

**MCDR INSPECTION REPORT (2022-23)****KALLAHALLI IRON ORE MINE OF H.N.PREM KUMAR ML NO.2538.**

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine Date of Inspection Name of Inspecting Officers	Kallahalli Iron Ore Mine (ML No. 2538) 27/12/2023 Dr. Sudhakara T.L (Senior Mining Geologist )
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land 19.29 Ha.
3	Minecode	30KAR03157
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/217/2011
5	Name of the lessee, Address, phone, email and fax number	H.N. Prem Kumar No.35,3 <sup>rd</sup> Cross, 3 <sup>rd</sup> Main, RMV 2 <sup>nd</sup> Stage HIG Colony, Bangalore Mobile No. 9901922369, Email-hnp2538@gmail.com
6	Village	Kallahalli
7	Taluk/Mandal	Hospet
8	District	Vijayanagara
9	Pin code	583201
10	State	Karnataka
11	Post office	Hospet
12	Nearest police station	Hospet
13	Nearest Railway station	Hospet
14	Date of Grant of Mining Lease	28/02/2007
15	Date of Execution	01/03/2007
16	Date of opening of Mine	01/03/2007
17	Date of first Renewal, if applicable and its period & expiry	NIL
18	Date of second Renewal, if applicable and its period & expiry	NIL
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NIL
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NIL
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	H.P.Amarnath No.35,3 <sup>rd</sup> Cross, 3 <sup>rd</sup> Main, RMV 2 <sup>nd</sup> Stage HIG Colony, Bangalore Mobile No. 9901922369, Email-hnp2538@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Bharathi Dasan Mines manager Yashodha elite 9th ward, Panduranga colony,

I/34686/2024

		Anathasheyanagudi Hospet - 583201 Vijayanagara - Dist Mobile no. 8073979165
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Manikanta BE.Mining Yashodha elite 9th ward, Panduranga colony, Anathasheyanagudi Hospet - 583201 Vijayanagara - Dist Date of appointment 01.02.2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	P Pavan Kumar (Whole Time Geologist) Appointed on 17.10.2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five- year period and specific condition in approval letter, if any.	Mining plan approved vide No 279/577/97/BNG,Dated 10/08/2007.
26	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Review and updation of Mining Plan Letter No.279/577/97/BNG-701 Dated 13.05.2022
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	27.12.2023
32	Name of accompanying mine officials with designation	SHASHEEL PAKALE, BHARATHI DASAN,

### 1. Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	6 no. of trial pits	6 no. of trial pits	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	G-1 : 12.46Ha G-2 : 3.82Ha	Out of 19.29Ha, lessee has explored 12.26Ha under G1 level, 3.84Ha under G2

I/34686/2024

				level and remaining 2.99Ha is non-mineralized area.
1e	Balance reserves as on 01.04.2023	2.173million tonnes	2.153 million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Iron ore formation is of bedded stratified formation with regular habit. Iron ore deposit of the mine consists of Hematitic iron ore, Hematitic silicious ore and small quantity of float ore. During the year 2023-24 there are proposals of 8 nos. of bore holes to bring to G2 area into G1 area.		

## 2. Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit-1 N1683595- N1683660 E 652745- E 652833 and Pit-3 N1683603- N1683750 E 652907- E 653046	Development done within proposed extent in Pit1 and Pit3.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate Benches in Overburden and mineral	Separate Benches in Overburden and mineral	
2c	Stripping ratio or ore to OB ratio	1:0.39 Ore: 117823tonnes OB: 46793 tonnes	1:0.89 Ore : 40,000 tonnes OB : 35,937 tonnes	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	25996 m3	19965 m3	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	With reference to the ore production, lessee has developed more than the proposal. The proposed ore to OB ratio was 1:0.39 and achieved is 1:0.89. The ongoing development is observed to be suitable for the type of deposit.		

## 3. Exploitation

S.N.	Item	Proposals	Actual work	Remarks
	Number of pits proposed for	Pit-1 and Pit-3	Pit-1 and Pit-3	Production

I/34686/2024

3a	production			carried out in the proposed pits.
3b	Quantity of ROM mineral production proposed	117823Tonnes	40000 Tonnes	Only 40% of proposed production of ROM is achieved during the year. Further, for the year 2023-24 proposed production of ROM is not yet commenced. Hence, violation pointed out under Rule 11(1) of MCDR, 2017.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	None	
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 / Mechanised method adopted for segregating from ROM	Mechanized method adopted	Mechanized method adopted	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Beneficiation proposed	No Beneficiation proposed	Crushing and screening adopted as per proposal
3j	Provision of drilling & blasting in mineral benches	Atlas Copco XAH 210 Compressor & Wagon drill Dia – 115 mm	Atlas Copco XAH 210 Compressor & Wagon drill Dia – 115 mm	
3k	Provision of mining machineries in mineral benches	Excavator With Tipper combination	Excavator With Tipper combination	
3l	Whether height of benches in	7 Mtrs height	Proposed height	

I/34686/2024

	overburden and mineral suitable for method of mining proposed in MP/SOM	8 Mtrs Width	and width nearly maintained.	
3m	Total area covered under excavation/pits	Total area under excavation 5.70 Ha	Total area under excavation 5.70 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.39	1:0.89	Achieved Ore : 40,000 tonnes OB : 35,937 tonnes
3o	Total area put in use under different heads at the end of year	Total area mining put in use: 5.70 Ha Overburden dumps 3.6 Ha Mineral storage 0.86 Ha Roads 0.74 Ha Infrastructure 0.03 Ha Crusher & Screening 0.3 Ha Green belt 1.150 Ha Overlap 3.15 Ha Undisturbed 3.72 Ha	Total area mining put in use. 5.70 Ha Overburden dumps 3.6 Ha Mineral storage 0.70 Ha Roads 0.30 Ha Infrastructure 0.03 Ha Crusher & Screening 0.3 Ha Green belt 1.150Ha Barran land 0.5 Ha Overlap 3.15 Ha Undisturbed 3.72 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 117824 2019-20: 117824 2020-21: 117824 2021-22 : 117824 2022-23 : 117823 ( intonnes)	2018-19: 117824 2019-20:117824 2020-21: 85000 2021-22: 50000 2022-23 : 40000 (in tonnes)	As per Annual returns submitted.
3q	General remarks of inspecting officer on method of mining etc.	The mine is operated by open-pit mining, which is fully mechanized and utilizes an excavator and tipper combination. This method is observed to be suitable for the type of deposit. However, only 40% of proposed production of ROM is achieved during the year 2022-23. Further, for the year 2023-24 proposed production of ROM is not yet commenced. Hence, violation pointed out under Rule 11(1) of		

## 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 for OB proposed at N1683586-N1683693 E652810-652965	Separate Dumping for OB carried out at proposed location.	
4b	Location of topsoil, OB & mineral reject dumps	OB dump is at North west of the lease area	North west of the lease area	
4c	Number of dumps within lease area and outside lease area	Active dump -1 in active dump -1	Active dump -1 in active dump -1	Dumps outside lease area 'nil'
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Part of the sump is within UPL	Part of the sump is within UPL	
4e	Number of active & alive dumps	Active dump -1	Active dump -1	
4f	Number of dead dumps	Dead Dumps -1	Dead Dumps-1	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining Wall and Garland Drain Constructed all along Dumps	Retaining Wall and Garland Drain Constructed all along Dumps	
4i	Length of Retaining wall or garland drain all along dump	R/W 110 Mtrs G/D 234 Mtrs	Proposed Retaining wall and Garland drain not constructed.	Proposed Retaining wall and Garland drain not constructed. Violation pointed out under Rule 11(1) of MCDR, 2017
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management.	Lessee has not taken any initiation to construct the proposed Toe wall and Garland drain for the toe of the TD-1 active dump, hence, violation pointed out under Rule 11(1) of MCDR, 2017.		

## 5. Solid Waste Management-Backfilling

I/34686/2024

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	
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)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The ore is not exhausted in the pit and not matured for backfilling.		

## 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.	YES	Annual Report on PMCP Submitted 07.07.2023	
6b	Area available for rehabilitation (ha)	NIL	NIL	
6c	Afforestation done (ha)	0.24 Ha	0.24 Ha	Safety zone area
6d	No. of saplings planted during the year	1500 Nos	2000 Nos.	
6e	Cumulative no. of plants	No proposal	14000 Nos.	Figures as reported by lessee team during inspection.
6f	Any other specific method of rehabilitation	No proposal	NIL	
6g	Cost incurred on watch & care during the year	No proposal	Rs.4,60,000	
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	No proposal	NIL	The ore is not exhausted in the pit

I/34686/2024

	by waste/tailings			and not matured for backfilling.
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)	Yes	Environmental monitoring (core zone & buffer zone)	Environment Monitoring Carried out by MSV Analytical Laboratories Ballari
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Except toe wall and garland construction, PMCP compliance and progressive closure operations are being satisfactorily carried out in the mine.		

## 7. Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
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I/34686/2024

7a	ROM Mineral dispatch or grade-wise sorting within lease area	117823 MT	40000 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	By Mechanical Method of Sorting	By Mechanical Method of Sorting	
7c	Different grade of mineral sorted out at mines	Lumps & Fines	<b>Lumps (in tonnes)</b> 45% to below 51% Fe : 0 51% to below 55% Fe :2000 55% to below 58% Fe: 14000 <b>Fines (in tonnes)</b> 45% to below 51% Fe :4000 51% to below 55% Fe :4000 55% to below 58% Fe: 19000	Actual figures as per Annual Return
7d	Any beneficiation process at mines	No proposal	Crushing and screening carried out at mine site as per proposal	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade-wise sorting is done at mine site by crushing and screening process. Lessee is utilizing all low grade ore, thereby taking care of mineral conservation.		

## 8. Environment

S.N.	Item	Proposals	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)	YES	YES	Waste and mineral stocks maintained at earmarked locations.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining	No proposal	NIL	

I/34686/2024

	operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal	3500	
8g	Survival rate	70 %	70 %	
8h	Water sprinkling on roads to control airborne dust	YES	Water Tankers are used to control airborne Dust on roads.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is good. The mine area is surrounded by natural forest.		

### 9. Compliance of Rule 45

S.N .	Item	Proposals	Actual work	
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2023 A.R. Submitted up to Year 2022-23	Submitted within stipulated time	
S.N .	Item	Proposals	Actual work	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer – 1 Geologist – 1 Mines Manager - 1	Appears to be correct	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining: 5.7Ha Waste disposal area: 3.6ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	3500 saplings planted during the year	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock : 36000 tonnes <b>Lumps</b> Fe 45 to below 51%: 4000 tonnes Fe 51 to below 55% : 2000 tonnes Fe 55 to below 58% : 0.030 tonnes	Appears to be correct	

I/34686/2024

		<b>Fines</b> Fe 45 to below 51%: 0.06 tonnes Fe 51 to below 55% : 0 tonnes Fe 55 to below 58% : 2001 tonnes		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price <b>Lumps</b> Fe 45 to below 51%: Rs. 650/- Fe 51 to below 55% : Rs. 3695.83 Fe 55 to below 58% : Rs. 4477 <b>Fines</b> Fe 45 to below 51%: Rs. 700.83 Fe 51 to below 55% : Rs. 1341 Fe 55 to below 58% : Rs. 3009  Cost of Production : Rs. 2263.76	Appears to be correct	
9i	Scrutiny of Annual return on fixed assets	Rs. 36759759	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	Back Hoe: 3 Wheel Loader: 2 Tipper : 01 Water Tanker: 1 Crusher : 01	Appears to be correct	

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

Violation observed			Showcause position	
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on
11(1)	8/1/2024	14/2/2024		

(Dr. Sudhakara T.L.)  
Senior Mining Geologist