

**INDIAN BUREAU OF MINES**  
**MINERALS DEVELOPMENT AND REGULATION DIVISION**  
**BANGALORE REGIONAL OFFICE**

**MCDR INSPECTION REPORT**

Sl. No.	Particulars	Details
1	Name of the Mine	Doddabyaladakere Iron Ore Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest : 60.92 Ha. Forest land: NA
3	Minecode	30KAR533001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/45090/2022
5	Name of the lessee, Address, phone, email and fax number	<b>Smt B.L Rani Samyuktha</b> # 52, Huda office Lane, 2 <sup>nd</sup> cross, Shanthi Nagar, college Road, Hospet, Vijayanagar-583 201. Mail id: samyuktha.sri99@gmail.com
6	Village	Doddabyaladakere.
7	Taluk/Mandal	Hosadurga.
8	District	Chitradurga
9	Pincode	577533
10	State	Karnataka.
11	Post office	Chikkabyaladakere
12	Nearest police station	Sri Rampura
13	Nearest Railway station	50 Km
14	Date of Grant of Mining Lease	01.08.2023
15	Date of Execution	21.09.2023
16	Date of opening of Mine	19.12.2023
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	Period: 50 years 20.09.2073
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	Mr. Prakash.Y Post: Huliyaar, Hosadurga-tq Tumkur-dist, Karnataka-state. 9449690482. Date of appointment: 15.12.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Prakash.Y AMIE(Mining Engineering) Total Experience: 25 years Date of appointment: 15.12.2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 &	Mr. Abhay Satyappanavar M.sc (applied Geology) Total Experience: 26 years.

	44.	
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approved Mining Plan Date of Approval: 16.06.2023 From: 16.06.2023 to: 31.03.2028
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining(Open cast, Underground)	Open cast.
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized.
30	Captive/ Non captive	Non-captive.
31	Date of inspection	06/06/2024
32	Name of accompanying mine officials with designation	Sri. Prakash Y, Mines Manger Shri Abhay S, Geologist

### 1. Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 no. of core boreholes with a total meterage of 500m.	13 no. of DTH boreholes with a total meterage of 808m Trenches – 10 nos. and Trial pits 28 nos.	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	As per approved Mining plan G1 level: 10.24Ha 50.68Ha non-mineralized	As per Draft modification to the approved mining plan which is under process for approval G1 level: 22.55Ha G2 level: 16.67Ha Area to be explored : 16.48Ha Area a proved as non-mineralized : 5.22Ha
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Smt. B.L Rani Samyuktha	Rs.13,40,324.00	As reported by mine management during inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on <u>01.04.2023</u>	As per approved Mining plan 3264018.57 tonne	3122516.57 tonne	The Mn and CaO values of reported Managnese ore zone and limestone zones respectively in the Mining plan consists of values below threshold value.

				Further, these minerals not included in the lease deed and Block summary during auction. Hence, reserves of Dolomite, Limestone and Manganese are not provided.
1f	General remarks of inspecting officer on geology, exploration etc.	Iron ore band is located at eastern part of the lease area and western part of the lease are predominantly consist of Manganiferrous clay, carbonate bands. From the recent drilled exploration data observed that, major of the ore is of Hematitic silicious ore. In the Draft Mining plan document submitted, lessee has proposed additional drilling, the proposed drilling is sufficient to cover the mineralized area under G1 level.		

## 2. Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	South eastern part of the lease	South eastern part of the lease	Development carried out within the proposed location and extent.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top soil: Nil Overburden: 2 Mineral: 3	Overburden: 2 Mineral: 3	Separate benches maintained as per proposal
2c	Stripping ratio or ore to OB ratio	<b>1:0.54</b> Ore: 141998 tons Waste: 77071	<b>1:0.56</b> Ore: 141502 tons Waste: 80000 tons	Ore to OB ratio nearly maintained.
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	OB:38531.81 m3	OB:40000.00 m3	Apart from OB, in mining plan, it is proposed to handle ID1 dump 36172 m3 with 'nil' mineral recovery, in which lessee team reported that 45000 m3 handled during the year.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is an auctioned block, benches are not systematically maintained by erstwhile lessee. Current Lessee has done the Development systematically and progress of rectification of benches observed during the inspection.		

## 3. Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	141998.00 MT	141502.00 MT	Proposed production nearly achieved.
3c	Recovery of salable/usable	100%	100%	

	mineral from ROM production			
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 / Mechanised method adopted for segregating from ROM	Mechanized method with crushing and screening	Mechanized method with crushing and screening	Mechanized method lumps and fines of different grade iron ore segregated by crushing and screening method
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposal	Beneficiation study carried out (IBM, Bangalore)	Beneficiation of one iron ore sample (HIO) carried out at IBM, RODL Lab, Bangalore
3j	Provision of drilling & blasting in mineral benches	Yes	No	Proposed, however, there is no EC for drilling and blasting
3k	Provision of mining machineries in mineral benches	Excavator: 03 Dumper : 04 Wheel loader: 02	Excavator: 03 nos. Dumper: 06 nos. Wheel loader: 02 nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height & Width in ore & OB is 6m	Proposed height maintained.	Progress of rectification of benches irregularly developed by erstwhile lessee observed.
3m	Total area covered under excavation/pits	7.67 Ha	10.43 Ha	Violation pointed out under Rule 11(1) of MCDR, 2017 for area utilized more than proposal
3n	Ore to OB ratio for the pit/ mine during the year	<b>1:0.54</b> Ore: 141998 tons Waste: 77071	<b>1:0.56</b> Ore: 141502 tons Waste: 80000 tons	Ore to OB ratio nearly maintained.
3o	Total area put in use under different heads at the end of year	Area in Ha. i) Under mining: 7.67 ii) dumping : 5.43 iii) stock yard : 0.21	Area in Ha. i) under mining:10.43 ii)	Violation pointed out under Rule 11(1) of MCDR, 2017 for area

		iv) Mineral separation plant: 0.41 Ha v)Infrastructure : 0.39 Ha vi) Roads: 0.95 Ha	dumping:6.79Ha iii)under stock yard:8.28 Ha iv)Mineral separation plant: 0.41 Ha v)Infrastructure: 0.39 Ha vi) Roads:1.13 Ha	utilized more than proposal
3p	Production of ROM mineral during last five-year period, as applicable	2023-24: 141998.00 in tonnes	2023-24: 141502.00 in tonnes	In the instant case, 5 year production not applicable due to lease is Auctioned block, lessee started production from December 2023.
3q	General remarks of inspecting officer on method of mining etc.	Lessee has carried mining operation by mechanized method without drilling and blasting. For drilling and blasting EC yet to be obtained. Progress of rectification of benches irregularly developed by erstwhile lessee observed during the inspection. As per updated Surface Plan (as on 31/03/2024), it is observed that the total area under mining is 10.43 ha, under dumping is 6.79 ha, and under the stockyard is 8.28 ha which is exceeding the proposed area limit. Hence, violation pointed out under Rule 11(1) of MCDR, 2017.		

#### 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 proposed	Separate dumping of OB is provided.	
4b	Location of topsoil, OB & mineral reject dumps	Location of OB dump: N1512370-N1512959 E663806-E663905	Location of OB dump: N1512370-1512959 E662806 - E663905	There is no proposal for Top soil and Mineral Reject dump. Lessee has carried out the waste dumping at the earmarked location.
4c	Number of dumps within lease area and outside lease area	No. of Dump Within lease area: 06 (1 active & 5 inactive) Dump outside lease area: Nil	No. of Dump Within lease area: 06 (1 active & 5 inactive)	Part of old dumps ID-2, ID-3 and ID-5 are outside lease area which are done by erstwhile lessee.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Part of Old Inactive dumps ID-1, ID-2, ID-3 and ID-5 are within UPL	Part of Old Inactive dumps ID-1, ID-2, ID-3 and ID-5 are within UPL	Dumps within UPL are done during erstwhile lessee period.

4e	Number of active & alive dumps	No. of active & alive Dump: 01	No. of active & alive dump: 01 (AD-1)	
4f	Number of dead dumps	05	05	5 dumps are inactive, done during erstwhile lessee period.
4g	Number of dumps stabilized	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall proposed	Lessee has constructed the Retaining wall for the existing dumps as per R & R plan.	
4i	Length of Retaining wall or garland drain all along dump	Length of Retaining wall: 608 mt Garland drain: 153 mt	Length of Retaining wall: 557 mt Garland drain: Nil	Lessee has commenced operation in December 2023, construction work is under progress.
4j	Number of settling ponds	No proposal	Nil	Two check dams constructed
4k	Specific comments of inspecting officer on waste dump management.	Lessee has constructed retaining wall all along the toe of the inactive dumps as per R & R plan. Retaining wall for the active dump is nearly completed as proposed, garland drain work is under progress.		

### 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	Mineral exists in the pit and 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 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	At present, mineral exists in the mining pit and pit is not matured for backfilling. Further, as per draft Mining plan document submitted, lessee has re-assessed the Reserves as per threshold value notification and HSIO exists further 30-50m beneath from the existing pit level.		

### 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.	Nil	Not submitted till the day of inspection.	Due date for submission for annual report of PMCP is 30/06/2024.

6b	Area available for rehabilitation (ha)	Nil	Nil	
6c	Afforestation done (ha)	0.49	0.49	
6d	No. of saplings planted during the year	1000	1000	Plantation mainly carried out in the safety zone area.
6e	Cumulative no. of plants	0.0	0.0	
6f	Any other specific method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch & care during the year	Nil	Rs. 80,000	As reported by lessee team during the inspection.
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)	Compliance of Environmental monitoring (core	Environmental monitoring (core zone & buffer	

		Zone & Buffer zone)	zone) carried out on regular basis.	
6q	General remarks of inspecting officer on PMCP compliance & Progressive closure operations	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 noise level are within permissible limit.		

### 7. Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area	Grade-wise & size was sorting done within the lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical by crushing & screening method.	
7c	Different grade of mineral sorted out at mines	Grade of from: 45% Fe to 55% Fe of Lumps & Fines is sorted.	Following size & grade of iron ore sorted during the year <b>Lumps</b> Fe 45-51% Fe 51-55% Fe 58-60% <b>Fines</b> Fe 45-51% Fe 51-55%	
7d	Any beneficiation process at mines	No proposal	No beneficiation at mine site. Crushing & Screening carried out at mine site as per proposal.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	At present lessee is dispatching the different size graded ore to Beneficiation plant & Steel plants. As per the draft Mining plan document submitted, major part of reserves is of silicious iron ore essentially low-grade ore. Beneficiation of this ore may increase the grade of the ore subject to feasibility of the process.		

### 8. Environment

S.N	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its	Nil	Nil	



	original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)			
8g	Survival rate			
8h	Water sprinkling on roads to control airborne dust	Water tanker proposed	Water tanker with sprinkling used to control the airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mine lease area sounded by thin bushy plants. Aesthetic beauty in and around mines area is good.		
<b>9. Compliance of Rule 45</b>				
S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns of December 2023 has been submitted on 11 <sup>th</sup> January 2024. Two days delay from the due date of submission. Annual Return of 2023-24 yet to be submitted		Showcause Notice issued under Rule 45(7) of MCDR, 2017 issued for late submission of monthly returns of December 2023.
S.N	Item	Details GIVEN in A.R.	Observation of I/ Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Annual Return of 2023-24 yet to be submitted	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Annual Return of 2023-24 yet to be submitted	
9d	Scrutiny of Annual return on afforestation		Annual Return of 2023-24 yet to be submitted	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		Annual Return of 2023-24 yet to be submitted	
9f	Scrutiny of Annual return on ROM stock		Annual Return of 2023-24 yet to be	

	and/or graded ore		submitted	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Annual Return of 2023-24 yet to be submitted	
9i	Scrutiny of Annual return on fixed assets		Annual Return of 2023-24 yet to be submitted	
9k	Scrutiny of Annual return on mining machineries		Annual Return of 2023-24 yet to be submitted	

**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
11(1) of MCDR	13/06/2024	05/07/2024	45(7) of MCDR	13/06/2024	05/07/2024

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