MCDR INSPECTION REPORT

General		
SL. No.	Particulars	Details
1	File No.	MCDR-MiFL0FE/29/2023-BBS-IBM_RO_BBS
2	Name of the inspecting officer	Vikram Deshpande, Assistant Controller of Mines
3	Date of inspection	11/01/2025
4	Name of the Mine	Khandbandh Iron Ore Mines
5	Total Lease Area (Ha) with breakup of Non-forest and	35.774 Ha Receive Forest Land, 35.774 Ha
6	Minecode	30ORI08113
7 8	IBM Registration Number under rule 45 of MCDR, 2017 Name of the lessee, Address, phone, email and fax number	IBM/4135/2011 M/s Sree Metaliks Limited SML House, Main Road , Barbil,Odisha-758035 Phone No: 9437075129 Email: md@sreemetaliks.com Fax No: 6767275529
9	Village	Near Village Khandbandh (Baitarani R.F)
10	Taluka/Mandal	Barbil
11	District	Keonjhar
12	Pin code	758034
13	State	Odisha
14	Post office	Khandbandh
15	Nearest police station	Bamebari
16	Nearest Railway station	Jururi
17	Date of Grant of Mining Lease	20.08.2007
18	Date of Execution	11.01.2017
19	Date of opening of Mine	21.03.2018
20	Date of expiry	10.01.2067
21	Name of the Nominated Owner with Address, phone, email fax number and date of appointment	N/A
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Mahesh Kumar Agarwal SML House, Main Road , Barbil,Odisha-758035 Phone No: 9437075129 Email: md@sreemetaliks.com Fax No: 6767275529
23	Name of the Mines Manager with Address, mobile no, email, fax number and date of appointment in mine	Mr. Manoj Kumar At/Po : Khandbandh ; District: Keonjhar, Odisha-758034 Phone No: 90019 94012 Email: smlmines@sreemetaliks.com
24	Name of the Mining Engineer, Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Mining Engineer: Shri Sushil Kumar Gond Qualification: B.Tech in Mining(Second Class Manager Certified Holder); Experience: 11 years Address: At/Po: Khandbandh ; District: Keonjhar, Odisha-758034. Phone No: 9439551837
25	Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Geologist: Sri Amrit Kumar Behera Qualification: M.sc in Applied Geology; Address: At/Po : Joda ; District: Keonjhar, Odisha-758034. Phone No: 7978419414 Email: amritbeherajsp@gmaill.com
26	Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-year period and specific condition in approval letter, if any.	Mining Plan-08.02.2008, 5 Years from the date of opening of the mines. Modification and Review of the Mining Plan- 12.10.2018, Approved for a Period of 3 Years-2018-19 to 2020-21. Modification and Review of the Mining Plan- 23.02.2021, Approved for a Period of 5 Years-2021-22 to 2025-26. Modification and Review of the Mining Plan-04.01.2024, Approved for a Period of 3 Years- 2023-24 to 2025-26.
27	Mineral (s) granted in lease and proved for mining	Mining Plan: - Vide letter No. MP/OTF-MECH/42-ORI/BHU/2007-08 Dt. 08.02.2008 under rule 22 of MCR 1960. Review of Mining Plan:-MPM/FM/26-ORI/BHU/2018-19/1722 ,Dt-

		12.10.2018 Review of Mining Plan:-MRPM/A/47/ORI/BHU/2020-21 ,Dt-23.02.2021 valid up to 31.03.2026 Modification of Review of Mining Plan: MCDR-MiFL0FE/29/2023-BBS-IBM_RO_BBS, Dt-04.01.2024,Valid up to 31.03.2026
28	Method of Mining(Opencast, Underground)	Opencast
	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
29	Captive/Non Captive	Captive Consumption
30	Present EC Capacity	1.8 Million Tons Per Annum

Exploration: ---

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	-	-	
1b	Exploration over lease area for Geological axis 1 or 2.	-	-	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis	-	-	Entire ML area explored under G-1
1e	Balance reserves as on 01.04.2024	As on 1/4/23 reserves as follows: 111-11992186 tonnes 211-6651639 tonnes	As on 1/4/24 reserves as follows: 111-10496446 tonnes 211-6651639 tonnes	AR for 2023-2024
1f	General remarks of inspecting Officer on Geology, exploration etc.	The lease area is a part of the Horse-shoe shaped Singhbhum-Bonai-Keonjhar iron ore belt and eastern limb of the synclinorium. The general lithological succession is as follows: laterite, Lateritic iron ore, Hard and soft laminated iron ore, Shale, BHJ/BHQ. Entire ML area explored under G-1.		

Development:--

CL NI	T.	P 1 (EV 2022 24)		
SL.NO.	Item	Proposals (FY 2023-24)	Actual WOFK	Remarks
2a	Location of development w.r.t. lease area	Quarry-1 E 332330 to E332575 N 2429340 to N 2429650 Quarry-2 E 332650 to E332840 N 2429160 to N 2429315 Quarry-3 E332245 to E332355 N 2429150 to N 2429270	Quarry-1 E 332395 to E332570 N 2429380 to N 2429660 Quarry-2 E 332650 to E332840 N 2429164 to N 2429310	Violation of Rule 11(1) of MCDR 2017 issued to the lessee for not carrying out work in Quarry 3
2b	Separate benches in topsoil, overburden and mineral	Separate benches in overburden and mineral proposed	Separate benches in overburden and mineral made	TOP soil: NIL Overburden-03 Mineral – 10
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.25	No significant change
2d	Quantity of topsoil generation in m3	No topsoil generation proposed during reporting year	No topsoil generated during reporting year.	
2e	Quantity of overburden generation in m3	203557 Cum	183550 Cum	
2f	General remarks of Inspecting Officer on development of pit w.r.t. type	The mining work is being carr MCDR 2017 has been pointed	ied out in 2 number of pits and violation to the lessee for not opening of pit-3.	on of Rule 11(1) of

Exploitation:--

SUNO	Itom	Droposals	A ctual work	Domarka
3L.NO.	item		Actual WOIK	Rellidiks
		(FY 2023-24)		
3a	Number of pits proposed for production	3	2	
		-	_	
3b	Quantity of ROM mineral production	1500024 MT	1405740 MT	
	proposed	1500024 M11	1495740 1011	
3c	Recovery of salable/usable mineral from	00.07 6 1 11 1	00.0/ 6 1 11 1	
	ROM production	90 % from saleable from ore.	90 % from saleable from ore.	
3d	Quantity of mineral reject generation	7200 MT	83970 MT	
3e	Grade of mineral reject generation and	45 to 58 % Fe 45 to 58 %	45 to 58 % Fe 45 to 58 % Fe	
	threshold value declared	Fe		
3f	Quantity of sub-grade mineral generation	Same	as para 3d	
3g	Grade of sub-grade mineral generation	Same	as para 3d	
3h	Manual / Mechanized method adopted	Mechanized Method	Machanizad Mathad adopted for	
	for segregating from ROM	proposed for segregating from	Mechanized Method adopted for	
		ROM	segregating from ROM	
3i	Any analysis or beneficiation study	No analysis or beneficiation	No analysis or beneficiation carried	
	proposed & carried out for sub-grade	proposed for sub-grade	out for sub-grade mineral and reject	
	mineral and reject	mineral and reject	······································	
	inneral and reject	miller and reject		

3j	Provision of drilling & blasting in mineral benches	Drilling & Blasting proposed in mineral benches	Drilling & Blasting carried out in mineral benches	Hole Dia-115 mm, Bench Height- 6 m, Burden-2.5 m, spacing- 3 m, Hole Depth-6m, Staggered drilling pattern Blasting:- Controlled Blasting Using Nonel shock tubes
3k	Provision of mining machineries in mineral benches	Use of HEMM proposed in mineral benches	HEMM deployed in mineral benches	Drills-1no's Excavator-7 no's Dumper-14 no's Wheel Loader-3 no's Dozer-1no's
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	The height of benches has broadly been maintained as per proposals except in Pit-2 where restoration of benches was in progress during inspection.	
3m	Total area covered under excavation/pits	17.16 Ha.	17.16 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.23	1:0.25	
30	Total area put in use under different heads at the end of year	Mining- 17.16 Mineral Storage –2.39 Roads- 0.91 Infrastructure – 1.88 Others-4.47 Total -26.81	Mining- 17.16 Mineral Storage – 2.95 Roads- 0.79 Infrastructure – 1.26 Others- 5.94 Total – 25.150	
Зр	Production of ROM mineral (in Metric Tonnes) during last five-years period, as applicable	2017-18: 144900 tonnes 2018-19: 623233 tonnes 2019-20: 702028 tonnes 2020-21: 702040 tonnes 2021-2022: 1499808 tonnes 2022-2023: 1500004 tonnes 2023-2024: 1500024 tonnes	2017-18 : 42240 tonnes 2018-19 : 613940 tonnes 2019-20 : 699298 tonnes 2020-21 : 530831 tonnes 2021-2022: 701383 tonnes 2022-2023: 1100928 tonnes 2023-2024: 1495740 tonnes	
3q	General remarks of inspecting Officer on method of mining etc	Open-cast fully mechainsed mir as per approved document.	ing method with shovel dumper combi	nation is being carried

Solid Waste Management-Dumping:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB & mineral reject proposed	Separate dumping of OB & mineral reject carried out	
4b	Location of topsoil, OB & mineral reject dumps	TOP SOIL:-NIL OB: Dump – 1(Backfilling) E 332205 – 332335 N 2429460– 2429665 Mineral Reject: E 332405-332610 N 2429165 – 2429250 E 332170-332230 N 2429435 – 2429550	TOP SOIL:-NIL OB: Dump – 1(Backfilling) E 332220 – 332300 N 2429500 – 2429650 Mineral Reject: E 332190-332205 N 2429520 – 2429530	
4c	Number of dumps within lease area and outside lease area	Within Lease Area:1 Outside lease area: Nil	Within Lease Area 1 Outside Lease Area: Nil	
4d	Location of dumps w.r.t. ultimate pit limit	Dump – 1 E 332027 – 332126 N 2429555 – 2429653	Dump – 1 E 332027 – 332126 N 2429555 – 2429653	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilized	1	1	Partially stabilized and dumping is taking place In remaining area.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Retaining Wall:- Maintained	Retaining Wall:- Maintained	Dimensions: 133*1*1 104*1*1 160*1.5*1
4j	Number of settling ponds	No proposal during reporting year	Not made.	2 Existed and maintained

4k	Specific comments of inspecting Officer	
	on waste dump management	Overburden wastes back-filling and mineral reject management are being carried out as per the approved proposals.

Solid Waste Management-Backfilling: --

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Yes	Yes	
5b	Area under backfilling of mined out area	1.42 Ha	1.4 Ha	Total back filled area up to 2024 is 3.160 Ha.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	NIL	Nil	
5d	Total area fully reclaimed & rehabilitated	NIL	Nil	
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Back-filling is being carried out at exh proposals.	hausted part of Pit/Quarry No-1 as per ap	pproved

Progressive Mine Closure Plan: ----

SL.N.	Item	Proposals (FY 2023-24)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2) (Hard copy same provided)	Before 1st July of, 2022-23	Submitted on time	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation	i) 0.75 ii) N/A iii) N/A iv) N/A v) N/A	i) 0.75 ii) N/A iii) N/A iv) N/A v) N/A	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) 1.42 ii) 1.42 iii) Nil iv) Nil v) Nil	i) 0.16 ii) 0.16 iii) Nil iv) Nil v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 864 ii) 0.19Ha iii) Gap Plantation	i) 3000 ii) 0.75 Ha iii) Gap Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone proposed as per MOEFCC and SPCB guidelines.	Environmental monitoring in Core zone and buffer zone was carried out as per the proposals	All parameters are within the limit

Mineral Conservation:---

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area	Grade-wise sorting carried within lease area .	Grade wise sorting within the lease area. 45% to 55% Fe Above 55% Fe
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical method of grade-wise mineral sorting proposed	Mechanical method of grade-wise mineral sorting carried out	
7c	Different grade of mineral sorted out at mines	45% to 55% Fe Above 55% Fe	45% to 55% Fe Above 55% Fe	
7d	Any beneficiation process at mines	No beneficiation process proposed	No beneficiation process carried out	
7e	General remarks of inspecting Officer on mineral conservation & beneficiation issues	Grade-wise soring & dispatches	of ore/mineral was carried out.	

Environment:--

SL.No.	Item	Proposals ((FY 2023-24))	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No such proposal	Not done	
8b	Concurrent use or storage of topsoil	No such proposal	Not done	

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8c	Separate dumps for overburden, waste rock, rejects and fines	TOP SOIL:-NIL OB: Dump – 1(Backfilling) E 332220 – 332300 N 2429500 – 2429650 Mineral Reject: E 332190-332205 N 2429520 – 2429530	Broadly as per the proposals.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back-filling at exhausted part of Pit/Quarry No-1	Broadly as per proposals	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps)	Back-filling at exhausted part of Pit/Quarry No-1	After exhaustion of Quarry-1 backfilling will be done	
8f	Baseline information on existence of plantation & additional plantation done	864	Up to FY 23-24: 3000 Nos of Plantation 2550 Plantation has been done this FY 24-25	
8g	Survival rate		75%	
8h	Water sprinkling on roads to control airborne dust	Water spraying on haul roads, waste dumps and maintaining the approach road proposed	Water spraying on haul roads, waste dumps and approach road carried out	750mtrs of permanent fixed type water sprinkler & Two Nos of 16, 12 KL Capacity Water Sprinkler has been deployed for Regular water spraying on haul roads and maintaining the approach road
8i	General remarks of inspecting Officer on aesthetic beauty in & around mines area.	Aesthetic beauty in & around mines area is good as lessee implementing the PMCP proposal and carried out plantation as per the proposals.		

Compliance of Rule 45

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly	The monthly return of the Dec-2024 was submitted on		
	and Annual returns	09.01.2025 and the annual returns of 2023-24 submitted on		
C N	Itom	29.06.2024.	A stual in field	
5.IN.	Item Scrutiny of Annual roturn for	Details Given in A.R.	Actual In field	
90	information on Mining Engineer	Manoi Kumar	Manoi Kumar	
	Geologist and Manager	Mining Engineer: Shri	Mining Engineer: Shri	
		Sushil Kumar Gond	Sushil Kumar Gond	
		Geologist: Shri Amrit	Geologist: Shri Amrit	
		Kumar Behera	Kumar Behera	
9c	Scrutiny of Annual return on land	Mining- 17.16	Appears to be correct	
	use pattern for area under pits,	Mineral Storage – 2.95		
	reclaimed area, dumps etc.	Roads- 0.79		
		Ω		
		Total $= 25.150$		
9d	Scrutiny of Annual return on	2000 trace	Appears to be correct	
	afforestation	3000 fiees	Appears to be correct	
9e	Scrutiny of Annual return on	02070 ·		
	mineral reject generation (Grade &	83970 tonnes, 55% Fe	Appears to be correct	
Qf	Scrutiny of Annual return on ROM	Fines closing stock		
51	stock and/or graded ore	in tonnes		
		51%-55%- 580.266		
		55%-58% - 2945.663		
		58%-60%- 59.466		
		60%-62% - 4917.303		
		62%-65%-2159.760		
		05% and above- 10.000		
		CLO stock in tonnes		
		<62% Fe (clo any size)-	Appears to be correct	
		1463.866		
		62%-65% Fe (5-18mm)-		
		102.656		
		62 to 65% Fe and above(10-		
		40mm)- 13.500		
90	Scrutiny of Annual return on sale		Appears to be correct as it is	
5	value. Ex. Mine price & production	Cost of production & Ex.	a	
	cost	Mine price : ₹ 1525.42	captive mine	
9i	Scrutiny of Annual return on fixed	₹ 118532356	Appears to be correct	
01	assets	D 1 II (1050) 1		
9K	Scrutiny of Annual return on	васк ное (1.850cum) : 1	Observed to be correct	
	mining machineries	Back Hoe (1.5 cum) • 1		
		nos :		
		Back Hoe (1.1 cum) : 5		

	nos; Front End Loader(3.2 cum): 1nos; Truck:14 nos; Water tanker: 4nos; Crusher: 1 nos:	
	Crusher: 1 nos; Dozer: 1nos	
