MCDR INSPECTION REPORT (2023-24)

S. N.	Particulars	Details
1	Name of the Mine	S.M.Block Iron Ore Mine, M.L.No.2505
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	40.47 Ha. Forest Land
3	Mine code	30KAR03154
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/211/2011
5	Name of the lessee, Address, phone, email and fax number	M/s.M.Hanumantha Rao, H.No.37, W.No.17, Ground Floor, Main Road, Near Park, Patel Nagar, Ballari-583101, 08392260170, mhraomines@gmail.com & 08392260269
6	Village	Narayanapur
7	Taluk/Mandal	Sandur
8	District	Ballari
9	Pincode	583119
10	State	Karnataka
11	Post office	Devagiri
12	Nearest police station	Torangallu
13	Nearest Railway station	Torangallu
14	Date of Grant of Mining Lease	09-03-2005
15	Date of Execution	12-12-2005
16	Date of opening of Mine	15-05-2006
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
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	Shri. Arun Kumar Chirania, H.No.37, W.No.17, Ground Floor, Main Road, Near Park, Patel Nagar, Ballari-583101, 08392260170, mhraomines@gmail.com, 08392260269
21	Name of the Mine Agent with Address, phone, email, fax	Shri. Arun Kumar Chirania, H.No.37, W.No.17, Ground Floor, Main Road,

	number and date of appointment	Near Park, Patel Nagar, Ballari- 583101, 08392260170,
		mhraomines@gmail.com, 08392260269
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. K.Venkatasreedhar, H.No.37, W.No.17, Ground Floor, Main Road, Near Park, Patel Nagar, Ballari-583101, 9480400642, venkatasreedhark@gmail.com & DOA: 30-04-2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. M.V.Mahesh, B.Tech in Mining, H.No.37, W.No.17, Ground Floor, Main Road, Near Park, Patel Nagar, Ballari- 583101, 9481568072, maheshmv71@gmail.com& DOA: 03-10- 2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri. C.Nagabushana, MSC in Geology, H.No.37, W.No.17, Ground Floor, Main Road, Near Park, Patel Nagar, Ballari- 583101, & DOA: 03-10-2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	03-02-2021
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	01-06-2022
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	05-09-2024
32	Name of accompanying mine officials with designation	M.S.Raju – QP Consultant K.Venkatasreedhar – Mines Manager, M.V.Mahesh – Mining Engineer M.Ramesh - Geologist

Exploration

S.N	Item	Proposals	Actual	Remarks
•			work	
1a	Backlog of previous year	4 holes Proposed during the year 2022-23	4 holes drilled	Due to steep terrain not possible to undertake in the previous year plan period.
1b	Exploration over lease area for Geological axis 1 or 2.	G2 to G1		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Sree Krishna Borewells & Rs.275000.0	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Na	
1e	Balance reserves as on 31.03.2023	Nil	4979026 tonnes	As per Annual Return Submitted for the year 2023-24.
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease are per MEMC 202	-	G1 axis as

Development

S.N	Item	Proposals	Actual	Remarks
•			work	
2a	Location of development	Eastern pit	Eastern pit	No work
	w.r.t. lease area	N1657770 –	N1657840 –	carried out
		N1658275,	N1658275,	in the
		E680250 –	E680250 –	Western pit
		E680560 &	E680560	as per the
		Western pit		approved
		N1657750 –		MP, due to
		N1657950,		Eastern pit
		E680060 –		not

		E680340		exhausted for backfilling of western pit overburden . Since the
				rectificatio n proposals are in the proposed RUMP and the document is submitted with this reason and to comply
				with the modified approved R & R, so no violation issued.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches proposed in overburden and mineral	Same has been maintained by and large	
2c	Stripping ratio or ore to OB ratio	1:6.5	1:4.04	Due to change in working location to exhaust eastern pit to comply with R&R plan.
2d	Quantity of topsoil generation in m3	No Proposal	Nil	-do-
2e	Quantity of overburden generation in m3	733450	404724	in line with quantity

					indicated in
					the AR.
2f	General remarks	of	No work carrie	d out in the We	estern pit as
	inspecting officer	on	per the approve	ed MP, due to E	Eastern pit
	development of pit	w.r.t.	not exhausted f	or backfilling o	of western
	type of deposit etc.		pit overburden.	Since the recti	fication
			proposals are in	the proposed	RUMP and
			the document is	s submitted wit	h this reason
			and to comply	with the modifi	ed approved
			R & R.		

Exploitation

S.N	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2 pit proposed for production	1 pit for production	Due to change in working location to exhaust eastern pit to comply with R&R plan.
3b	Quantity of ROM mineral production proposed	226000 tonnes	214000 tonnes	
3c	Recovery of salable/usable mineral from ROM production	226000 tonnes	214000 tonnes	
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	Mechanised method proposed for segregating from ROM	As per proposals in the Approved MP	Dry Crushing & Screening, Capacity of plant is 140 TPH
3i	Any analysis or	No Proposal	Nil	Magnetitic ore

	beneficiation study proposed & carried out for sub-grade mineral and reject			beneficiation study carried out by CSIR- IMMT Bhubaneshwar in the past.
3j	Provision of drilling & blasting in mineral benches	Provision made for drilling & blasting in mineral benches.	As per proposed in the Approved MP	115 mm drilled Dia with 3mts spacing &2.5mts burden with 10mts depth. Nonel in conjunction with slurry explosive is used for blasting.
3k	Provision of mining machineries in mineral benches	Excavator & Tipper combination proposed.	As per proposed in the Approved MP	Machineries deployed Excavator: 09 Nos, Tippers: 16 Nos, Loaders: 03 Nos and water tankers: 02 Nos.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height of 10 mts and width 10 mts is proposed.	Maintained bench parameters by and large as proposed in the approved Mining Plan.	
3m	Total area covered under excavation/pits	11.98 Ha at the end of plan period.	12.22 Ha at the end of reporting year	Due to change in working location to exhaust eastern pit to comply with R&R plan.

3n	Ore to OB ratio for the	1:6.5	1:4.04	-do-
	pit/mine during the year			
30	Total area put in use	Area Under	Area Under	Nominal
	under different heads at	Mining:	Mining:	deviation due
	the end of year	11.98 Ha,	12.22 Ha,	to change in
		Over Burden	Over Burden	working
		Dumps:	Dumps:	location to
		12.43 Ha,	12.44Ha,	exhaust eastern
		Mineral	Mineral	pit to comply
		Storage:	Storage:	with R&R
		1.54Ha,	2.08Ha,	plan.
		Roads: 2.00	Roads: 2.27	
		Ha, Green	,	
		Belt: 2.14		
		Ha, Mineral	,	
		Separation	Separation	
		Plant: 0.50	Plant: 0.25	
		Ha, at the	Ha, at the	
		end of plan	end of	
		period.	reporting	
			year	
3p	Production of ROM	2019-20:	2019-20:	
	mineral during last five-	144000	143990	
	year period, as applicable	2020-21:	2020-21:	
		144000	143990	
		2021-22:	2021-22:	
		226000	156150	
		2022-23:	2022-23:	
		226000	201000	
		2023-24:	2023-24:	
		226000	214000	
2	C 1	(in tonnes)	(in tonnes)	- CEC l: '
3q	General remarks of		luction as per tl	
	inspecting officer on	nas deen achie	eved in almost a	an the years
	method of mining etc.			

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual	Remarks
•			work	
4a	Separate dumping of	Separate	Maintained	
	topsoil, OB & mineral	dumping of	as per	
	reject (Rule 32, 33)	OB	approved	

		proposed.	Mining Plan	
4b	Location of topsoil, OB & mineral reject dumps	Location of OB N1657780 to N1657980, E680415 to E680640	Location of OB N1657800 to N1658020, E680520 to E680715.	Nominal deviation due to change in working location to exhaust eastern pit to comply with R&R plan.
4c	Number of dumps within lease area and outside lease area	Within the lease area -5 Nos, Outside ML area:	As per the approved Mining Plan	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dumps proposed within the UPL.	As per the approved Mining Plan	
4e	Number of active & alive dumps	Active dumps – 1	Active dumps – 1	
4f	Number of dead dumps	Dead dumps- 4	Dead dumps- 4	Nil
4g	Number of dumps stabilized	2	2	Stabilized by coir matting & plantation.
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Retaining wall & garland drain done all along the dump.	
4i	Length of Retaining wall or garland drain all along dump	Nil	Retaining wall -150m & garland drain – 660m	As per CEC approved
4j	Number of settling ponds	No Proposal	Nil	
4k	Specific comments of inspecting officer on waste dump	Dump manag	ement is satisfa	ctory

management.	
management.	

Solid Waste Management-Backfilling

S.N	Item	Proposals	Actual	Remarks
•			work	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Part of Eastern pit	Not reached full depth	Due to change in working location to exhaust eastern pit to comply with R&R plan.
5b	Area under backfilling of mined out area	Temporary Backfilling in eastern pit	Not reached full depth	Due to change in working location to exhaust eastern pit to comply with R&R plan.
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	Temporary backfilling not carried out due to change in working location to exhaust eastern pit to comply with R&R plan.		

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.	Annual report on PMCP submitted on time and correctly.	Yes Submitted.	Date of submission 27-06-2024
6b	Area available for	No Proposal	Nil	

	rehabilitation (ha)			
6c	Afforestation done (ha)	Area of 0.15 Ha	0.20 Ha	
6d	No. of saplings planted during the year	300 Nos	787 Nos	Dump plantation
6e	Cumulative no. of plants	Total 30361 Nos	Total 30980 Nos	Plantation carried out with in ML area, overall survival rate of 57%.
6f	Any other specific method of rehabilitation	No Proposal	Nil	It is proposed reclaim & rehabilitate dumps after is maturity during the conceptual stage a total area of 40.47 Ha is proposed to be afforested as apart of reclamation.
6g	Cost incurred on watch & care during the year	Rs. 112000	Rs. 236100	
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	No Proposal	Nil	

	backfilling (iii) Afforestation on the backfilled area			
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	
61	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	
60	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	Nil	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	9 Air Monitoring stations (core zone 5 stations & buffer zone 4 stations), 9 Water sampling stations (Surface water sample 1 & Ground water 8 samples), 6 Noise Monitoring stations (core zone 1 stations & buffer zone 5 stations), 5 Soil sampling stations (core	Reports are received	

		zone 1station & buffer zone 4 stations)
6q	General remarks of inspecting officer on PMCP compliance &progressive closure operations	The compliance of proposed PMCP activities are found to be satisfactory and Monitoring of Environmental parameters are done regularly.

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7-	DOM M'1	C - 4' - 4		
7a	ROM Mineral	Sorting	As per	
	dispatch or grade-	within lease	approved	
	wise sorting	area	mining plan	
	within lease area		crushing,	
			screening	
			and sorting	
7b	Mothod of grade	Machanical	done. Mechanical	Dry cruching
/ 0	Method of grade- wise mineral	Mechanical	Mechanical	Dry crushing
				& Screening.
	sorting i.e. manual or mechanical			
7c	Different grade of	45%Fe -	45%Fe -	Nil
/ (mineral sorted out	51%Fe	51%Fe	1111
	at mines		51%Fe -	
	at illines	55%Fe	55%Fe	
			55%Fe -	
		58%Fe	58%Fe	
			58%Fe -	
		60%Fe	60%Fe	
			60%Fe -	
		62%Fe	62%Fe	
7d	Any beneficiation		No	Nil
	process at mines			
7e	General remarks	Mineral Cons	ervation is tak	en place in the
		mine satisfact		•
	officer on Mineral		-	
	conservation &			
	beneficiation			
	issues			
•	•	•		

Environment

S.	Item	Droposals	Actual work	Domarke
5. N.	Hem	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of	No Proposal	No top soil generated.	Nil
	topsoil (Rule 32)			
8b	Concurrent use or storage of topsoil	No Proposal	No top soil generated.	Nil
8c	Separate dumps		As per the	Nil
		dumping is proposed	proposal maintained	
	rejects and fines (Rule 33)	Frefrence		
8d		Not	Nil	Nil
	overburden, waste rock, rejects and	Proposed		
	fines dumps for			
	restoring the land to its original use			
8e	Phased	Not	Nil	Nil
	restoration, reclamation and	Proposed		
	rehabilitation of			
	lands affected by			
	mining operations (Pits, dumps etc)			
8f	Baseline	Not	NA	Nil
	information on existence of	Proposed		
	plantation &			
	additional			
	plantation done (Rule 41)			
8g	Survival rate	Not	60%	
		Specified		
8h		Proposed for Water	As per approved MP	2 Nos of water tankers are
		sprinkling	proposal	deployed.
	dust	on roads to		
		control airborne dust		
		and diffe dubt		

8i	General remarks	Aesthetic beauty in & around the mine is
	of inspecting	good. Lessee has carried out afforestation,
	officer on	sprinkling on haulage roads, crusher & other
	aesthetic beauty	protective measures are carried out regularly
	in and around	as per the proposals in the approved MP.
	mines area	

Compliance of Rule 45

	Compliance of Rule 45					
S. N.	Item	COMMENTS		Remarks		
9a	Status of		l up to 09-08-			
	submission of	2024				
	Monthly and		-			
	Annual returns	24 on 29-06-202	24			
S.	Item	Details	Observatio	Remarks		
N.		GIVEN in	n of			
		A.R.	I/Officer			
9b	Scrutiny of	Mining	Present			
	Annual return for	Engineer –	officers			
	information on	M.V.Mahesh	accompanie			
	Mining Engineer,	Geologist –	d during the			
	Geologist and	M.Ramesh	inspection.			
	Manager	Manager –				
		K.V.Sreedhar				
9c	Scrutiny of	Covered	Appears to			
	Annual return on	current	be correct.			
	land use pattern	workings –				
	for area under	12.22Ha.				
	pits, reclaimed	Used for				
	area, dumps etc.	waste disposal				
		– 12.44Ha.				
		Occupied by				
		plant,				
		buildings,				
		residential,				
		welfare				
		buildings &				
		roads –				
		2.52Ha.				
		Other purpose				
		(Mineral				
		storage, Green				

		Belt) – 4.22 Ha.		
9d	Scrutiny of Annual return on afforestation	Number of trees planted – 787, Survival rate in percentage – 60%	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No Proposals		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening Stock 97200 tonnes, Production 214000 tonnes and Closing Stock 98200 tonnes.	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value Rs.757308713 , EX mine Price as per grade wise for Lumps 45- 51%Fe: Rs.1330.33 Fines: 45- 51%Fe:Rs.11 27.46, 51-55%Fe: Rs.4176.82, 55-58%Fe: Rs.4621.69, 58-60%Fe: Rs.5068.44, 60-62%Fe: Rs.4280.42 and Production	Appears to be correct.	

		cost per ton Rs.1855.88		
9i	Scrutiny of Annual return on fixed assets	Rs.65549557	Appears to be correct.	
9k		1) Back hoe – 0.9 m3 – 1No. 2) Back hoe – 1.90 m3 – 1No. 3) Back hoe – 1.40 m3 – 1Nos. 4) Back hoe – 1.60 m3 – 3No. 5) Back hoe – 1.20 m3 – 3No. 6) Wheel loader – 2.50 m3 – 3Nos. 7) Tipper – 16 m3 – 12Nos. 8) Tipper – 14 m3 – 4Nos. 9) Drills – 100 mm dia – 1 No. 10) Mobile screener – 200tph – 1 No 11) Mobile crusher – 150tph – 2 Nos	Appears to be correct.	
		12) Air Compressor		

– 14 Cu.m /	
Min – 1No	
13) Water	
tanker –	
8000 liter –	
2No.	

ओमकेशा मूर्ति एम.जी.|OMKESHA| MURTHY M.G. क्षेत्रीय खनन भूविज्ञानी|REGIONAL| MINING GEOLOGIST