#### MCDR-MiFL0FE/2/2022-RCH-IBM\_EZ

#### **INDIAN BUREAU OF MINES**

## MINES CONTROL AND CONSERVATION OF MINERAL DIVISION MCDR INSPECTION REPORT

#### **Ranchi Regional Office**

Mine code: 30BHR27017

Mine file No: MCDR-MiFL0FE/2/2022-RCH-IBM\_EZ

Date of Inspection: 19.07.2024

1.0 GENERAL

1/38738/2024

SN	Particulars	Details
1	Name of the Mine	Dhobil Iron Ore Mines, Manoharpur Ore Mines, BSL,
		M/s. Steel Authority of India Ltd.
2	Total Lease Area (Ha) with breakup of Non-forest and	Forest Land – 513.036 Ha. ;Non-Forest Land-0.00
	forest land	Total Lease Area- 513.036 (Ha)
3	Mine Code	Mines Code – 30BHR27017
4	IBM Registration Number under rule 45 of MCDR, 1988	Registration No IBM/5662/2011
5	Name of the lessee, Address, phone, email and fax	Steel Authority of India Limited; Ispat Bhawan, Lodi
	number	Road ;New Delhi- 110003
		Fax No 011-24368779;Ph:011-24363358
		Email: chairman.sail@sailex.com
6	Village	Chiria
7	Manoharpur	Manoharpur
8	District	West Singhbhum
9	Pincode	833106
10	State	Jharkhand
11	Post office	Chiria
12	Nearest police station	Manoharpur
13	Nearest Railway station	Manoharpur
14	Date of Grant of Mining Lease	08.03.1948
15	Date of Execution	21.04.2018 Last Executed
16	Date of opening of Mine	08.03.1948
17	Date of first Renewal, if applicable and its period &	08.03.1978. Period 20 years from 08.03.1978 to
	expiry	07.03.1998.
18	Date of second Renewal, if applicable and its period &	08.03.1998. Period 20 years from 08.03.1998 to
10	expiry	07.03.2018.
19	Date of submission of renewal application if Mining	Not Applicable
20	Operations are continuing under deemed extension	Cl. D. 1 IV T
20	Name of the Nominated Owner with Address, phone,	Shri Birendra Kumar Tiwari
	email, fax number and date of appointment	Director in Charge, Bokaro Steel Plant, , Bokaro, M/s. SAIL; Jharkhand, PIN-827001
		Contact No. 8895500173
		Date of Appointment: 20.04.2024
		Email: <u>bsl.director@sail.in</u>
21	Name of the Mine Agent with Address, phone, email, fax	Shri Kamal Bhasker;
	number and date of appointment	Chief General Manager (Mines)
		Manoharpur Ore Mines, PO- Chiria, West Singhbhum,
		Jharkhand- 833213;Ph. No. 8895502967
		Date of Appointment: 01.01.2022
		Email: momchiria@gmail.com
22	Name of the Mines Manager with Address, phone, email,	Sri Ravi Ranjan, GM (Mining)
	fax number and date of appointment in mines	PO:Chiria, West Singhbhum,
		Jahakhand-833106, Ph:8986881261,
		E mail ID : momchiria@gmail.com
20	N Cd Mil E C C C C	Date of appointment: 18.01.2019
23	Name of the Mining Engineer, Qualification and total	Sri R K Patri, AGM (L&L),
	experience with Address, phone, email, fax number and	PO:Chiria, West Singhbhum,
	date of appointment in mine	Jahakhand-833106, Ph:8986881636,
		E mail ID :momchiria@gmail.com
		Date of appointment:18.01.2019

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	SN	Particulars	Details
1/38	248/	Whether Geologist and Mining Engineer appointed in	Yes; Dr R K Naik, DGM (Geology),
1/ 50	,, 50, 1	mines satisfy the rule 42 & carrying out their duties as	PO:Chiria, West Singhbhum,
		per rule 43 & 44.	Jahakhand-833106, Ph:8895504068,
			E mail ID: momchiria@gmail.com
			Date of appointment:14.11.2014
	25 Date of Approval of Mining Plan/Modified Mining Plan		RMP & PMCP Approved by IBM Vide Ref:
	with five-year period and specific condition in approval		RAN/WSB/Fe/MP-10/2021-22, Dated:15.11.2021 for the
	letter, if any.		period (01.04.22 to 31.03.2027)
			No specific conditions
	26	Date of Approval of Scheme of Mining/Modified	Not Applicable
		Scheme of Mining with five-year period and specific	
		condition in approval letter, if any.	
	27	Mineral(s) granted in lease and proved for mining	Iron Ore (Hematite)
	28	Method of Mining (Opencast, Underground)	Opencast
	29	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
	30	Captive/Non Captive	Captive

**Scientific Mining**: Compliance of proposals of approved mining plan/Scheme of mining. : 2022-23 to 2026-27

### **Exploration**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	23 nos of Boreholes with 2558.50 meterage	Backlogs of previous year was done in reporting yr.
1b	Exploration over lease area for Geological axis 1 or 2.	Yes	G1 level exploration completed.	Found correct.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	M/s Gemcokati Exploration Pvt Ltd. & Expenditure - 2.00 Crores
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	As per approved Proposal
1e	Balance reserves as on 01.04.2024	10.357 MT	11.692 MT	As on 01.04.21 reserves were 12.6 MT
1f	General remarks of inspecting officer on geology, exploration etc.	Lessee has satisfactorily done progress in the area of Exploration.		

#### 2.0 DEVELOPMENT

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease	At 628, 622, 616, 610	At 628, 622, 616, 610	As per approved
	area	mRL	mRL	Proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	No Topsoil available
2c	Stripping ratio or ore to OB ratio	Nil	1:0.088	As per Approved RoMP
2d	Quantity of topsoil generation in m3	Nil	Nil	As per Approved RoMP
2e	Quantity of overburden generation in m3	Nil	43307.83	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Satisfactory work ha	s been done in the area of c	levelopment of mine.

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SN 8738/2	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	01	01	As per Approved RoMP
3b	Quantity of ROM mineral production proposed	745000 Te	491139.87 Te	Almost 65% achievement has been made
3c	Recovery of saleable/usable mineral from ROM production	745000 Te	491139.87 Te	Almost 65% achievement has been made
3d	Quantity of mineral reject generation	Nil	Nil	As per Approved RoMP
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	As per Approved RoMP
3f	Quantity of sub-grade mineral generation	Nil	Nil	As per Approved RoMP
3g	Grade of sub-grade mineral generation	Nil	Nil	As per Approved RoMP
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanized	Manual & Mechanized	As per Approved RoMP
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Specific	No Specific	As per Approved RoMP
3j	Provision of drilling & blasting in mineral benches	Drill hole of 100 mm dia by wagon drills provided with Wet Drilling facility.  Blasting is done by using slurry explosives and Nonnel fuses detonators. Spacing and burden in OB & ore benches are 3 m and 2.5 m respectively.	wagon drills. Drills equipped with Wet Drilling arrangement.  Blasting is done by using slurry explosives (Special blast 83mm	As per Approved RoMP
3k	Provision of mining machineries in mineral benches	Proposed	Done	As per Approved RoMP
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtr	6 mtr	As per Approved RoMP
3m	Total area covered under excavation/ pits	20.82 Ha	20.82 Ha	As per Approved RoMP
3n	Ore to OB ratio for the pit/mine during the year	Nil	1:0.088	
30	Total area put in use under different heads at the end of year	29.411 На	29.411 На	As per Approved RoMP
3p	Production of ROM mineral during last five-year period, as applicable	Year Prod. (Te) 2019-20 749858 2020-21 749359 2021-22 749278 2022-23 749900 2023-24 745000	Year Prod. (Te) 2019-20 733794.93 2020-21 553841.03 2021-22 75251.75 2022-23 341182.29 2023-24 491139.87	Almost 65% achievement has been made
3q	General remarks of inspecting officer on method of mining etc.	Lessee was unable to predocument.	oduce the mineral quanti	ty as per approved RoMP

# MCDR-MiFL0FE/2/2022-RCH-IBM\_EZ 4.0 SOLID WASTE MANAGEMENT-DUMPING

<b>/SIN</b> /	2 <b>(1<i>e</i>m</b>	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	OB dump:2	As per Approved RoMF
4b	Location of topsoil, OB & mineral	Topsoil: Nil	Topsoil: Nil	
	reject dumps	OB dump: 1) North	OB dump:	
	3	West Corner, 2) North	1) North West Corner,	
		side of quarry	2) North side of quarry,	A a man A managard Da MI
		3) Fines Dump - North	3) Fines Dump - North	As per Approved RoMF
		West side,	West side, 4) Sub grade	
		4) Sub grade dump -	dump - Southern side	
		Southern side	_	
4c	Number of dumps within lease area	WML: 4	WML: 4	A A 1 D . MT
	and outside lease	OML :Nil	OML :Nil	As per Approved RoMF
4d	Location of dumps w.r.t. ultimate pit	N2462930- 2463000	N2462930- 2463000	As per Approved RoMP
	limit (Rule 16)	E-322120-322190	E-322120-322190	
	, ,	630-634 MSL	630-634 MSL	
4e	Number of active & alive dumps	01	01	As per Approved RoMP
4f	Number of dead dumps	02	02	As per Approved RoMP
4g	Number of dumps stabilised	02	02	As per Approved RoMP
4h	Whether Retaining wall or garland drain all along dumps	Yes	Yes	As per Approved RoMP
4i	Length of Retaining wall or garland	Nil.	Old retaining walls are	Total 325 mts concrete
	drain all along dump		repaired & maintained	retaining wall & 765 mt length boulder retaining wall was provided at the bottom of dumps.
4j	Number of settling ponds			02 Nos of settling ponds
J	81	-	02	have been made for extr precautions
4k	Specific comments of inspecting	Satisfactory work has be	en made in the area of so	1.1
	officer	dumping		•

#### 5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not Applicable	No proposal for the reporting year
5b	Area under backfilling of mined out area	No proposal	Not Applicable	No proposal for the reporting year
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	0	0	As per Approved RoMP
5d	Total area fully reclaimed & rehabilitated	Not Applicable	Not Applicable	No proposal for the reporting year
5e	General remarks of inspecting officer on backfilling, reclamation etc	U I	en exhausted in respect o ation has not been done ye	f iron ore minerals hence et

## MCDR-MiFL0FE/2/2022-RCH-IBM\_EZ 6.0 PROGRESSIVE MINE CLOSURE PLAN

#### 1/38788/2024 **Proposals** Item **Actual work** Remarks (2023-24)(2023-24)ба Whether Annual report on PMCP June every year Submitted through As per Approved RoMP submitted on time and correctly - Rule vide letter reference 23E (2). Details should be given in the no. MOM/IBM/5/223, format as given in Annexure-20. dated 27.06.2024 Management of worked/mined out No proposal Not Applicable proposal 6b for the reporting year benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year 6c Compliance on reclamation and No proposal Not Applicable proposal for the rehabilitation by backfilling reporting year i) Voids available for backfilling (L X BXD) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water v) Any other specific means Compliance of Rehabilitation of waste 6d No proposal Not Applicable proposal the for land within lease reporting year i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation From 1<sup>st</sup> April 2024 Air, Compliance Environmental бе of Air, noise, Air, noise, water water water is being monitoring monitoring (core zone & buffer zone) monitoring monitoring on on through NABL accredited lab monthly basis monthly basis by by on monthly basis and noise on quarterly basis. Manoharpur Manoharpur Ore Ore a) Air monitoring 6 Stations Mines and Mines and half half in core zone and 4 in yearly by a NABL yearly by a NABL buffer zone b) Water monitoring at 4 certified laboratories certified laboratories Stations (under Jharkhand (under Jharkhand Noise monitoring at 9 State Pollution State Pollution Stations Control Board) Control Board) General remarks of inspecting officer 6f Satisfactory work has been made in the area of progressive mine closure on PMCP compliance & progressive plan by the lessee.

#### 7.0 MINERAL CONSERVATION

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Fe>55%	Lump (62-65%)- 160135.180, Lump (65% & Above)- 19994.370, Fines (62-65%)- 311010.320)	As per Approved RoMP
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual & Mechanical	Manual & Mechanical	As per Approved RoMP

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		HEBITI	THE LOT L/L/LOLL INC	<u> </u>	
	7c	Different grade of mineral sorted out at	Fe>55%	Lump (62-65%) -	As per Approved RoMP
/38	738/2	mines 024		160135.180,	
, 50	7 307 1			Lump (65% & Above)	
				-	
				19994.370,	
				Fines (62-65%) -	
				311010.320	
	7d	Any beneficiation process at mines	No proposal	Not Applicable	No proposal for the
		-			reporting year
	7e	General remarks of inspecting officer	Satisfactory work has be	on made in the area of m	ineral conservation by the
		on Mineral conservation &		ten made in the area of in	illeral colliservation by the
		beneficiation issues	lessee.		

#### 8.0 ENVIRONMENT

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not Applicable	No proposal for the reporting year
8b	Concurrent use or storage of topsoil	0	0	As per Approved RoMP
8c	Separate dumps for overburden, waste	Topsoil: Nil	Topsoil: Nil	As per Approved RoMP
	rock, rejects and fines (Rule 33)	OB dump: 1) North	OB dump: 1) North	
		West Corner, 2) North	West Corner, 2) North	
		side of quarry, 3) Fines	side of quarry, 3) Fines	
		Dump - North West	Dump - North West	
		side, 4) Sub grade	side, 4) Sub grade	
		dump - Southern side	dump - Southern side	
8d	Use of overburden, waste rock, rejects	No proposal	Not Applicable	No proposal for the
	and fines dumps for restoring the land			reporting year
	to its original use			
8e	Phased restoration, reclamation and	No proposal	Not Applicable	No proposal for the
	rehabilitation of lands affected by			reporting year
	mining operations (Pits, dumps etc)			
8f	Baseline information on existence of	650 saplings	Plantation within ML	WML: 550; Violation
	plantation & additional plantation done		area – 550 nos,	issued in this regard.
			Outside ML area – 100	
			nos	
8g	Survival rate	60%	60%	As per Approved RoMP
8h	Water sprinkling on roads to control	Wet drilling, water	Wet drilling, water	As per Approved RoMP
İ	airborne dust	sprinkling on roads	sprinkling on roads	
		and Dust generating	and Dust generating	
		areas	areas	
8i	General remarks of inspecting officer	Lessee has planted 550	saplings and has done wa	ter sprinkling in the mine
	on aesthetic beauty in and around	for control of fugitive of	dust control. It sustains th	ne aesthetic beauty in and
	mines a	around mines		•

#### 9.0 COMPLIANCE OF RULE 45

SN	Item	COMN	COMMENTS	
9a	Status of submission of Monthly and	Monthly Return submitt	ed up to: June 2024	
	Annual returns	Annual Return submitted	Annual Return submitted for FY: 2023-24	
SN	Item	Details given in A.R.	Observation of I/O	Remarks
9b	Scrutiny of Annual return for	Mining Engineer:	Mining Engineer:	
	information on Mining Engineer,	Shri R. K. Patri	Shri R. K. Patri	As per submitted annual
	Geologist and Manager	Geologist:	Geologist:	return 2023-24. Annual
		Dr. R. K. Naik	Dr. R. K. Naik	Return submitted on
		Manager:	Manager:	25.06.2024,found correct
		Shri Ravi Ranjan	Shri Ravi Ranjan	

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9c	Scrutiny of Annual return on land use	Pit: 20.82 Ha.	Pit: 20.82 Ha.	As per submitted annual
38738/	mattern for area under pits, reclaimed area, dumps etc.	Dump: 1.89 Ha. Infrastructure: 1.1 Ha. Other purpose (Sub grade, Fines stack &	Dump: 1.89 Ha. Infrastructure: 1.1 Ha. Other purpose (Sub grade, Fines stack &	return 2023, found correct
		afforestation): 5.601 Ha. Total: 29.411 Ha.	afforestation): 5.601 Ha. Total: 29.411 Ha.	
9d	Scrutiny of Annual return on afforestation	650 Nos.	650 Nos.	As per submitted annual return 2023, found correct
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	As per submitted annual return 2023, found correct
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- 138156.270 Te, Production-491139.870 Te, Dispatch-491139.870 Te, Closing Stock- 138156.270 Te	Opening Stock- 138156.270 Te, Production-491139.870 Te, Dispatch- 491139.870 Te, Closing Stock- 138156.270 Te	As per submitted annual return 2023, found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price: 3897.37	Ex-mine price: 3897.37	As per submitted annual return 2023,,found correct
9i	Scrutiny of Annual return on fixed assets	Rs. 5115885333	Rs. 5115885333	Verified from asset register
9k	Scrutiny of Annual return on mining machineries	<ol> <li>Backhoe-03</li> <li>Blast Hole Drill-01</li> <li>Dumper-60</li> <li>Crusher-02,</li> <li>Water Tanker-01,</li> <li>Front End Loader-04</li> </ol>	1. Backhoe-03 2. Blast Hole Drill-01 3. Dumper-60 4. Crusher-02, 5. Water Tanker-01, 6. Front End Loader-04	As per Approved RoMP

- 10 Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
  - 1. Earlier pointed out violation: Rule 26(1) dated 25.06.24 on; complied
  - 2. Violation pointed out in the current inspection is as under: Nil.

(Vikas Kumar), Asst. Controller of Mines, Indian Bureau of Mines- Ranchi