

I/26077/2024

**Mining Plan Modification REPORT**

**Bangalore regional office**

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

**Mine code :** 30KAR03156

- (i) Name of the Inspecting : **S47** ) **DR. Sudhakara T.L**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri. P.Sreenivasa Rao, GM-Mines, Shri. Pramod S Rit  
Official with  
Designation
- (iv) Date of Inspection : 22/08/2023
- (v) Prev.inspection date : 08/08/2018

**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 : 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 : 79.8
- (c) Period of lease : 50
- (d) Date of Expiry : 13/03/2056
4. Mineral worked : IRON ORE Main

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## 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

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	NIL	
1b	Exploration over lease area for geological axis 1 or 2	7 nos. of Boreholes 390meters.	8 nos. of Boreholes 393meters.	In the lease area in total 143 drilled holes have been drilled covering over 6047.2 m of drilling, Diamond Drill holes : 112, DTH Drill holes : 31
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Central Province Drilling Company, Nagpur	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	As per G1 : 66.11Ha G2: 9.05Ha Area to be explored: 4.646 Ha Area proved as non-mineralized 11.05ha
1e	Balance reserve as on 01/04/20	reserves 38239960 tons as on 01.04.2021	reserves 34968720 Tons as on 01.04.2023	
1f	General remarks of inspecting officers on geology, exploration etc			Part of the minerlaized area under G2 and un-explored area is no mining area, hence, lessee has not explored. Lessee has to explore the area under after getting clearance from DMG, State Govt. of Karnataka

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	South Block N 1662056 - 1661570 E 665980-666782	South Pit N 1662056-1661570 E 665980-666782	Working moved in SW & NE direction of South pit. Between Cross-sections C-C' to J-J'. Development carried out within the proposed extent
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral is proposed	Separate benches in waste and ore are maintained.	OB:2 Ore: 18 benches with height of >6m & width of ?8m done.
2c	Stripping ratio or ore to OB ratio	1:0.021 Ore-1710000T & OB-37110T	1:0.022 Ore-1709120T & OB-37905T	
2d	Quantity of topsoil generation in m3	64 m3	64 m3	Lessee stated that, topsoil of 64m3 is utilised in the nursery, plantation in avenue road & safety zone.
2e	Quantity of overburden generation in m3	18555 m3 (37110 Tons)	18952.5m3 (37905 Tons)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Lessee has carried out development very systematically as per the approved Mining Plan. Maintained the bench geometry as proposed and achieved the production of mineral and development as proposed.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit in South Block	Production is from South Pit only	
3b	Quantity of ROM mineral production proposed	1710000 tonnes	1709120 tonnes	

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3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No Proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	NIL	
3f	Quantity of sub grade mineral generation.	No Proposal	NIL	
3g	Grade of sub grade mineral generation	No Proposal	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed for segregating from ROM	Mechanised method adopted for segregating from ROM	Crushing and screening adopted to segregate lumps and fines
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	NIL	
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.	The formations are mostly soft & drilling blasting is done only in hard litho units.
3k	Provision of mining machineries in mineral benches	Excavators, Wheel loaders, Volvo Dumpers, Drill machine, Compressor, Mobile Crushers & Mobile Screens	Excavators-7, Wheel loaders-5 Volvo Dumpers-10 Drill machine-1 & Compressor, Mobile Crusher-2 & Mobile Screens-3	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height 6m & Width more than 8m	Bench height is 6m & Width is 7.8m	Bench parameters are maintained as per the approved mining plan.
3m	Total area covered under excavation/pits	33.106 Ha	32.671Ha	

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3n	Ore to OB ratio for the pit/mine during the year.	1:0.021	1:0.022
3o	Total area put in use under different heads at the end of year	Mining-23.76Ha Waste Dump-3.03Ha Infrastructure-0.016Ha Roads-2.54Ha Safety Zone-3.03Ha Mineral Storage-0.73Ha Total-33.106 Ha	Mining-23.73Ha Waste Dump-2.625Ha Infrastructure-0.016Ha Roads-2.54Ha Safety Zone-3.03Ha Mineral Storage-0.73Ha Total- 32.671Ha

3p	Production of ROM mineral during the last five year period as applicable	2018-19: 12,60,000 2019-20: 12,60,000 2020-21: 12,60,000 2021-22: 15,63,220 2022-23: 17,10,000 ( in tonnes)	2018-19: 12,58,075 2019-20: 12,58,145 2020-21: 12,58,145 2021-22: 15,62,120 2022-23: 17,09,120 ( in tonnes)
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3q	General remarks of inspecting officers on method of mining etc.	The Mine is a fully mechanized mine. Machineries as proposed are engaged for development, Production and sorting of ore. The mine is systematically developed by maintaining the bench height and width as proposed.
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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)	Separate dumping of OB	Separate dumping of OB done. Topsoil generated has been utilised for plantation.	Waste dumping not carried out as per approved Mining plan. Violation pointed out unde Rule 11(1) of MCDR, 2017

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4b	Location of topsoil, OB and mineral reject dumps	Dump is located in NW part	Waste dump is in NW part of ML Area.	Location of waste dump is in North Western side of the ML Area.
4c	Number of dumps within lease area and outside of lease area	05 dumps	5	2 active dumps, 02 stabilized dumps and 01 dead dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	03 dumps within UPL	Dump Ad-1 within UPL and part of stabilized dump D2 & D4 are within UPL.	03 dumps within the UPL
4e	Number of active and alive dumps.	1 Each in North (PTD1) & (AD1) in South Block are active.	1 Each in North PTD1 & AD1 in South active.	
4f	Number of dead dumps.	03 nos. D-2, D-3 & D-4	03 nos. D-2, D-4 -South & D-3 in North	Dump D2 and D4 are stabilized.
4g	Number of dumps established.	02 nos.	2 nos. D-3 & D-4	One Dump each in North & South block (dead dumps) are fully stabilized with Geotextile matt. Geotextile laying on dump- PTD1 in North block is in progress.
4h	Whether Retaining wall or garland drain all along dumps are there.	YES, R& R structures are present.	Maintenance of the R& R structures	YES, R& R structures are present along the toe of the dumps.
4i	Length of Retaining wall or garland drain all along dumps	Maintenance of earlier constructed structures	Maintenance of the R& R structures done	No proposal for construction of Retaining wall or garland drain
4j	Number of settling ponds	No proposal during the year	NA	

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4k	Specific comments of inspecting officer on waste dump management			Out of 05 dumps, 02 dumps are stabilized. Lessee has made efforts to stabilize the dumps by laying coir matting and grassification. Dumping proposed at AD-1 dump is not carried out and dump site PTD-1, the waste dumping had exceeded the originally proposed limit. For this violation pointed out under Rule 11(1) of MCDR.
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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	Pit is not matured for backfilling.
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	Utilized for plantation	Lessee has utilized the topsoil generated for plantation in safety zone, nursery and all along the haulage road.
5d	Total area fully reclaimed and rehabilitated	No Proposal	NIL	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Presently, the pit is not matured for backfilling, ore exists beyond the working depth. Once the ore is exhausted in the pit/or part of the pit backfilling may be carried out.
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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).	Submitted	Annual report (2022-23) on PMCP is submitted.	Received vide e-mail dated 07.08.2023
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	0.53 Ha	0.53 Ha	Safety zone plantation.
6d	No. of saplings planted during the year	600 nos.	700 nos.	
6e	Cumulative no .of plants	No proposal	36780 nos.	
6f	Any other method of rehabilitation	No proposal	NIL	
6g	Cost incurred on watch and care during the year	Rs 57000/-	Rs 16,08,735/-	As reported by lessee during the inspection
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)Afforestation on 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)	Monitoring Locations are Air Quality-10 Surface Water-3 Ground Water-6 Noise-10 Soil-5 Personal Dust Sampling,	Environmental Monitoring is regularly done in core & buffer zone.	Environmental Monitoring done by Mineral Engineering Services, Ballari, an MOEF recognised Laboratory.

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Lessee has carried out PMCP activities as per proposal. Environmental monitoring done regularly from the MOEF recognized lab. As per the reports, the parameters analysed for air, water and noside are within permissible limit.
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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	Dry crushing & screening for size separation is done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method	Mobile Crushers and Screening plants are used for grade wise sorting.	Capacity of machines is Crusher-100-150 T/Hr & Screen-250 T/Hr
7c	Different grade of mineral sorted out at mines.	+10to - 40 mm size -5 to +20 mm -10mm size  >35% to < 65%	Lumps: Fe 45 to 51% Fe 55 to 58% Fe 58 to 60% Fe 60 to 62% Fe 62 to 65% Fines: Fe 45 to 51% Fe 55 to 58% Fe 58 to 60% Fe 60 to 62% Fe 62 to 65%	Lessee has sorted different graded and size material within the lease.
7d	Any beneficiation process at mines	Dry crushing & screening.	Dry crushing & screening of ROM with mobile plants is done at mines.	Only Mobile Screens & Crushers are being utilised.

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Lessee has separated the different grade ores, also lumps and fines by crushing and screening. Mineral conservation carried out as per the proposal.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Generation of 64 CuM	64CuM of Top Soil generated has been utilised.	So far generated Top soil has been utilised in Safety zone, nursery & Avenue road for plantation purpose.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste dumping is proposed In the South & North block of the pit.	Waste is dumped in the area allotted for in proposed temporary dump (PTD1).	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600	700	Total 36780 sapplings have been planted. Within lease area.
8g	Survival rate	80	80	
8h	Water sprinkling on roads to control airborne dust	Yes	5 Water Tankers of 8000Ltrs capacity & 1 Air borne dust suppression system is used	Fixed water sprinklers (jet) on waste dumps, and drip irrigation is done at fruit bearing plantation & at in-house Nursery.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The asthetic beauty in and around the mine is very good.

## 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 July 2023 ***** A.R. Submitted up to 2022-23		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : 06 Diploma Mining Engineer : 08 Geologist : 02 Mines Manager :01	Appears to be correct .	Following officials were present during the day of inspection. Naresh Kakumanu- Mining Engineer, Pramod S. Ritti - Geologist, P. Sreenivasa Rao - Mines Manager
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining-23.73Ha Waste Dump- 2.625Ha Infrastructure -0.016Ha Roads-2.54Ha Safety Zone- 3.03Ha Mineral Storage-0.73Ha Total- 32.671Ha	Appears to be correct	

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9d	Scrutiny of Annual return on afforestation	700	Appears to be correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: Nil Graded ore (in Tons):	Graded ore stock reported appears to be correct

LUMPS

45-51%-  
389949.38  
51-55%- 0.00  
55-58%- 166.16

58-60%-  
5258.05  
60-62% -  
371.00  
62-65% -  
32705.76

FINES

45-51%-  
596015.01  
51-55%-  
135.26  
55-58% -  
123.01  
58-60% -  
213.31  
60-62% -  
700.02  
62-65% -  
37381.91

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Rs 3022373630.13 Ex. Mine price: Rs/Ton, LUMPS 45-51%- 1383 51-55%- 0.00 55-58% - 2741 58-60% - 3212 60-62% - 0.00 62-65% - 4146 FINES 45-51%- 975 51-55%- 0.00 55-58% - 0.00 58-60% - 2179 60-62% - 2880 62-65% - 3667 Production cost: 1572.96 Rs/Ton	There was an inconsistency interest paid details considered in cost of production and in Capital Structure.	Violation pointed out under Rule 45(7)
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets Rs 19085000	In PART-II A (Capital Structure), section (1) of Annual return, Value of fixed assets mentioned as 'zero'.	Violation pointed out under Rule 45(7)
9k	Scrutiny of Annual return on mining machineries	Wheel loader : 05 nos. Shovel : 07 nos. Crusher : 02 nos. Dumper : 10 nos. Water tanker: 05 nos. Drilling : 01 no.	Appears to be correct	

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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 11(1)	28/08/2023	10/11/2023	MCDR17	Rule 45(7)	28/08/2023	11/10/2023
MCDR17	Rule 45(7)(a)	28/08/2023	11/10/2023				

**Date :****(DR. Sudhakara T.L)**

Indian Bureau of Mines