

MCDR INSPECTION REPORT (2023-24)**General**

S N	Particulars	Details
1	Name of the inspecting Officer & Designation	Dr. Sudhakara T.L. Senior Mining Geologist
2	Name of the Mine	Ramanadurga Iron Ore Mine (M.L.No.2141)
3	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land – 59.36 Ha.
4	Mine code	30KAR03101
5	Date of Inspection	01/10/2024
6	Name of official accompanying inspection	Mr. Sitaram Kemmannu- Mine Agent Mr. Nishant B. N. –Mines Manager Mr. Imran khan kerikatti - Geologist Mr. Raghunandan R B – Mining Engineer Mr. Kartesh S – Mines Surveyor
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/11807/2012
8	Name of the lessee, Address, phone, email and fax number	M/s.Sri Kumaraswamy Mineral Exports Pvt.Ltd., #453, 14 th ward ,SMIORE Colony,Sandur-583119 Ph No: +916364516834 e-mail ID: riom@skmepl.co
9	Village	Dharmapura
10	Taluka/Mandal	Sandur
11	District	Bellary
12	Pincode	583119.
13	State	Karnataka
14	Post office	Sandur
15	Nearest police station	Sandur
16	Nearest Railway station	Toranagallu
17	Date of Grant of Mining Lease	29-07-1991
18	Date of Execution	24.01.1992
19	Date of opening of Mine	November,1996
20	Date of first Renewal, if applicable and its period & expiry	NA
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	08.04.2010
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Shantesh Gureddi, No.61,Cunningham Cross Road,Vasanthnagar, Bangalore – 560052 PhNo :9845036556. Mail ID- Gurreddi.shantesh@gmail.com Date of Appointment: 20.01.2017.
24	Name of the Mine Agent with Address,	Name: Mr. Sitaram Kemmannu,

	phone, email, fax number and date of appointment		Address- No.61,Cunningham Cross Road,Vasanthnagar,Bangalore – 560052 Ph No-8826164683 Mail ID- sitaram@skmepl.co Date of Appointment-1/04/2018
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines		Name: Nishanth Bhanudas Natiye Address-# 1137,14 th Ward ,SMIORE Colony,Near Fire Station, Sandur, Ballari - 583119 Ph No-6366627567 Mail ID- nishant@skmepl.co Date of Appointment-16/08/2021
26	Name of the Mining Engineer & Geologist, Qualification and total experience	Mining engineer Qualification Date of appointment Address phone/email Total experience	Shri. Raghunandan R B BE IN MINING ENGINEERING 26/12/2022 1137,14 th Ward ,SMIORE Colony,Near Fire Station,Sandur,Ballari - 583119 Ph No-8277806154 Mail ID - -raghunandan@skmepl.co 09 Years
		Geologist Qualification Date of appointment Address phone/email Total experience	Shri. Imran khan kerikatti M.Sc (Applied Geology) / 05/09/2023 #453, 14 th Ward ,SMIOREColony,Near Fire Station,Sandur,Ballari - 583119., Ph No-7795744038 Mail ID - geologydept@skmepl.co 17 Years.
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.		YES
28	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.		Letter No:MAMP279/97/89/BNG Dated: 11.07.2023 Plan Period: 2023-24 to 2026-27
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.		No. 279/ 97/ 89/ BNG dated 11/07/2023
30	Mineral(s) granted in lease and proved for mining		Iron Ore
31	Method of Mining(Opencast, Underground)		Opencast
32	Category (Fully Mechanised, Others or Manual)		'A' Category-Fully Mechanized
33	Captive/Non Captive		Non Captive

1. Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	18 Core Boreholes with a total meterage of 1362 meters	18 Core Boreholes with a total meterage of 1373 meters	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s Skmepl, Geotech Exploration Nagapur and Gemcokatti exploration Nagpur	INR in lakh 83.92155	Cost includes drilling and analysis.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Entire Mineralized area 39.648Ha explored laterally under G1	Additional core drilling proposed where boreholes ended in mineralized zone.
1e	Balance reserves as on 01.04.2024	58289810 (111) 3871868 (122) Total: 62161678 tonnes (as per approved document dated 11.07.2023)	59.704 million Tons	Actual as per Latest Approved Mining plan and Annual returns
1f	General remarks of inspecting officer on geology, exploration etc.	The iron ore deposit is of Stratiform, Strata-bound and Tabular Deposits of Regular Habit. The general sequences of rock formations found in the lease area are in following order of superposition: 1. Lateritic Iron Ore/Laterite/ Soil Cover; 2. Intrusives (Altered); 3. Hematite Iron Ore & Hematitic Siliceous Iron Ore 4. Magnetitic Iron Ore; 5. Phyllite. Lessee has explored the mineralized area laterally under G1 level.		

2. Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 1667122 to N1667245 E662137 to E662173	N 1667122 to N1667245 E662137 to E662173	Development carried out within the proposed limit.
2b	Separate benches in topsoil,	Top Soil-0	Top Soil-0	

	overburden and mineral (Rule 15)	Overburden-2 Mineral-9	Overburden-2 Mineral-9	
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.09	----
2d	Quantity of topsoil generation in m ³	No Proposal	NIL	Working within the broken up area.
2e	Quantity of overburden/waste generation in m ³	100960 in m ³ (insitue mining 229180 tonnes @2.27BD) and 16308 m ³ (Dump Mining 42075 tonnes @2.58BD) Total: 245488 m ³	108685 in m ³ (239108 in tonnes) Including dump mining	Waste generated from Dump Mining also disposed in the waste dump as per proposal.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development of the pit is as per the approved Mining Plan. The deposit is stratiform and tabular in nature. The mining method adopted by the lessee is optimally aligned with this type of deposit.		

3. Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	N 1666918 To N 1667377, E 661762 To E 661989
3b	Quantity of ROM mineral production proposed	2701822 tonnes ROM and 98176 tonnes (saleble ore from Dump working) Total Saleble quantity 2799998 tonnes	2555000 tonnes (including 98176 Tonnes from salable ore)	Lessee has produced 2.555 Million tonnes as per allotted Revision of Production limit fixed by Monitoring Committee vide letter no. MC/R&R/MPAP/SKME/2023-24 dated 28.11.2023.
3c	Recovery of salable/usable mineral from ROM production	From ROM 100% From Dump Mining 70%	From ROM 100% From Dump Mining 70%	
3d	Quantity of mineral reject generation	No Proposal	NA	-----
3e	Grade of mineral	No Proposal	NA	-----

	reject generation and threshold value declared			
3f	Quantity of sub-grade mineral generation	No Proposal	NA	-----
3g	Grade of sub-grade mineral generation	No Proposal	NA	-----
3h	Manual / Mechanised method adopted for segregating from ROM	Fully Mechanized	Fully Mechanized	The method of working is by using excavator-dumper combination, with deep hole drilling & blasting. Crushing and Screening adopted for segregating lumps & fines of different grade.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	For magnetite ore lessee has carried out lab scale beneficiation study from RMPL, IBM, Bangalore	Lessee has submitted the Interim Beneficiation study report alongwith Mining Plan.
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting proposed	Lessee has carried out Drilling & blasting for hard laterite and BHQ by using control blasting technics with the help of NONEL and Slurry Explosives.	As per proposal
3k	Provision of mining machineries in mineral benches	Excavators -16 Wheel Loaders-12 Dumpers-26 Screens-5 Crushers-2 Water Tankers-7 Drilling Machine - 1 Rock Breakar-1	Excavators-16 Wheel Loaders-12 Dumpers-26 Screens-5 Crushers-2 Water Tankers-7 Drilling Machine Rock Breakar- 1	Machineries used as per proposal
3l	Whether height of	OB Height -7.5m	OB Height -7.5m	Top three (mineral)

	benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB Width -10m Mineral Height - 7.5m Mineral Width - 10m	OB Width -10m Mineral Height – not maintained Mineral Width - 10m	benches between section lines J-J' and K-K', the proposed width is not maintained as per the proposal. Violation pointed out under Rule 11(1) of MCDR, 2017.
3m	Total area covered under excavation/pits	41.03 Ha	41.03 Ha	
3n	Ore to OB ratio for the pit/mine during the year	Insitue Mining 1:0.08 Ore: 2701822 tonnes Waste: 229181 tonnes	1:0.09 Ore: 2555000 tonnes Waste: 108685 in m ³ (239108 in tonnes)	In Actual, waste generated from Dump Mining also included.
3o	Total area put in use under different heads at the end of year	(i) Covered under current (O/C) Workings : 41.03Ha	(i) Covered under current (O/C) Workings : 41.03Ha	Lease area utilization during the reporting year 2023-24
		(ii) Reclaimed/ Rehabilitated : 0Ha	(ii) Reclaimed/ Rehabilitated : 0Ha	
		(iii) Used for waste disposal : 3.78Ha	(iii) Used for waste disposal : 3.78Ha	
		(iv) Infrastructure : 1.151Ha	(iv) Infrastructure : 1.151Ha	
		(v) Mineral storage 2.02Ha	(v) Mineral storage 2.02Ha	
3p	Production of ROM mineral during last five-year period, as applicable			
	Year- 2019-20	1640000 (T)	1640000 (T)	-----
	Year- 2020-21	1940000 (T)	1940000 (T)	-----
	Year- 2021-22	1940000 (T)	1898370 (T)	Production carried out as per the capping fixed by CEC
	Year- 2022-23	2400000 (T)	2013000 (T)	
	Year- 2023-24	2800000 (T)	2555000 (T)	
3q	General remarks of inspecting officer on method of mining etc.	Method of Mining is as per approved Mining Plan. However, top three (mineral) benches between section lines J-J' and K-K', the proposed width of bench is not maintained as per the proposal. Violation pointed out under Rule 11(1) of MCDR, 2017.		

4. Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil –Nil Mineral Rejects- OB/Waste: D2 BHQ Dump (T)	OB/Waste: D2 BHQ Dump (T)	No top soil generated, mining carried out in broken up area.
4b	Location of topsoil, OB & mineral reject dumps	WASTE DUMP-2 N 1667245 N 1667122 to E 662173 E 662137 <u>TEMPORARY BHQ DUMP</u> N 1667697 N1667854 to E 661297 E 661488	WASTE DUMP-2 N 1667245 N 1667122 to E 662173 E 662137 <u>TEMPORARY BHQ DUMP</u> N 1667697 N1667854 to E 661297 E 661488	Dumping carried out within the proposed extent
4c	Number of dumps within lease area and outside lease area	<u>Dump-1</u> N1667420 to N1667660 E661580 to E662050 <u>Dump-2</u> N 1667245 N 1667122 to E 662173 E 662137 <u>TEMPORARY BHQ DUMP</u> N 1667697 N1667854 to E 661297 E 661488	<u>Dump-1</u> N1667420 to N1667660 E661580 to E662050 <u>Dump-2</u> N 1667245 N 1667122 to E 662173 E 662137 <u>TEMPORARY BHQ DUMP</u> N 1667697 N1667854 to E 661297 E 661488	All dumps within the lease area
	Fencing	600 m length N 1667641 N1667454 to E 661580 E 662100	600 m length N 1667641 N1667454 to E 661580 E 662100	Fencing work carried out as per approved Mining plan.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	<u>TEMPORARY BHQ DUMP</u> N 1667697 N1667854 to E 661297 E 661488	<u>TEMPORARY BHQ DUMP</u> N 1667697 N1667854 to E 661297 E 661488	Temporary BHQ dump is located within the ultimate pit limit as per approved Mining Plan.
4e	Number of active & alive dumps	2 No.	2 No.	One active dump and one temporary BHQ dump.
4f	Number of dead dumps	0	0	-----
4g	Number of dumps stabilized	5 Terraces of D2 dump are stabilized & 1 terrace proposed	6 Terraces of D2 dump are stabilized including one	Partial area of D2 dump around 1.80 Ha stabilized by

		in 2023-24 with coir matting and plantation over area of 0.17 Ha.	which was proposed in the year 2023-24 with coir mating and plantation over an area of 0.25 Ha.	laying coir mats growing seeds and native plantation which includes 2023-24 plantation.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Retaining wall and garland drain all along dumps are constructed.
4i	Length of Retaining wall or garland drain all along dump	RW - 326 mtr GD – 282 mtr	RW - 200mtr GD – 190 mtr	Construction under progress as per site condition.
4j	Number of settling ponds	No Proposal	3 no. of settling tank is reconstructed during the year 2023-24	Total 11 SST were are Constructed
4f	Specific comments of inspecting officer on waste dump management.	Lessee has made systematic terracing, coir-matting and grassification on the active waste dump. Retaining wall and garland drain present along the toe of the waste dump and constructed silt settling ponds to arrest the silt.		

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	NA	There is no proposed area for Backfilling in FY 2023-24
5b	Area under backfilling of mined out area	No Proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	NA	
5d	Total area fully reclaimed & rehabilitated	No Proposal	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral not exhausted in the pits and mine pit not matured for backfiling.		

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	Yes.	Yes, submitted on 21.06.2024.	

	format as given in Annexure-20.			
6b	Area available for rehabilitation (Ha)	No proposal	NIL	
6c	Afforestation done (ha)	0.170Ha	0.170Ha	
6d	No. of saplings planted during the year	1000 (WML)	1300 sapling (WML)	
6e	Cumulative no. of plants	No proposal	7051 plants	
6f	Any other specific method of rehabilitation	-	-	
6g	Cost incurred on watch & care during the year	No Proposal	Rs. 6400288	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No Proposal	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No Proposal	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No Proposal	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Not applicable.	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No Proposal	Not applicable.	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No Proposal	Not applicable.	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No Proposal	Not applicable.	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	Not applicable.	
6p	Compliance of Environmental monitoring (core zone &	Environmental monitoring proposed in	Environmental monitoring carried out in	Environmental monitoring is

	buffer zone)	core zone & buffer zone	core zone & buffer zone on monthly basis by NABL Accredited laboratory	carried out by Mineral Engineering Services NABL Accredited laboratory
6q	General remarks of inspecting officer on PMCP compliance & Progressive closure operations	Lessee has undertaken PMCP activities as per proposal. Construction of proposed Toe wall and Garland drain was under progress.		

7. Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area.	Grade wise sorting carried within the lease area	Crushing and screening carried out to separate lumps & fines
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Grade wise sorting proposed Mechanically during excavation & size wise sorting by using Crusher & Screening plant.	Carried out as per proposal	
7c	Different grade of mineral sorted out at mines	Lumps & Fines Fe 35 to 66%	Lumps & Fines 0 -55 % 55-58% 58-60% 60-62% 62-65% Are graded and dispatched.	Actual as per details provided in Annual Return.
7d	Any beneficiation process at mines	No proposal	NA	Only dry process by mobile crusher & screening.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Beneficiation plant installed in the mine and only screening and crushing is carried out for sorting of lumps & fines from ROM of Hematite ore. There is also magnetite ore in the lease area, for which lessee has undertaken lab scale beneficiation study from IBM, Bangalore lab.		

8. Environment

S.N	Item	Proposals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA	No top soil generated during FY 2023-24.
8b	Concurrent use or storage of topsoil	No Proposal	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	<u>Dump-2(Waste)</u> N 1667245 N 1667122 to E 662173 E 662137 <u>BHQ DUMP</u> N 1667697 N1667854 to E 661297 E661488	<u>Dump-2(Waste)</u> N 1667245 N 1667122 to E 662173 E 662137 <u>BHQ DUMP</u> N 1667697 N1667854 to E 661297 E661488	Mineral, waste and BHQ stored separately as per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation proposed Inactive slopes on the Active Dump D-2.	Plantation done on slopes on the Active Dump D-2, Safety zone area, Gap filling	As per data submitted, 7051 plants are planted inside the lease area, safetyzone, gap filling and Dump D2 area.
8g	Survival rate	80%	85%	--
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Water sprinklers & water tanks are regularly used on roads to control airborne dust.	
8i.	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lease area surrounded by natural forest, Aesthetic beauty in and around the mines area is good.		

9. Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	A.R. Submitted up to 2023-24(03.06.2024)		MR and AR submitted within stipulates time
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	Graduate Mining Eng. 06 nos. Geologist : 01 no.	Appears to be correct.	Mr. Nishant B. N. – Mines Manager Mr. Imran khan kerikatti - Geologist Mr. Raghunandan R B – Mining Engineer Were present during the day of inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O/C) Workings : 41.03Ha (ii) Reclaimed/ Rehabilitated : 0Ha (iii) Used for waste disposal : 3.78Ha (iv) Infrastructure : 1.151Ha (v) Mineral storage 2.02Ha	Appears to be correct	Nil
9d	Scrutiny of Annual return on afforestation	1300 plants (WML) 85% survival rate	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 OS: Nil Production: 2456824 tonnes CS: Nil Dump working: OS: 522299 tonnes Production: 98176 CS: 382048 tonnes	Lessee reported opening Stock of 522299 tons as Dump workings, however, as per Annual returns of 2022-23, there is no closing of stock of Dump working.	Violation pointed out under Rule 45(7) of MCDR, 2017 and showcause notice issued.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of Production: Rs. 1770.37	Ex-mine price given was not tallying with the sales, dispatched	Violation pointed out under Rule 45(7) of MCDR, 2017 and showcause notice

			figures reported in Section (6) of Part-VI of AR and Cost of Production reported was also not tallying with section 6(i) of Part III of AR	issued.
9i	Scrutiny of Annual return on fixed assets	Rs. 56328129	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	Excavators-16 Wheel Loaders-12 Dumpers-26 Screens-5 Crushers-2 Water Tankers-7 Drilling Machine Rock Breaker- 1	Appears to be correct.	

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
11(1) of MCDR	12/08/2024	29/11/2024	45(7) of MCDR	12/08/2024	18/09/2024

Digitally signed by
Sudhakara T L

Date: 23-04-2025 (Sudhakara T. L.)

18:16:26
वरिष्ठ खनन अभियंता / Senior Mining Geologist