

MCDR INSPECTION REPORT

S. N.	Particulars	Details
1	Name of the Mine	Haddinapade Iron Ore Mine ML No:2516
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest- 79.806 Ha Non Forest - NIL
3	Mine code	30KAR03156
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/44782/2022
5	Name of the lessee, Address, phone, email and fax number	M/s BKG Mining Private Limited #2198,BKG House, KHB Colony,SANDUR-583119, Ph:08395252139,Fax:260471, Email:geosurvey@bkggroup.in
6	Village	Hulikunta
7	Taluk/Mandal	SANDUR
8	District	BALLARI
9	Pin code	583119
10	State	KARNATAKA
11	Post office	SANDUR
12	Nearest police station	SANDUR
13	Nearest Railway station	HOSAPETE
14	Date of Grant of Mining Lease	27.02.2006
15	Date of Execution	14.03.2006
16	Date of opening of Mine	07.04.2006
17	Date of first Renewal, if applicable and its period & expiry	-NA-
18	Date of second Renewal, if applicable and its period & expiry	Date of Expiry=13.03.2056
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-NA-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	-NA-
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	-NA-
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<u>Previously</u> P.SREENIVASA RAO DOA: 07.04.2006 up to 19.06.2024. <u>Current</u> SIRIKI SATYANARAYANA DOA: 19.06.2024 #2198,BKG House, KHB Colony,SANDUR-583119, Ph:08395252139, Email:satya.s@bkggroup.in
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<u>Previously</u> NARESH KAKUMANU,B.E. Mining,18 Years, DOA:24.05.2010 up to 27.05.2024. <u>Current</u> GOPI KRISHNA REGANI, B.E. Mining, 06 Years, DOA: 28.05.2024. #2198,BKG House, KHB Colony,SANDUR-583119, Ph:08395252139, Email:

		gopi@bkggroup.in
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & Carrying out their duties as per rule 43 & 44.	Pramod S. Ritti, M.Sc Applied Geology, #2198,BKG House, KHB Colony,SANDUR-583119, Ph:08395252139,Fax:260471 Email: pramod@bkggroup.in DOA:10.12.2008, YES
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval of Mining Plan : 1. MP/BLR/Fe-37/SZ dated 12.05.2003. 01.04.2006 to 31.03.2011 (for initial grant for the area 80.126 Ha) Modified Mining Plan : 1. MP/BLR/Fe-37-SZ dated 16.05.2007. 16.05.2007 to 31.03.2011 (for reduction in lease area to 54.23 Ha) 2. <u>MCDR-MPCOFE/17/2023-BNG-IBM RO BNG dated 12.10.2023. 2023-24 to 2025-26.</u> Review of Mining Plan: 1. 279/767/2003/BNG/619 dated 09.11.2020. 01.04.2021 to 31.03.2026 (Regular RMP). Modification in RMP: 1. 279/767/2003/BNG/1052 dated 12.10.2021. 01.04.2021 to 31.03.2026 (To incorporate increase in production to 1.71 MMT)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining : 1. KNT/BLR/MS/Fe-186-SZ dated 10.09.2012. 01.04.2011 to 31.03.2016 (Regular scheme). 2. 279/767/2003/BNG/739 dated 03.03.2016. 01.04.2016 to 31.03.2021 (Regular Scheme). Modification in Scheme of Mining Plan: 1. 279/767/2003/BNG/2002 dated 24.09.2015. 24.09.2015 to 31.03.2016 (for increase in lease area from 54.23 Ha to 79.806 ha) 2. 279/767/2003/BNG/1704 dated 17.10.2016.17.10.2016 to 31.03.2021 (for change in annual production capacity 0.64 MMT to 1.26 MMT). 3. 279/767/2003/BNG/644 dated 19.09.2018. 19.09.2018 to 31.03.2021 (for change in working area)
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/ Non captive	Non Captive
31	Date of inspection	03.12.2024 By Dr. Suresh Prasad, Regional Controller of Mines and Dr. Sudhakara T. L. Senior Mining Geologist
32	Name of accompanying mine officials with designation	Shri. P.Sreenivasa Rao, GM-Mines Shri. Pramod S Ritti, DGM-Geology Shri. Siriki Satyanarayana, AGM-Mines

1. Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	No backlog
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	NIL	During the year 2023-24, there are no proposals; however, for the subsequent years 2024-25 and 2025-26, a total of 11 boreholes have been proposed. Core drilling is in progress.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	NIL	Exploration Agency: CPDC Nagpur.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per Approved Mining Plan G1: 66.11Ha G2: 9.05 Ha Non-mineralized: 11.05 Area to be explored : 4.646 Ha	Nil	As per Approved Mining Plan G1: 66.11Ha G2: 9.05 Ha Non-mineralized: 11.05 Area to be explored : 4.646 Ha
1e	Balance reserves as on 01.04.2024	28.236 million tonne as on 10/07/2023 (as per approved Mining plan)	26.85 million tonne as on 01/04/2025 (as per Annual return 2023-24)	
1f	General remarks of inspecting officer on geology, exploration etc.	The lease area is divided into three blocks namely North Block, Central block and South block for ease of reference. North Block: Iron ore bands are present as finger type branches of the major band extending in adjacent mining leases. The cumulative strike length of the ore bodies is around 1500 meters with width varies from 20 to 70m. These ore bands are laminated to biscuit type of ore. Lumps fines at the ratio of 30:70. The mining lease is explored extensively with 143 exploratory bore holes with 6047 meterage and 8 exploratory pits. Further 11 boreholes are proposed over 585 meterage during 24-25, 25-26. Most part of the area under G2/G3 and unexplored area are under no mining zone as per order of SC dated 21.03.2018. Hence, lessee has not proposed any activity in the no mining zone area.		

2. Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	South Block E/W – 665998 - 666475 N/s – 1661553 - 1661921	South Block E/W – 666002 - 666475 N/s – 1661553 - 1661906	Working carried out within the proposed grid intervals.
2b	Separate benches in topsoil, overburden and mineral	Separate benches in overburden and	There are no separate benches	Working Benches during the year is

	(Rule 15)	mineral is proposed	for Ore and waste	– 09. Every bench has Ore and waste.
2c	Stripping ratio or ore to OB ratio in m3	1:0.006 Ore- 1709700 T OB-11651T	1:0.007 Ore- 1707160 T OB-13405T	
2d	Quantity of topsoil generation in m3	104	104	Proposed quantity as per the previous Mining Plan and same is extracted during the months April-2023 to June-2023.
2e	Quantity of overburden generation in m3	6473 m3 (11651 Tons)	7447m3 (13405 Tons)	As reported by lessee team, clay band width is little wider than the expected width, so slight variation occurred
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The deposit under mining is of stratiform reef type regular deposit with inclined dipping and the working has been proposed in single open pit suitable to the type of the deposit. During the inspection, it was observed that the iron ore formations/strata in the top benches, where narrow working benches have been proposed, are not compact or hard, hence, vide letter dated 22/01/2025 it was advised to strictly adhere to the precautions and recommendations outlined in the NITK, Surathkal Slope Stability Report and the conditions specified in the aforementioned DGMS approval letter to prevent any potential slope failures in the proposed narrow bench working area.		

3. Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single working pit in South block is proposed	Single working pit in South block	As per proposal.
3b	Quantity of ROM mineral production proposed	1709700 Tons	1707160 Tons	Proposed production nearly achieved.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	As per proposal.
3d	Quantity of mineral reject generation	No proposal	NIL	
3e	Grade of mineral reject 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 / Mechanized	Mechanized method	Mechanized	Mobile crusher -2

	method adopted for segregating from ROM	proposed for segregating from ROM	method adopted for segregating from ROM	with capacity of 150 T/Hr and 200 T/Hr. Mobile screens-3 with 200T/hr are used for segregating the ROM
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	--	--
3j	Provision of drilling & blasting in mineral benches	MS delay detonators & cord relays will be utilized.	MS delay detonators & cord relays are utilized for better fragmentation & control of vibration.	As per the proposal.
3k	Provision of mining machineries in mineral benches	Excavators, Wheel loaders, Volvo Dumpers, Drill machine, Compressor, Mobile Crushers & Screens	Excavators, Wheel loaders, Volvo Dumpers, Drill machine, Compressor, Mobile Crushers & Screens	As per proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 8 mtr & Width is 4 mtr.	Bench parameters are maintained accordingly.	Yes, Suitable.
3m	Total area covered under excavation/pits	26.82 Ha	26.80 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.006 Ore- 1709700 T OB-11651T	1:0.007 Ore- 1707160 T OB-13405T	
3o	Total area put in use under different heads at the end of year	Mining-26.82Ha Waste Dump-3.37Ha Infrastructure-0.32Ha Roads-1.59Ha Safety zone – 3.78 Ha Mineral Storage-0.73Ha Total-36.61 Ha	Mining-26.80Ha Waste Dump-3.37Ha Infrastructure-0.32Ha Roads-1.59Ha Safety zone – 3.78 Ha Mineral Storage-0.73Ha Total-36.59 Ha	As per AR:2023-2024 submitted.
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 12,60,000 2020-21: 12,60,000 2021-22: 15,63,220 2022-23: 17,09,784 2023-24: 17,09,700 (in tonnes)	2019-20: 12,58,145 2020-21: 12,58,145 2021-22: 15,62,120 2022-23:	

			17,09,120 2023-24: 17,07,016 (in tonnes)	
3q	General remarks of inspecting officer on method of mining etc.	Mine is developed as single open pit measuring 796 x 319 x 128 mtrs suitable to the type of the deposit. During the plan period 9 working benches are proposed with narrow bench working as per plan approved. Winning of ore is carried out by excavator-tippers combination with deephole drilling and blasting. Size wise segregation of ore is carried out mechanically by crushing and screening.		

4. Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB	Dumping is done as per approved mining plan.	Generated top soil is utilized mainly for nursery plants and afforestation, avenue plantation purpose.
4b	Location of topsoil, OB & mineral reject dumps	Overburden dumping to be done in North block as a Temporary dumping.	OB is dumped in the area allotted for, in North block as a temporary dumping.	As per proposal.
4c	Number of dumps within lease area and outside lease area	5	5 All the dumps located within the lease	2- dumps have already been stabilized, 1 – dead dump, Active and Alive dump -2.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dump Lateral E 666007 – 666061 N. 1662593 – 1662643	Waste dump Lateral E. 666007 – 666061 N. 1662593 – 1662640	As per proposal.
4e	Number of active & alive dumps	2	Active and Alive: 2	
4f	Number of dead dumps	1	1	
4g	Number of dumps stabilized	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	NIL	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	NIL	
4j	Number of settling ponds	No Proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management.	The waste dumps are satisfactorily managed with all engineering measures in place for stability and safety. During the year there are no proposals of Retaining wall and Garland		

		drain . However they have been constructed in the past which are maintained.
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5. Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	NIL	Since the Mineral persists at depth, no part of the mining pit is matured for backfilling.
5b	Area under backfilling of mined out area	No proposal	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)			Generated top soil is utilized mainly for plantation purpose.
5d	Total area fully reclaimed & rehabilitated	No proposal	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral exists in the pit, no part of the Mine pit is fully matured for backfilling and no proposals for the same.		

6. Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Submitted	Annual report on PMCP is submitted along with the Annual return on 27.06.2024 for the year 2023-24.	
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	Within lease: 780 Outside lease: 320	
6e	Cumulative no. of plants	No proposal	Within lease: 37560 Outside lease: 29458	Safety zone plantation and avenue plantation done.
6f	Any other specific method of rehabilitation	No proposal	NIL	
6g	Cost incurred on watch & care during the year	No proposal	41,87,962	As reported by lessee team the cost is incurred towards Fire line & Fire watchers
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No proposal	NIL	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the 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 rehabilitated (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 & 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 through Mineral Engineering Services, Ballari, an MOEF recognized Laboratory.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	All the proposed PMCP activities are satisfactorily carried out.		

7. Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes, Grade wise sorting of ROM within the lease area	Dry crushing & screening for size separation is done.	Lumps and fines of different grade segregated within the lease
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical method with Crushers and Screening plants	Mechanical method with Mobile Crushers and Screening plants	Mobile crusher -2 with capacity of 150 T/Hr and 200 T/Hr. Mobile screens-3 with 200T/Hr are used for segregating the ROM
7c	Different grade of mineral sorted out at	Lumps and fines	Lumps & Fines of different	

	mines		grades Fe 45-51% Fe 51-55% Fe 55-58% Fe 58-60% Fe 60-62% Fe 62-65%	
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 utilized.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine is having all the grades of ore from 35% Fe to 65% Fe which are suitably blended to marketable grade thereby utilizing the entire ore mined and mineral conservation aspect is taken care. During the inspection, lessee shown the drill cores containing magnetite ore which earlier reported as BHQ. Lessee is planning to take-up beneficiation study for magnetite ore.		

8. Environment

S.N	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Generation of 104 CuM	104 CuM of Top Soil generated and has been utilized.	Generated Top soil during the month April-2023 to June-2023 has been utilized in Safety zone, nursery & Avenue road for plantation purpose.
8b	Concurrent use or storage of topsoil			
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden is planned.	OB is dumped in North block and northwest part of south block of lease area.	Dumped at proposed locations
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	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)		Within lease area: 37560	

8g	Survival rate	80%	85%	Appears to be correct.
8h	Water sprinkling on roads to control airborne dust		5 Water Tankers for dust suppression system is used.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around the mines is satisfactorily managed by way of green belt plantation. Further the aesthetic beauty is good owing to existing thick natural forests surrounding the mine.		

9. Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return Submitted up to August-2024. Annual Return Submitted up to the year April-2023 to March-2024.		
S.No.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Naresh Kakumanu-Mining Engineer, Pramod S. Ritti - Geologist, Siriki Satyanarayana - Mines Manager.	The reported officials were present on the day of inspection.	P. Sreenivasa Rao, GM-mines was also present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining- 26.80 Ha Waste Dump-3.37 Ha Infrastructure- 0.32 Ha Roads- 1.59 Ha Safety Zone- 3.78 Ha Mineral Storage- 0.73 Total- 36.59 Ha	In Order.	
9d	Scrutiny of Annual return on afforestation	During the Year 780 Within lease - 37560 Outside lease - 29458	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation	NIL		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: Nil Graded ore (in Tons): LUMPS 45-51%-709000.93 51-55% - 6010.0 55-58% - 181.16	Appears to be correct.	

		58-60% - 283.05 60-62% - 381.00 62-65%- 20705.76 FINES 45-51%-137428.44 51-55% - 150.260 55-58% - 19583.01 58-60% - 238.310 60-62% - 725.02 62-65% - 72164.92		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: 416,74,85,230.26Rs, Ex. Mine price: Rs/Ton, LUMPS 45-51% - 860 51-55% - 1937 55-58% - 2581 58-60% - 3708 60-62% - 3963 62-65% - 4249 FINES 45-51% - 799 51-55% - 1725 55-58% - 2516 58-60% - 3140 60-62% - 3746 62-65% -4847 Production cost: 1593.73	Appears to be correct	
9i	Scrutiny of Annual return on fixed assets	Value of fixed assets Rs 17,38,250	In Order.	
9k	Scrutiny of Annual return on mining machineries		The reported machineries were found deployed on the day of inspection.	

Details of violations observed during current inspection and compliance position of violation pointed out					
<u>Violation observed</u>			<u>Show cause position</u>		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
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(डॉ. सुरेश प्रसाद / Dr. Suresh Prasad)
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines