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South block (Sec C-C' to J-J') N 1661989-1661570 E 665991-666782	Development carried out within the proposed extent as per the proposal	Working moved in SW & NE direction of South pit. Between Cross-sections C-C' to J-J'
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral are proposed	Separate benches in overburden and mineral area maintained.	6m avg bench height maintained for both OB & mineral benches.
2c	Stripping ratio or ore to OB ratio	1:0.01 (in tons) proposed.	1:0.01(in tons) achieved	Ore-1,562,120 tons&OB- 25,795 tons (As reported in AR 2021-22)
2d	Quantity of topsoil generation in m3	117 Cu.m. proposed	117 Cu.m topsoil generated.	Topsoil generated is utilized in nursery and avenue road & safety zone plantation.
2e	Quantity of overburden generation in m3	12,400 Cu.m proposed (24,800 Tons)	12,897 Cu.m generated (25,795 Tons)	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development carried out within the proposed extent as per the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed (South block)	Working is done in South block only as per the proposal	NIL
3b	Quantity of ROM mineral production proposed	1,563,220 Tons proposed	1,562,120 Tons achieved	As reported in AR 2021-22.
3c	Recovery of sailable/usable mineral from ROM production	100% proposed	100% achieved	NIL
3d	Quantity of mineral reject generation	No proposal	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	NIL
3f	Quantity of sub grade mineral generation.	No proposal	NIL	NIL
3g	Grade of sub grade mineral generation	No proposal	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Only dry crushing & screening proposed	Dry crushing & screening carried out. Crusher-150 tph- 1 no, Screen-250 tons /hr.- 3nos.	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Deep hole Drilling & Blasting is proposed.	Drilling & Blasting carried out with slurry explosives in conjunction with detonators	Drill-100 mm-1 no.
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed:	1.Excavator- 4 nos.-(1.1 Cum). 2.Wheel loader-6 nos. (1.7 & 3.5 Cum) 3.Dumper-10 nos.- (35 tons) 4.Drill-1 no. (100 mm) 5.Water tanker- 5 nos.- (8 KL)	As reported in AR 2021-22.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height 7m for both OB & mineral.	6m avg bench height maintained for both OB & mineral benches	NIL
3m	Total area covered under excavation/pits	22.97Ha as on 1.4.22 proposed	22.93 ha as on 1.04.22.	The land use (area in ha) as given in Part-I (12) of AR 2021-22 under 12(ii), i.e., Covered under current(O/C) workings & 12(vi) i.e., other purpose has not been reported correctly in accordance with approved land use pattern of the last approved modifications to the approved mining plan dated 12/10/2021. Violation issued under Rule 45(7) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.01 (in tons) proposed.	1:0.01 (in tons) achieved	Ore-1,562,120T &OB- 25,795T (As reported in AR 2021-22)

3o	Total area put in use under different heads at the end of year	Area under Mining - 22.97 Ha, Waste Dump- 2.43 Ha Infrastructure & roads - 2.556 Ha (As on 1.04.22)	Covered under current (O/C) workings - 22.93Ha, Used for waste Disposal - 2.10Ha. Occupied by plant, buildings, residential, welfare buildings & Roads - 2.556 Ha (As on 1.04.22)	The land use (area in ha) as given in Part-I (12) of AR 2021-22 under 12(ii), i.e., Covered under current(O/C) workings & 12(vi) i.e., other purpose has not been reported correctly in accordance with approved land use pattern of the last approved modifications to the approved mining plan dated 12/10/2021. Violation issued under Rule 45(7) of MCDR 2017.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 12,60,000 2018-19: 12,60,000 2019-20: 12,60,000 2020-21: 12,60,000 2021-22: 15,63,220 (In tonnes)	2017-18: 12,56,115 2018-19: 12,58,075 2019-20: 12,58,145 2020-21: 12,58,145 2021-22: 15,62,120 (In tonnes)	NIL
3q	General remarks of inspecting officers on method of mining etc.			The land use (area in ha) as given in Part-I (12) of AR 2021-22 under 12(ii), i.e., Covered under current(O/C) workings & 12(vi) i.e., other purpose has not been reported correctly in accordance with approved land use pattern of the last approved modifications to the approved mining plan dated 12/10/2021. Violation issued under Rule 45(7) of MCDR 2017

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed at AD-1 & PTD-1 dump.	Separate dumping of OB carried out at dump AD-1 & PTD-1 as per the proposal	NIL
4b	Location of topsoil, OB and mineral reject dumps	AD-1 N-1662087-1662057 E-666070-666159 PTD-1 N-1662669-1662562 E-665914-665963E	Waste dumping carried out at AD-1 & PTD-1 within the proposed extent as per the proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	5 dumps within lease. D-2, D-3 & D-4 inactive dump & AD-1 & PTD-1 active dump	5 dumps within lease. D-2, D-3 & D-4 inactive dump & AD-1 & PTD-1 active dump	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	D-2, D-4 & D-3 (inactive dumps) within UPL and AD-1 & PTD-1(active dumps) outside UPL	D-2, D-4 & D-3 (inactive dumps) within UPL and AD-1 & PTD-1(active dumps) outside UPL	As per the current exploration data.
4e	Number of active and alive dumps.	2 active dumps AD-1 & PTD-1	2 active dumps AD-1 & PTD-1	NIL
4f	Number of dead dumps.	3 dead dumps D-2, D-3 & D-4	3 dead dumps D-2, D-3 & D-4	NIL
4g	Number of dumps established.	No proposal	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	PTD-1 GD-1=430m RW-1=430m & AD-1 RW-2=180m GD-2=180m	Retaining wall and garland drain construction along the dump PTD-1 & AD-1 carried out as per the proposal and field conditions.	NIL
4i	Length of Retaining wall or garland drain all along dumps	PTD-1 GD-1=430m RW-1=430m & AD-1 RW-2=180m GD-2=180m	Retaining wall and garland drain construction along the dump PTD-1 & AD-1 carried out as per the proposal and field conditions.	NIL

4j	Number of settling ponds	No proposal	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management			The processed output [digital elevation model (DEM) and Orthomosaic] data have not been completely submitted in accordance with the Standard Operating Procedures under sub rule (5) of rule 34A of MCDR, 2017 for carrying out drone survey and submission of Digital Aerial Images of Mining areas. Violation issued under Rule 34A. (1) of MCDR 2017.

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	NIL
5b	Area under backfilling of mined out area	No proposal	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling proposals.

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 to be submitted before 1st of July every year.	Annual report on PMCP is submitted via e-mail for the year 2021-22 on 29.04.2022	NIL
6b	Area available for rehabilitation (ha) .	0.53 ha available in safety zone	0.53 ha	Safety zone plantation
6c	afforestation done (ha).	0.53 ha available in safety zone	0.53 ha	Safety zone plantation
6d	No. of saplings planted during the year	600 plants plantation proposed	722 plants plantation carried out	As per AR 2021-22.
6e	Cumulative no .of plants	2155 nos. cumulative proposed.	2277 nos. cumulative as on 1.04.2022.	As reported by the Lessee during inspection.
6f	Any other method of rehabilitation	No proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs. 57000/- proposed for green belt plantation.	As per proposal.	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No proposal	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	NIL	NIL

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & buffer zone	Environmental monitoring carried out in core & buffer zone for Air, water, noise & soil as per the proposal. Oct-22 & Feb-23 reports available during inspection. Parameters within limit	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP work carried out inside the mine as per the proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dry crushing & Screening proposed	Dry crushing & screening carried out. Crusher-150 tph- 1 no, Screen-250 tons /hr.- 3nos.	Product size- - 10mm(fines), 10-40 mm (lumps).
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Dry crushing & screening proposed with grade wise sorting.	Lumps (Fe-grade): Below 55% 55-58% 58-60% 62-65 % Fines (Fe-grade): Below 55% 58-60 % 60-62 % 62-65 %	Grade as reported in AR 2021-22
7c	Different grade of mineral sorted out at mines.	Dry crushing & screening proposed with grade wise sorting.	Lumps (Fe-grade): Below 55% 55-58% 58-60% 62-65 % Fines (Fe-grade): Below 55% 58-60 % 60-62 % 62-65 %	Grade as reported in AR 2021-22
7d	Any beneficiation process at mines	No Proposal	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation activities carried out inside the mine as per the proposal.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	117 Cu.m. proposed	117 Cu.m topsoil generated	Topsoil generated is utilized in nursery and avenue road & safety zone plantation.

8b	Concurrent use or storage of topsoil	117 Cu.m. proposed	117 Cu.m topsoil generated	Topsoil generated is concurrently utilized in nursery and avenue road & safety zone plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB proposed at AD-1 & PTD-1 dump.	Separate dumping of OB carried out at dump AD-1 & PTD-1 as per the proposal	No mineral reject generation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2155 nos. cumulative proposed.	2277 nos. cumulative as on 1.04.2022.	As reported by the Lessee during inspection.
8g	Survival rate	80% proposed	85% achieved	As reported in AR 2021-22
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul roads proposed to control the air borne dust	5 Water Tankers of 8000Ltrs capacity is used for water sprinkling on roads.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine was very good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to January 2023 on 08.02.2023 ***** A.R. Submitted up to 2021-22 on 29.06.2022	M.R. Submitted up to January 2023 on 08.02.2023 ***** A.R. Submitted up to 2021-22 on 29.06.2022	NIL
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.	Appears to be correct	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) workings - 23.66Ha, Used for waste Disposal - 2.10Ha. Occupied by plant, buildings, residential, welfare buildings & Roads - 2.556 Ha Other purpose- 51.49 ha	Part-I: The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings & 12(vi) i.e., other purpose has not been reported correctly in accordance with approved land use pattern of the last approved modifications to the approved mining plan dated 12/10/2021.	Violation issued under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	11722 nos. with 85 % survival rate.	The number of trees planted during the year have not been reported correctly in Sec-4.4 of Part-V.	Violation issued under Rule 45(7) of MCDR 2017.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: O/s -0 ton, Production - 15,62,120 tons, C/s - 0 ton Graded Ore O/s- 2,15,046 tons Production- 15,62,120 tons Despatch- 14,87,189 tons C/s- 2,89,977 tons. (Includes both lumps & fines)	Appears to be correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price:Rs/Ton, LUMPS <55% - 2797 55-58% - 4914 58-60% - 5337 62-65% - 5513 FINES <55% - 1369 58-60% - 3680 60-62% - 4032 62-65% - 5328 Cost of production: 1635.02 Rs/Ton,	Appears to be correct	Non captive mine
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets Rs 32,43,900/- including industrial, plant and machinery and capitalized expenditure.	Appears to be correct	NIL

9k	Scrutiny of Annual return on mining machineries	Excavator- 4 nos.-(1.1 Cum). Wheel loader-6 nos. (1.7 & 3.5 Cum) Dumper-10 nos.- (35 tons) Crusher- 250 TPH-1 no. Drill-100 mm-1no.	Sec-5-TheCrusher capacity have not been furnished correctly.The water sprinkler details have not been provided in Sec.5 of Part-V	Violation issued under Rule 45(7) of MCDR 2017.
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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
MCDR17 Rule 34(1)	17/03/2023		Rule 45(7)(i)(a)	17/03/2023	
MCDR17 Rule 48	17/03/2023				
Rule 45(7)(i)(a)	17/03/2023				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines