

MCDR INSPECTION REPORT

S. N.	Particulars	Details
1	Name of the Mine	Thimmappanagudi Ore Mine, ML No2549
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Area – 46.20 ha Forest
3	Minecode	30KAR03125
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/13651/2012
5	Name of the lessee, Address, phone, email and fax number	Shri H.G. Rangan Goud
6	Village	Muraripura
7	Taluk/Mandal	Sandur
8	District	Ballari
9	Pincode	583 119
10	State	Karnataka
11	Post office	Sandur
12	Nearest police station	Sandur
13	Nearest Railway station	Toranagallu
14	Date of Grant of Mining Lease	05/08/92
15	Date of Execution	05/08/92
16	Date of opening of Mine	10.12.2007
17	Date of first Renewal, if applicable and its period & expiry	14.05.2007
18	Date of second Renewal, if applicable and its period & expiry	Not applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not applicable
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not applicable
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	A.Sreekantha Reddy, Mining Engineer & Manager K.Santhosh Reddy, Geologist
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	A.Sreekantha Reddy, Mining Engineer
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	K.Santhosh Reddy, Geologist
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	25.02.22

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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	19.01.24
32	Name of accompanying mine officials with designation	A.Sreekantha Reddy, Mining Engineer K.Santhosh Reddy, Geologist

Exploration

S. N.	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 RC/Core boreholes(40m) 7 Trial pits(3mx3mx3 mx) for the year 2022-23	Nil	The Renewal of FC is under process. The mine was not in operations since 04.08.22.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G1- 11.57 Ha G2- NIL G3- Nil G4- 24.93 Ha	Only FC granted area has been considered.
1e	Balance reserves as on <u>01.04.2023</u>	-	-	Reserves of Iron ore as on 1.4.2023: 2298352 t
1f	General remarks of	The FC expired on 04.08.2022, since then the		

	inspecting officer on geology, exploration etc.	mine is not operation. It is reported that the renewal of FC is under processing. Hence, no violation has been issued.
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Development

S.N	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E 665029 to E 665187 N 1675494 to 1675258	The development carried out as proposed upto 3.8.2022.	The mine operations stopped on 04.8.2022 due to expiry of FC.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	yes	yes	-
2c	Stripping ratio or ore to OB ratio	1:1.54 (tonnes)	1: 1.56 (tonnes)	Iron ore : Ore:33696t Waste: 52656t
2d	Quantity of topsoil generation in m ³	No proposal	Nil	No top soil generated.
2e	Quantity of overburden generation in m ³	67235m ³	20252m ³	Iron ore : Ore:33696t Waste: 52656t
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development of pit has not been carried out as proposed due to expiry of FC. The violation has not been pointed out.		

Exploitation

S. N.	Item	Proposals	Actual work	Remarks
3a	Number of pits	1Pit	One pit	-

	proposed for production			
3b	Quantity of ROM mineral production proposed	114000t	33696t	The less production due to mine was not in operation for the entire year -
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	Nil	NIL	-
3e	Grade of mineral reject generation and threshold value declared	Nil	NIL	-
3f	Quantity of sub-grade mineral generation	Nil	NIL	-
3g	Grade of sub-grade mineral generation	Nil	NIL	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method for segregation	Mechanised method for segregation	Dry Crushing and Screening 200 TPH
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such beneficiation study carried out	-
3j	Provision of drilling & blasting in mineral benches	Provision of Drilling and Blasting is proposed for mineral benches.	Drilling and Blasting has been carried out for production purpose.	-
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed-	Machinery deployed: Excavators- 3	-

		Excavators- 3 Tippers- 3 Drill-2 Wheel loader-2 Water tanker-2(8000lts) Crusher-1(200 TH)	Tippers- 3 Drill-2 Wheel loader-2 Water tanker-2(8000lts) Crusher-1(200 TH)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height-6m Bench Width->6m	Bench Height-6m Bench Width->6m	-
3m	Total area covered under excavation/pits	6.30 Ha (At the end of the plan period)	6.30Ha	-
3n	Ore to OB ratio for the pit/mine during the year	1:1.54 (tonnes)	1: 1.56 (tonnes)	Iron ore : Ore:33696t Waste: 52656t
3o	Total area put in use under different heads at the end of year	Mine Working-5.03 Ha Dumping -1.49ha Roads -0.6ha Infrastructure-0.03ha Mineral storage-1.11 Ha Others-0.10Ha	Mine Working-4.89 Ha Dumping -1.47ha Infrastructure-0.77ha Mineral storage-1.210 Ha	-.
3p	Production of ROM mineral during last five-year period, as applicable	2018-19 : 114000t 2019-20 : 114000t 2020-21: 114000t 2021-22 : 113770t 2022-23 : 114000t	2018-19 : 114000t 2019-20 : 114000t 2020-21: 114000t 2021-22 : 111550t 2022-23 : 33696 t	

3q	General remarks of inspecting officer on method of mining etc.	There is no change in method of mining. The less production due to mine was not in operation for the entire year. The mine operations stopped on 04.8.2022 due to expiry of FC.	

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 Overburden is proposed.	Separate Dumping of Overburden is carried out.	-
4b	Location of topsoil, OB & mineral reject dumps	OB dump proposed in western and Northwestern side of mining lease area.	Overburden Dumping carried out in western and Northwestern side of mining lease area.	-
4c	Number of dumps within lease area and outside lease area	Within Lease Area- 1 Outside lease- NIL	Within Lease Area- 1 Outside lease- NIL	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-
4e	Number of active & alive dumps	one	one	-
4f	Number of dead dumps	nil	nil	
4g	Number of dumps stabilized	NIL	NIL	-
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall & Garland drain proposed.	Retaining wall & Garland drain constructed.	-
4i	Length of Retaining wall or garland drain all along dump	25m Retaining wall & 25m Garland drain proposed.	28m Retaining wall & 29m Garland drain have been	-

			constructed.	
4j	Number of settling ponds	No proposal	Nil.	-
4k	Specific comments of inspecting officer on waste dump management.	There are no specific comments on waste dump management.		

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	-
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	No backfilling proposals for the year 2022-23.		

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.	To be submitted under rule 26(2) of MCDR, 2017 before 1 st July of every year.	Submitted on 20.06.23	-
6b	Area available for rehabilitation (ha)	nil	nil	-
6c	Afforestation done (ha)	0.21Ha	0.21ha	Plantation carried out

				in the dump area.
6d	No. of saplings planted during the year	525 saplings within the lease area	600saplings within the lease area.	Plantation carried out in the dump area
6e	Cumulative no. of plants	22525saplings	60515saplings within the lease area	-
6f	Any other specific method of rehabilitation	No proposal	Nil	-
6g	Cost incurred on watch & care during the year	Rs 1,05,000/-	Rs. 5,88,460/-	Towards watch and ward, watering & purchase of saplings
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	No proposal	Nil	-

	reclamation and rehabilitation by backfilling (v) Any other specific means			
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)	Environment monitoring is proposed for Core and Buffer Zone.	Environment monitoring is being carried out monthly in Core and Buffer Zone.	All the environmental parameters observed to be within the permissible limits.
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	There are no specific comments on PMCP.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	size wise sorting is proposed within lease area.	size wise sorting is done within lease area.	-

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical Sorting	Mechanical Sorting	Dry Crushing & Screening
7c	Different grade of mineral sorted out at mines	Grade wise sorting is proposed.	Grade wise sorting is done in lease area.	0-10mm fines and lumps, 10mm to 40mm.
7d	Any beneficiation process at mines	No proposal	nil	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There are no specific comments on Mineral Conservation and beneficiation issues.		

Environment

S. N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	No top soil generated. Most of the area is broken up.
8b	Concurrent use or storage of topsoil	No proposal	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for Overburden proposed.	Separate dumping of Overburden carried out.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	-
8e	Phased restoration,	No proposal	Nil	-

	reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	525 saplings within the lease area	600 saplings within the lease area.	Plantation carried out in the dump area.
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tankers are deployed to control the airborne dust on haul roads and screening plant.	2 nos. of water tanker each of 8000 liters capacity.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	There is no change in aesthetic beauty in and around mines.		
Compliance of Rule 45				
S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to December, 2023 A.R for the year 2022-23 submitted on 20.6.2023.		-
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	A.Sreekantha Reddy, Mining Engineer & Manager K.Santhosh	Appears to be correct.	-

	Manager	Reddy, Geologist		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine Working- 4.89 Ha Dumping - 1.47ha Infrastructure- 0.77ha Mineral storage- 1.210 Ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	600 saplings within the ML with 80% survival rate.	Appears to be correct	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S –nil Production of Iron ore - 33696t C/S –131 t	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production-Rs 4811.72/tonne. Av. Ex- mine price - Rs 0.00/tonne	Appears to be not correct	Violation pointed out.
9i	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs10334833/-	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Machinery deployed: Excavators- 3 Tippers- 3	Appears to be correct	-

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		Drill-2 Wheel loader-2 Water tanker- 2(8000lts) Crusher-1(200 TH))		
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Date :

(K. Srinivas)
Junior Mining Geologist
Indian bureau of Mines