

MCDR INSPECTION REPORT FOR THE YEAR 2023-24

File No: MCDR-MiFLOFE/9/2022-BNG-IBM_RO_BNG

General

SL. No.	Particulars	Details
1	Name of the Mine	THE SANDUR MANGANESE & IRON ORES LIMITED (ML NO 2678)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest : 1612.72 ha Non-Forest : 247.38 ha Total : 1860.10 ha
3	Mine code	30KAR30180
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/35/2011
5	Name of the lessee, Address, phone, email and fax number	THE SANDUR MANGANESE & IRON ORES LIMITED 'SATYALAYA' No. 266, Ward No.1, Palace Road, Sandur-583119, Ballari District, Karnataka. Phone:08395260301, Fax:08395260473, Email: eps@sandurgroup.com
6	Village	Deogiri, S.B. Halli, Kammathur and Ramghad
7	Taluka/Mandal	Sandur
8	District	Ballari
9	Pin code	583119
10	State	Karnataka
11	Post office	Deogiri
12	Nearest police station	Sandur
13	Nearest Railway station	Toranagallu
14	Date of Grant of Mining Lease	01.01.1954
15	Date of Execution	08.10.1955
16	Date of opening of Mine	08.10.1955
17	Date of first Renewal, if applicable and its period & expiry	4.4.1974 Period 20 years w.e.f 1/1/1974
18	Date of second Renewal, if applicable and its period & expiry Date of third Renewal, if applicable and its period & expiry	25.4.2008 Period 20 years w.e.f 1/1/1994 20.03.2015, 20 years from 1.1.2014. Date of Expiry 31.12.2033
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	Shri. Md.Abdul Saleem Nominated Owner 112, Sandur Taluka, Ballari District Karnataka. Tel:08395-271025/28/29/40 , Mobile: 9448497927, Email: saleem@sandurgroup.com, Fax: 08395-271066, Date of appointment: 06 September 2015

		Date of appointment as Nominated Owner: 29 June 2020
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Krishna Reddy, Agent Address: Deogiri – 583112, Sandur Taluka, Ballari District Karnataka. Tel:08395-271025/28/29/40 , Mobile: 9448497925, Email: krishna.reddy@sandurgroup.com, Fax: 08395-271066, Date of appointment: 6 th September 2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Karthik S, Address: Deogiri – 583112, Sandur Taluka, Ballari District Karnataka. Tel:08395-271025/28/29/40 , Mobile: 9449164181 Email: karthika@sandurgroup.com Date of Appointment: 21 August 2019 Experience: 19 Years Shri Shivakumar R C, Address: Deogiri – 583112, Sandur Taluka, Ballari District Karnataka. Tel:08395-271025/28/29/40, Mobile: 9448497866 Email: shivakumar.mining@gmail.com Date of Appointment :01June 2023 Experience: 29 Years Shri Subbakumar Swamy. S, Address: Deogiri – 583112, Sandur Taluka, Ballari District Karnataka. Tel:08395-271025/28/29/40, Mobile: 9448497936 Email: Subbakumarswamy.s@sandurgroup.com Date of Appointment: 01 June 2023 Experience: 29Years
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Sunilkumar G Qualification: B.E Mining Experience: 12 years Address: Deogiri – 583112, Sandur Taluka, Ballari District Karnataka. Tel: 08395-271025/28/29/40 , Mobile:9448497899 Email: sunil.bemn@gmail.com Fax: 08395-271066 Date of appointment: 01 September 2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri. Rajesh M Katral M.Sc (Applied Geology), Address: Deogiri – 583112, Sandur

		Taluka, Ballari District Karnataka. Mobile:9448497875 Email: katral@sandurgroup.com Date of appointment :19 June 2005 Experience: 19 Years
25	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	The Review and updation of Mining plan was approved by IBM vide letter no. 279/281/91/BNG-Vol-II dtd 19/09/2022 for the period 2023-24 to 2027 28 & modifications to the Approved Mining plan was approved by IBM vide letter no. MCDR-MPC0FE/4/2024-BNG-IBM_RO_BNG dated 10/05/2024 for the period 2024-25 to 2027-28.
26	Mineral(s) granted in lease and proved for mining	Iron Ore & Manganese Ore
27	Method of Mining (Opencast, Underground)	Open cast
28	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
29	Captive/ non-captive	Non-captive
30	Accompanying officials	Shri Karthika S, Shri S. Subbukumaraswamy, Shri Shivakumar R C, Mines Manager, Shri Deepak Cukkae Anilkumar, AGM Geology and other mine officials
31	Date of previous inspection	05.12.2023
32	Date of inspection	26.12.2024

Exploration: -

SL. No	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
1a	Backlog of previous year	No Proposal during the RY	No Backlog	
1b	Exploration over lease area for Geological axis 1 or 2.	35 exploratory bore holes of 1050 mtrs proposed.	264 exploratory boreholes drilled amounting to total of 7696 mts.	As reported by Lessee in AR 2023-24.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned	The Sandur Manganese & Iron Ores Limited (DTH Drilling) ₹ 24.62 lakh	As reported by Lessee in AR 2023-24. Part-V (General Geology & Mining) of AR 2023-24: The expenditure on exploration as reported in this para is not matching with the exploration cost per ton as reported later in Part-VII

				(Cost of Production). Violation issued under Rule 45(7) of MCDR 2017.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1= 862.41ha G2= 266.13 ha G3=298.73 ha Area proved as non-mineralized=432.83 ha	G1=1113.44 ha, G2= 141.05 ha. G3=35.81 ha G4=0.00 ha Area proved as non-mineralized=569.80 ha	[Updated exploration & G-Area details have been incorporated in Modifications to the Approved Mining Plan for period 2024-25 to 2027-28] approved dtd 10/05/2024.
1e	Balance reserves as on 01.04.2024	As per the approved document dated 10/05/2024 the estimated reserves as on 31 December 2023 Iron Ore is 116,790,754 tonnes with HIO avg grade 51.15 % Fe and HSIO avg grade 39.23 % Fe and Manganese Ore is 14,772,996 tonnes with avg grade 14.30 % Mn	As on 01.04.2024 Iron Ore Reserves: 116,027,320 Manganese ore Reserves 14,682,887 tonnes (After depletion of production quantity)	Re-estimated Reserves as on 31 December 2023 post exploration has been approved in Modifications to the Approved Mining Plan for period 2024-25 to 2027-28 approved dtd 10/05/2024.
1f	General remarks of inspecting officer on geology, exploration etc.	<p>i)The Reserves & Resources for both iron ore & manganese ore has been reported correctly in AR 2023-24 after depletion of production.</p> <p>ii)The exploratory boreholes and exploration limits have been incorporated and updated in Modifications to the Approved Mining Plan for period 2024-25 to 2027-28 approved dtd 10/05/2024.</p> <p>iii)Part-V (General Geology & Mining) of AR 2023-24: The expenditure on exploration as reported in this para is not matching with the exploration cost per ton as reported later in Part-VII (Cost of Production). Violation issued under Rule 45(7) of MCDR 2017.</p>		

Development

SL.	Item	Proposals	Actual work	Remarks
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No		(Year 2023-24)	(Year 2023-24)	
2a	Location of development w.r.t. lease area	<p>Mn ore pit JLK: N 1659331 to 1659716, E 675339 to 676033 YRD: N 1658686 to 165908, E 674316 to 674617. RMK: N 1657919 to 1658369, E 673404 to 673993. CBG: N 1657605 to,1658000 E 670740 to 671579. SK: N 1657665 to 1658180 E 669801 to 670788 KMK(E): N 1658176 to 1658768, E 669047 to 669821. KMK: N 1658635 to 1659062, E 668469 to 668733. CHN: N 1658650 to 1659102. E 667802 to 668116 NK: N 1658757 to 1659161, E 666884 to 667658. KPTS: N 1658780 to 1659185, E 665782 to 666415 Iron ore Pit: KTIO-A: N 1660993 to 1661893, E 673901 to 674676, KTIO-B: N 1659939 to 1660822, E 675001 to 676201. KVHIO: N 1660824 to 1661391, E 672141 to 672361.</p>	<p>Mn ore pit JLK: N 1659331 to 1659716, E 675339 to 676033 YRD: N 1658686 to 165908, E 674316 to 674617. RMK: N 1657919 to 1658369, E 673404 to 673993. CBG: N 1657605 to,1658000 E 670740 to 671579. SK: N 1657665 to 1658180 E 669801 to 670788 KMK(E): N 1658176 to 1658768, E 669047 to 669821. KMK: N 1658635 to 1659062, E 668469 to 668733. CHN: N 1658650 to 1659102. E 667802 to 668116 NK: N 1658757 to 1659161, E 666884 to 667658. KPTS: N 1658780 to 1659185, E 665782 to 666415 Iron ore Pit: KTIO-A: N 1660993 to 1661893, E 673901 to 674676, KTIO-B: N 1659939 to 1660822, E 675001 to 676201. KVHIO: N 1660824 to 1661391, E 672141 to 672361.</p>	As reported by Lessee during inspection.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches proposed in overburden and mineral	Separate benches developed in overburden and mineral is maintained. Topsoil generated is utilized for plantation.	Nil
2c	Stripping ratio or OB to Ore ratio.	Proposed Waste in tonnes	Actual Waste in tonnes Iron ore: 1.100,142 Manganese Ore:	i)There was delay in securing the Statutory

		<p>Iron ore: 3,192,977 Manganese Ore: 10,314,102</p> <p>ROM in tonnes Iron Ore: 5,477,909 Manganese Ore: 986,839</p> <p>Stripping Ratio 1: 0.58 in Iron Ore (In tons)</p> <p>Stripping Ratio 1: 10.45 in Manganese Ore (In tons)</p>	<p>7,049,219</p> <p>RoM in tonnes Iron Ore: 1,968,400 Manganese Ore: 283,002</p> <p>Stripping Ratio 1: 0.56 in iron Ore (in tons)</p> <p>Stripping Ratio 1: 24.9 in Manganese Ore (In tons)</p>	<p>clearances like CFE/CFO and capping on MPAP of Manganese to 0.283 million tonnes against proposed RoM production of 0.986 million tonnes and in Iron ore MPAP was capped to 1.968 million tonnes against 5.47 million tonnes. (As reported by Lessee during inspection.</p> <p>ii) For the fiscal year 2023-24, it was proposed to produce 986,839 tonnes of Manganese ore by handling 10,314,102 tonnes of OB/Waste Quantity with a stripping ratio of 1:10.45. However, upon inspection, it was noted that 7,049,219 tons of Overburden/waste were handled to achieve the manganese ore quantity of only 2,83,002 tons, resulting in an attained stripping ratio of 1: 24.90. The stripping ratio is not maintained as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.</p>
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2d	Quantity of topsoil generation in m ³	57,310 m ³	5,385 m ³	Less top soil generation due to lack of movement of top benches for want for tree cutting permission from Forest Department as reported by Lessee during inspection.
2e	Quantity of overburden generation in m ³	OB for iron ore production: 1,715,524 OB for Manganese Ore production: 4,733,062 Top Soil: 57,310 G. total: 6,505,896 (In Cum)	Actual OB handled for iron ore production: 625,081 Actual OB handled for Manganese Ore production: 3,288,643 Top Soil: 5385 G. Total: 3,919,109 (In Cum).	<p>i) There was delay in securing the Statutory clearances like CFE/CFO and capping on MPAP of Manganese to 0.283 million tonnes against proposed RoM production of 0.986 million tonnes and in Iron ore MPAP was capped to 1.968 million tonnes against 5.47 million tonnes. (As reported by Lessee during inspection.</p> <p>ii) For the fiscal year 2023-24, it was proposed to produce 986,839 tonnes of Manganese ore by handling 10,314,102 tonnes of OB/Waste Quantity with a stripping ratio of 1:10.45. However, upon inspection, it was noted that 7,049,219 tons of Overburden/waste were handled to</p>

				achieve the manganese ore quantity of only 2,83,002 tons, resulting in an attained stripping ratio of 1: 24.90. The stripping ratio is not maintained as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	For the fiscal year 2023-24, it was proposed to produce 986,839 tonnes of Manganese ore by handling 10,314,102 tonnes of OB/Waste Quantity with a stripping ratio of 1:10.45. However, upon inspection, it was noted that 7,049,219 tons of Overburden/waste were handled to achieve the manganese ore quantity of only 2,83,002 tons, resulting in an attained stripping ratio of 1: 24.90. The stripping ratio is not maintained as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.		

Exploitation: -

SL. No	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
3a	Number of pits proposed for production	Manganese ore: 10 pits under regular production. Iron ore: Production envisaged from 12 pits out of which three are exclusive Iron Ore pits namely KTIO-A, KTIO-B and KVHIO and rest are incidental Iron Ore from Mn pits.	Manganese ore: 10 pits under regular production has been worked. Iron ore has been principally worked from KTIO (A& B Blocks) and KVHIO. Incidental Iron Ore generated from some of the Manganese Pits has been blended and sold.	Nil.
3b	Quantity of ROM mineral production proposed	Iron Ore: 5477909 Tonnes Manganese Ore: 986839 Tonnes	Iron Ore: 1968400 Tonnes Mn Ore: 283002 Tonnes	Less production was due to delay in securing the Statutory clearances like CFE/CFO and capping on MPAP of Manganese to 0.283 million tonnes against proposed RoM production of 0.986 million

				tonnes and in Iron ore MPAP was capped to 1.968 million tonnes against 5.47 million tonnes. (As reported by Lessee during inspection.
3c	Recovery of salable/usable mineral from ROM production	Iron ore- 82 % proposed, Mn ore- 43.5 % proposed	Iron ore- 100 % achieved, Mn ore- 100 % achieved	In Iron Ore the proposed rejects in Iron ore were from wet beneficiation process and in case of manganese ore was for +10-23 % Mn. During year 2023-24, wet beneficiation has not been constructed/implemented and hence there is no generation of rejects. In Manganese MPAP was capped at 0.283 MTPA for FY 2023-24 and all the manganese produced is found to be saleable, hence no generation of Mineral Rejects in Mn. Further since wet beneficiation process was not implemented/constructed, accordingly same was incorporated in modifications to the Approved Mining Plan for period 2024-25 to 2027-28 and was approved dtd 10/05/2024.
3d				In Iron Ore the

	Quantity of mineral reject generation	Iron Ore:582,235 tonnes Manganese Ore: 977,910 tonnes proposed	Iron Ore: Nil Manganese ore: Nil (As reported by Lessee in AR 2023-24)	proposed rejects in Iron ore were from wet beneficiation process and in case of manganese ore was for +10-23 % Mn. During year 2023-24, wet beneficiation has not been constructed/implemented and hence there is no generation of rejects. In Manganese MPAP was capped at 0.283 MTPA for FY 2023-24 and all the manganese produced is found to be saleable, hence no generation of Mineral Rejects in Mn. Further since wet beneficiation process was not implemented/constructed, accordingly same was incorporated in modifications to the Approved Mining Plan for period 2024-25 to 2027-28 and was approved dtd 10/05/2024.
3e	Grade of mineral reject generation and threshold value declared	Iron Ore: Tailings < 35% Fe Manganese: 10- 23 % Mn	Iron Ore: Nil Manganese: Nil	In Iron Ore the proposed rejects in Iron ore were from wet beneficiation process and in case of manganese ore was for +10-23 % Mn. During year 2023-24, wet beneficiation has

				not been constructed/implemented and hence there is no generation of rejects. In Manganese MPAP was capped at 0.283 MTPA for FY 2023-24 and all the manganese produced is found to be saleable, hence no generation of Mineral Rejects in Mn. Further since wet beneficiation process was not implemented/constructed, accordingly same was incorporated in modifications to the Approved Mining Plan for period 2024-25 to 2027-28 and was approved dtd 10/05/2024.
3f	Quantity of sub-grade mineral generation	No proposal	Nil	Nil
3g	Grade of sub-grade mineral generation	No proposal	Nil	Nil
3h	Manual/Mechanized method adopted for segregating from ROM	Mechanized Method of Mining Operation along with both Dry Crushing and Screening and also Wet Beneficiation in Iron ore and Mechanized operation followed by Manual Sorting in Manganese Ore	Mechanized Method of Mining Operation in Iron ore and Dry Crushing and Screening for Iron ore adopted. Mechanized operation followed by Manual Sorting in Manganese Ore.	No Beneficiation inside mine.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed.	Nil	Nil

3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting has been made both in Iron Ore and Manganese Ore for Overburden and Ore.	Controlled Blasting Techniques using NONEL and Slurry Explosive in Iron Ore and Manganese development along with Production.	Drill-110 mm dia. etc.
3k	Provision of mining machinery in mineral benches	Proposed mining machineries.	Excavator-47 No's (0.8-1.8 m ³) Wheel loaders-35 No's (1.7-2.6 m ³) Tippers-239 No's (6-20 Cum), Water Tanker-23 No's (7kl-12kl) Drill-13 No's (110 mm) Etc.	As reported in AR 2023-24.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Maximum Bench height & Minimum Bench width –7.5 m in both iron ore and manganese pits.	Actual Bench height – maximum 7.5 m Bench width – minimum 7.5 m maintained in iron ore and manganese pits as per the proposal.	Nil.
3m	Total area covered under excavation/pits	491.01 ha proposed as on 31.03.2024.	440.75 ha as reported in AR 2023-24.	Part-I(General) of AR 2023-24- The land use (area in ha) as reported in Part-I (12) under 12(ii) i.e., Covered under current(O/C) workings have not been reported in accordance with approved land use pattern of the last mine plan document dtd. 10/05/2024. Violation issued under Rule 11(1) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year	Proposed Waste in tonnes Iron ore: 3,192,977 Manganese Ore:	Actual Waste in tonnes Iron ore: 1,100,142 Manganese Ore: 7,049,219 RoM in tonnes	i)There was delay in securing the Statutory clearances like CFE/CFO and capping on MPAP

		<p>10,314,102</p> <p>ROM in tonnes Iron Ore: 5,477,909 Manganese Ore: 986,839</p> <p>Stripping Ratio 1: 0.58 in Iron Ore (In tons)</p> <p>Stripping Ratio 1: 10.45 in Manganese Ore (In tons)</p>	<p>Iron Ore: 1,968,400 Manganese Ore: 283,002</p> <p>Stripping Ratio 1: 0.56 in iron Ore (in tons)</p> <p>Stripping Ratio 1: 24.9 in Manganese Ore (In tons)</p>	<p>of Manganese to 0.283 million tonnes against proposed RoM production of 0.986 million tonnes and in Iron ore MPAP was capped to 1.968 million tonnes against 5.47 million tonnes. (As reported by Lessee during inspection.</p> <p>ii) For the fiscal year 2023-24, it was proposed to produce 986,839 tonnes of Manganese ore by handling 10,314,102 tonnes of OB/Waste Quantity with a stripping ratio of 1:10.45. However, upon inspection, it was noted that 7,049,219 tons of Overburden/waste were handled to achieve the manganese ore quantity of only 2,83,002 tons, resulting in an attained stripping ratio of 1: 24.90. The stripping ratio is not maintained as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.</p>
3o	Total area put in use under different heads at the end of year	<p>Mining: 491.00 ha Waste dumps: 346.865 ha Infrastructure & Roads:</p>	<p>Mining: 440.75 ha Waste dumps: 302.20 ha Infrastructure & Roads: 111.46 ha.</p>	Part-I(General) of AR 2023-24- The land use (area in ha) as reported in

		111.78 ha.		Part-I (12) under 12(ii) i.e., Covered under current(O/C) workings have not been reported in accordance with approved land use pattern of the last mine plan document dtd. 10/05/2024		
3p	Production of mineral ROM during last five-year period, as applicable	Mn Ore- (in tonnes)		Mn Ore- (in tonnes)		Production achieved are within MPAP limits as fixed by Monitoring Committee and as reported by Lessee in Annual Return.
		2019-20	2,54,000	2019-20	2,53,053.06	
		2020-21	2,54,000	2020-21	2,53,053.00	
		2021-22	2,54,000	2021-22	2,53,978.00	
		2022-23	2,54,000	2022-23	2,53,977.59	
		2023-24	10,70,332	2023-24	2,83,002.42	
		Iron Ore- (in tonnes)		Iron Ore- (in tonnes)		
		2019-20	16,00,000	2019-20	15,95,000.02	
		2020-21	16,00,000	2020-21	15,95,000.00	
		2021-22	16,00,000	2021-22	15,65,668.00	
		2022-23	16,00,000	2022-23	15,99,998.50	
2023-24	54,77,909	2023-24	19,68,400.00			
3q	General remarks of inspecting officer on method of mining etc.	<p>i) For the fiscal year 2023-24, it was proposed to produce 986,839 tonnes of Manganese ore by handling 10,314,102 tonnes of OB/Waste Quantity with a stripping ratio of 1:10.45. However, upon inspection, it was noted that 7,049,219 tons of Overburden/waste were handled to achieve the manganese ore quantity of only 2,83,002 tons, resulting in an attained stripping ratio of 1: 24.90. The stripping ratio is not maintained as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) Part-I(General) of AR 2023-24- The land use (area in ha) as reported in Part-I (12) under 12(ii) i.e., Covered under current(O/C) workings have not been reported in accordance with approved land use pattern of the last mine plan document dtd. 10/05/2024. Violation issued under Rule 45(7) of MCDR 2017.</p> <p>iii) Since wet beneficiation process was not implemented/constructed as per the proposal, accordingly same was incorporated in modifications to the Approved Mining Plan for period 2024-25 to 2027-28 and was approved dtd 10/05/2024.</p>				

Solid Waste Management-Dumping: -

SL. No	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumps were proposed for Mineral rejects and Over burden	Separate dumping of overburden carried out, No mineral Reject generation during year 2023-24. Topsoil generated utilized for plantation	Nil
4b	Location of topsoil, OB & mineral reject dumps	<p>JLK: N 1659364 to 1659612, E 675305 to 675441. YRD: N 1658856 to 1659032, E 674670 to 674934. RMK: N 1657597 to 1657956, E 672950 to 673189. CBG: N 1657286 to 1657674, E 671222 to 671810, N 1657556 to 1657801, E 670689 to 670242, N 1657801 to 1658281, E 670326 to 670996, SK: N 1658207 to 1658517, E 670242 to 670558 KMK(E): N 1658340 to 1657467, E 669850 to 669276, KMK: N 1658531 to 1658847, E 668292 to 668531, NK: N 1658348 to 1658702, E 667059 to 667417. N 1658744 to 1658598, E 667527 to 667658.</p>	<p>JLK: N 1659364 to 1659612, E 675305 to 675441. YRD: N 1658856 to 1659032, E 674670 to 674934. RMK: N 1657597 to 1657956, E 672950 to 673189. CBG: N 1657286 to 1657674, E 671222 to 671810, N 1657556 to 1657801, E 670689 to 670242, N 1657801 to 1658281, E 670326 to 670996, SK: N 1658207 to 1658517, E 670242 to 670558 KMK(E): N 1658340 to 1657467, E 669850 to 669276, KMK: N 1658531 to 1658847, E 668292 to 668531, NK: N 1658348 to 1658702, E 667059 to 667417. N 1658744 to 1658598, E 667527 to 667658 KPTS: N 1658898 to 1658612, E 666986 to 666586. Iron Pits: KTIO (A&B): N 1659078 to 1659447, E 677172 to 676397. KVHIO: N 1661802 to 1661421, E 664948 to 664726.</p>	As per proposal.

		<p>KPTS: N 1658898 to 1658612, E 666986 to 666586.</p> <p>Iron Pits: KTIO (A&B): N 1659078 to 1659447, E 677172 to 676397.</p> <p>KVHIO: N 1661802 to 1661421, E 664948 to 664726.</p>		
4c	Number of dumps within lease area and outside lease area	<p>Within lease area-86 OB dumps Outside mining lease area- Nil</p>	<p>Within lease area-86 OB dumps Outside mining lease area- Nil</p>	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Majority of existing dumps of waste are outside the UPL and only few of them are partly within the UPL.	Majority of existing dumps of waste are outside the UPL and only few of them are partly within the UPL.	Nil
4e	Number of active & alive dumps	14 active dumps	14 active dumps D4, D20, D22, D-23, D-24, D25, D-28 to 32, D-42, D49 & D-72	Total 14 dumps were active during the year 2023-24 in working pits.
4f	Number of dead dumps	72 dead dumps	72 dead dumps	Out of 72 dead dumps, 45 dumps stabilized as per the last approved mine plan document dtd 10/05/2024.
4g	Number of dumps stabilized	45 dumps stabilized	45 dumps stabilized	As per last approved document dtd 10/05/2024.
4h	Whether Retaining wall or garland drain all along dumps are there	<p>Retaining Wall - 1707 meters Garland Drain - 1916 meters</p>	It was observed during inspection that for the year 2023-24, 1707 m of Retaining wall & 1916 metres of garland drain are proposed against which only 938 metres of Retaining wall and 827 metres of garland drain are constructed.	Violation issued under Rule 11(1) of MCDR 2017.
4i	Length of Retaining	Retaining Wall - 1707	It was observed during	Violation

	wall or garland drain all along dump	meters Garland Drain - 1916 meters	inspection that for the year 2023-24,1707 m of Retaining wall & 1916 metres of garland drain are proposed against which only 938 metres of Retaining wall and 827 metres of garland drain are constructed.	issued under Rule 11(1) of MCDR 2017.
4j	Number of settling ponds	No proposal during the Reporting Year	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management.	i)Waste dumping carried within the proposed extent at earmarked location as per the proposal. ii) It was observed during inspection that for the year 2023-24,1707 m of Retaining wall & 1916 metres of garland drain are proposed against which only 938 metres of Retaining wall and 827 metres of garland drain are constructed. Violation issued under Rule 11(1) of MCDR 2017.		

Solid Waste Management-Back filling

SL. No	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Yerranadri (YRD) & Jaladikolla (JLK) pits, Total area-4.4 ha.	During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha.	Violation issued under Rule 11(1) of MCDR 2017.

5b	Area under backfilling of mined out area	4.4 ha proposed	During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha.	Violation issued under Rule 11(1) of MCDR 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	57,310 m ³	5,385 m ³ Top Soil generated utilized for Plantation	Less top soil generation due to lack of movement of top benches for want for tree cutting permission from Forest Department as reported by Lessee during inspection. Top Soil generated used for afforestation activities at CBG and KMK , Neerkolla pits.
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha. Violation issued under Rule 11(1) of MCDR 2017.		

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 by 1 st July of every year	Annual PMCP report submitted along with Annual Return 2023-24 on 28.06.2024	Submitted within timeline.
6b	Area available for rehabilitation (ha)	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone. It is observed that plantation of only 56,420 nos. of plants carried out at 15.12 ha as per the plantation figures reported in Annual return 2023-24.	Violation issued under Rule 11(1) of MCDR 2017.
6c	Afforestation done (ha)	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone. It is observed that plantation of only 56,420 nos. of plants carried out at 15.12 ha as per the plantation figures reported in Annual return 2023-24.	Violation issued under Rule 11(1) of MCDR 2017.
6d	No. of saplings planted during the year	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants	Violation issued under Rule 11(1) of MCDR 2017.

		plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone	proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone. It is observed that plantation of only 56,420 nos. of plants carried out at 15.12 ha as per the plantation figures reported in Annual return 2023-24.	
6e	Cumulative no. of plants	Not mentioned	35,78,748 Cumulative as on 01.04.2024(As reported by Lessee during inspection.	The cumulative plantation figures under "Total no. of trees at the end of the year" under Part-V (5) of AR 2023-24 is not reported correctly. Violation issued under Rule 45(7) of MCDR 2017.
6f	Any other specific method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch & care during the year	₹ 33,75,000 proposed for afforestation	₹ 30,91,800 as reported by the Lessee during inspection.	For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone. It is observed that plantation of only 56,420 nos. of plants carried out at 15.12 ha as per the plantation figures reported in Annual return 2023-24. Violation issued under Rule 11(1) of MCDR 2017.
6h	Compliance on reclamation	Yerranadri (YRD)	During the fiscal	Violation issued

	and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	& Jaladikolla (JLK) pits, Total area-4.4 ha.	year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha.	under Rule 11(1) of MCDR 2017.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	Yerranadri (YRD) & Jaladikolla (JLK) pits, Total area-4.4 ha.	During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha.	Violation issued under Rule 11(1) of MCDR 2017.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	Nil	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposal	Nil	Nil
6o	Compliance of	No proposal		Nil

	Rehabilitation of waste land within lease (iii) Method of rehabilitation		Nil	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed in Core and Buffer Zone.	Environmental monitoring has been carried out as per proposal in core and buffer zone as per the proposal. Environmental monitoring report of Mar-24 verified during inspection (Air, Water, Noise etc.). All parameters within limit.	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	<p>i)For the year 2023-24 a total plantation of 80,000 nos. of plants proposed, 75,000 nos. of plants proposed at dumps/avenue/barren area at 30 ha & 5000 nos. of plants proposed for Gap plantation in safety zone. It is observed that plantation of only 56,420 nos. of plants carried out at 15.12 ha as per the plantation figures reported in Annual return 2023-24. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii)During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>iii)The cumulative plantation figures under "Total no. of trees at the end of the year" under Part-V (5) of AR 2023-24 is not reported correctly. Violation issued under Rule 45(7) of MCDR 2017.</p>		

Mineral Conservation: -

Sl.No	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting for Iron Ore and manganese ore proposed within Lease area	Grade wise sorting done manually with in Lease area for Mn ore and Grade wise sorting done mechanically with in Lease area for Iron ore	Nil
7b	Method of grade-wise mineral sorting i.e. manual or	Manual for Mn Ore and Mechanical for Iron ore	Manual for Mn Ore and Mechanical for Iron ore is done	Nil

	mechanical.			
7c	Different grade of mineral sorted out at mines	<u>In situ grade range for iron ore proposed</u> HIO: > 45 % Fe to 63 % Fe HSIO: 35 % Fe to < 45 % Fe <u>In situ grade range for Manganese ore proposed</u> 10 % Mn to < 42 % Mn	<u>Manganese Ore:</u> Below 25% Mn, 25% to below 35% Mn, 35% to below 46% Mn, 46% and above Mn <u>Iron Ore:</u> Fines Fe 55-58% Fe- 58-60 % Lumps Fe 55-58% Fe 58-60% Fe 60-62%	As reported by Lessee in AR 2023-24.
7d	Any beneficiation process at mines	No proposal	No such beneficiation process carried out in the mines	Crushing, dry screening for Iron Ore, manual sorting of Mn ore from ROM and Screening and grade wise separation carried out
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	i) There is no beneficiation activities carried out inside mine. ii) The mineral conservation activities carried out by the Lessee as per the proposal.		

Environment: -

Sl. No.	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	57,310 m ³ proposed	5,385 m ³ generated	Less top soil generation due to lack of movement of top benches for want for tree cutting permission from Forest Department as reported by Lessee during inspection. Top Soil generated used for afforestation activities at CBG and KMK, Neerkolla pits.
8b	Concurrent use or	57,310 m ³ proposed	5,385 m ³	Less top soil generation

	storage of topsoil		generated	due to lack of movement of top benches for want for tree cutting permission from Forest Department as reported by Lessee during inspection. Top Soil generated used for afforestation activities at CBG and KMK, Neerkolla pits.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed	Separate dumps for overburden maintained	No mineral reject generation for the year 2023-24 as reported by the Lessee in AR 2023-24.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yerranadri (YRD) & Jaladikolla (JLK) pits, Total area-4.4 ha proposed for backfilling with generated waste.	During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha.	Violation issued under Rule 11(1) of MCDR 2017.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yerranadri (YRD) & Jaladikolla (JLK) pits, Total area-4.4 ha proposed for backfilling with generated waste.	During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha.	Violation issued under Rule 11(1) of MCDR 2017.
8f	Baseline information on existence of plantation	Cumulative	35,78,748	The cumulative plantation figures under "To-

	& additional plantation done (Rule 41)	plantation not mentioned.	Cumulative as on 01.04.2024(As reported by Lessee during inspection.	tal no. of trees at the end of the year” under Part-V (5) of AR 2023-24 is not reported correctly. Violation issued under Rule 45(7) of MCDR 2017.
8g	Survival rate	80% proposed within ML are	85% achieved within ML area	As reported by the Lessee in AR 2023-24.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on haul roads to control airborne dust	Water sprinkling is done regularly on haul roads to suppress the dust	23 Nos water tankers of different capacity are deployed. 7KL-6 nos, 9KL-11nos., 12KL-6 nos.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	<p>i)The aesthetic beauty in and around mines area looks very good.</p> <p>ii) During the fiscal year 2023-24, there was a proposal to backfill in Yerranadri (YRD) & Jaladikolla (JLK) pits with total area of 4.4 ha. It is observed that actual backfilling has been carried at KMK pit only over an extent of 2.25 ha. Violation issued under Rule 11(1) of MCDR 20017.</p> <p>iii) The cumulative plantation figures under “Total no. of trees at the end of the year” under Part-V (5) of AR 2023-24 is not reported correctly. Violation issued under Rule 45(7) of MCDR 2017.</p>		

Compliance of Rule 45

SL. No	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November-24 on 09/12/2024. A.R. submitted up to FY 2023-24 on 28.06.2024.	Submitted within timeline.

Sl. No	Item	Details Given in A.R. (Year 2023-24)	Actual in field	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine managers- Shri. Subbukumar Swamy, Karthika S and Shivakumar R C Mining Engineer- Shri. Sunil Kumar G, Geologist-Shri. Rajesh M Katral	Appears to be correct	Mine Managers, Mining Engineer present on date of inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area,	Mining: 440.75 ha Waste dumps: 302.20 ha Infrastructure &	Part-I(General)- The land use (area in ha) as reported in Part-I (12) under 12(ii) i.e.,	Violation issued under Rule 45(7) of MCDR 2017.

	dumps etc.	Roads: 111.46 ha.	Covered under current(O/C) workings have not been reported in accordance with approved land use pattern of the last mine plan document dtd. 10/05/2024	
9d	Scrutiny of Annual return on afforestation	56420 No's saplings are done with 85% Survival rate within ML area. Total no of trees at the end of year- 47957.	The cumulative plantation figures under "Total no. of trees at the end of the year" under Part-V (5) is not reported correctly.	Violation issued under Rule 45(7) of MCDR 2017.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mn Ore: Nil Fe Ore: Nil	Appears to be correct	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Manganese ore: ROM; Opening stock- 30221.680 Tonnes, Production- 283002.421 Tonnes, Closing stock- 45023.420 Tonnes. Iron ore: ROM; Opening stock- 11685.32 Tonnes, Production-1968400 Tonnes, Closing stock- 160522.50 Tonnes.	Appears to be correct	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price Iron Ore Lumps 55-58 : ₹ 5792.00 58-60: ₹ 5773.00 60-62: ₹ 5983.00 Iron Ore Fines 55-58: ₹ 4059.00 58-60: ₹ 3878.00 60-62: ₹ 4220.00 Manganese Ore Below 25% Mn : ₹ 4904.00	Ex mine price appears to be correct. i) Part-III (Consumption of Materials)- i) The Royalty, DMF and NMET figures as reported under Part-III (2.) is not matching with the Royalty, DMF and NMET cost per ton as reported later in Part-	Violation issued under Rule 45(7) of MCDR 2017.

		<p>25% to below 35% Mn: ₹ 8941.00 35% to below 46% Mn: ₹17119.00 46 % and above Mn: ₹28887.00</p> <p>Cost of Production ₹ 1162.16/tonne.</p>	<p>VII (cost of production).</p> <p>ii) Part-II A(Capital Structure): The total depreciation during the year as reported under the para is not matching with the depreciation cost/ton as reported in Part-VII(Cost of production).</p> <p>iii)The Overheads expenses as reported is not matching with the Overhead cost/ton as reported in Part-VII (Cost of Production</p> <p>iv) Part-V (General Geology & Mining): i) The expenditure on exploration as reported in this para is not matching with the exploration cost per ton as reported later in Part-VII (Cost of Production).</p> <p>Part-VII (Cost of Production): The cost of production per tonne under the para is not reported correctly since there is error in reported exploration, overhead, Depreciation, Royalty, DMF and NMET cost per ton</p>	
9i	Scrutiny of Annual return on fixed assets	₹ 497354213 including land, residential, plant and machinery and capitalized expenditure.	Part-II A (Capital Structure): The total depreciation during the year as reported under the para is not matching with the	Violation issued under Rule 45(7) of MCDR 2017.

			depreciation cost/ton as reported in Part-VII(Cost of production)	
9k	Scrutiny of Annual return on mining machineries	Excavator-47 No's (0.8- 1.8 m ³) Wheel loaders-35 No's (1.7-2.6 m ³) Tippers-239 No's (6-20 Cum), Water Tanker-23 No's (7kl-12kl) Drill-13 No's (110 mm) Etc.	Appears to be correct	Nil

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)	13/01/2025	17/03/2025	45(7)	13/01/2025	18/02/2025

संदीप कुमार सिंह. /Sandeep Kumar Singh)
वरिष्ठ सहायक खान नियंत्रक/ Senior Assistant Controller of Mines