## 1/38736/2024

# $MCDR\text{-}MiFLOFE\text{/}1\text{/}2022\text{-}RCH\text{-}IBM\_EZ}$

# INDIAN BUREAU OF MINES

# MINES CONTROL AND CONSERVATION OF MINERAL DIVISION MCDR INSPECTION REPORT

### **Ranchi Regional Office**

Mine code: 30BHR27010

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

Date of Inspection: 18.07.2024

#### 1.0 GENERAL

Fax No 011-24368 Email: chairman.sai  6 Village Gua  7 Taluka/Mandal Jagannathpur	756 Ha. 00 443.756 (Ha)
Total Lease Area (Ha) with breakup of Non-forest and forest land    Mine Code    IBM Registration Number under rule 45 of MCDR, 1988    Name of the lessee, Address, phone, email and fax number    Name of Village    Village    Total Lease Area - 1443. Non-Forest Land - 1	756 Ha. 00 443.756 (Ha) ndia Limited Road New Delhi- 110003
forest land  forest land  Non-Forest Land-0. Total Lease Area-1.  Mine Code  IBM Registration Number under rule 45 of MCDR, 1988  Name of the lessee, Address, phone, email and fax number  Name of the lessee, Address, phone, email and fax number  Steel Authority of In Ispat Bhawan, Lodi Fax No 011-24368 Email: chairman.sai  Village  Gua  Taluka/Mandal  Jagannathpur	00 443.756 (Ha) ndia Limited Road New Delhi- 110003
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3Mine Code30BHR270104IBM Registration Number under rule 45 of MCDR, 1988IBM/5662/20115Name of the lessee, Address, phone, email and fax numberSteel Authority of Ir Ispat Bhawan, Lodi Fax No 011-24368 Email: chairman.sai6VillageGua7Taluka/MandalJagannathpur	ndia Limited Road New Delhi- 110003
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4 IBM Registration Number under rule 45 of MCDR, 1988 IBM/5662/2011 5 Name of the lessee, Address, phone, email and fax number Ispat Bhawan, Lodi Fax No 011-24368 Email: chairman.sai 6 Village Gua 7 Taluka/Mandal Jagannathpur	Road New Delhi- 110003
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number Ispat Bhawan, Lodi Fax No 011-24368 Email: chairman.sai  6 Village Gua  7 Taluka/Mandal Jagannathpur	Road New Delhi- 110003
Fax No 011-24368 Email: chairman.sai  6 Village Gua  7 Taluka/Mandal Jagannathpur	
6 Village Gua 7 Taluka/Mandal Jagannathpur	
7 Taluka/Mandal Jagannathpur	1@sailex.com
8 District West Singhbhum	
9 Pincode 833213	
10 State Jharkhand	
11 Post office Gua	
12 Nearest police station Gua PS	
13 Nearest Railway station Gua	
14 Date of Grant of Mining Lease 22.02.1949	
15 Date of Execution 09.03.1970	
16 Date of opening of Mine 1919 (Manual minir	ng before independence of India)
Date of first Renewal, if applicable & its period & expiry 22.02.1979 - 21.02.2	•
Date of 2nd Renewal, if applicable & its period & expiry 22.02.2009-21.02.20	•
19 Date of submission of renewal application if Mining 08.02.2008	,
Operations are continuing under deemed extension	
	wari; Director,(In-Charge)
email, fax number and date of appointment  Bokaro Steel Plant,	Bokaro, M/s. SAIL
Jharkhand, PIN-827	7001; Contact No. 8895500173
Date of Appointmer	nt: 20.04.2024
Email: bsl.director@	<u>®sail.in</u>
Name of the Mine Agent with Address, phone, email, fax Kamal Bhaskar; Ch	nief General Manager (Mines)
number and date of appointment Gua Ore Mines, PO	- Gua, West Singhbhum,
Jharkhand- 833213;	Ph. No.8986881568/06596-
Date of Appointmen	
Email: <u>kamalbhaske</u>	
	anager, GM (Mines & E&L)
fax number and date of appointment in mines  Gua Ore Mines, PO	
West Singhbhum, Jl	
Ph. No. 9477702013	
Date of Appointmer	
Email: dassankarpra	
	M (Min), AIME (Min.).
experience with Address, phone, email, fax number and Appointment: May-	
date of appointment in mine Email: dgmguamine	es@gmail.com
Whether Geologist and Mining Engineer appointed in Yes, Dr. T.C. Anance	da. DGM (Geo)
mines satisfy the rule 42 & carrying out their duties as Appointment: March	
per rule 43 & 44. Email: tcanand@gm	
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	SN	Particulars	Details
1/38	25 736/1	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approved Review of Mining Plan for Plan Period 2024-25 to 2028-29 vide letter no. RAN/West Singhbhum/Fe/ROMP-7/2023-24 dated: 06.02.2024
	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.		NA
	27	Mineral(s) granted in lease and proved for mining	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. - 2024-25 to 2028-29

## **Exploration**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks	
1a	Backlog of previous year	Nil	Nil		
1b	Exploration over lease area for Geological axis 1 or 2.	167	49	Total 8535.0 meterage of core drilling exploration has been done within 361.295 Ha area .The total 635.986 Ha area has been explored at Geological axis of 1 & 2 however updating of reserve/resource has been done yet.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	No proposal was envisaged in approved document	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	No proposal was envisaged in approved document	
1e	Balance reserves as on 01.04.2024	179.65 MT	175.49 MT	As on 01.04.2024 with respect to approved RMP. Reserve and resource together are 185.23 MT (+45% Fe). Reserve is 175.49 MT & Resource is 9.74 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	area .The total 635.986 Ha	Total 8535.0 meterage of core drilling exploration has been done within 361.295 Ha area .The total 635.986 Ha area has been explored at Geological axis of 1 & 2 however updating of reserve/resource has been done yet.		

### 2.0 DEVELOPMENT

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	OT Hill: 790-650 mRL, 2 <sup>nd</sup> Level: 730-680 mRL, Bai-Hill - 850-800 mRL, Rajaburu- 720-670 mRL Darbarburu- 830-790 mRL	OT Hill: 790-663 mRL, Bai-Hill SW- 850-830 mRL 2 <sup>nd</sup> Level: 730-680 mRL, Rajaburu- 720-670 mRL Darbarburu- 830-790 mRL	Less development has been achieved by lessee which is gross violation of Rule 11(1).
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	As per Approved RoMP Document
2c	Stripping ratio or ore to OB ratio	1.99	2.28	Slight Variation on higher end observed
2d	Quantity of topsoil generation in m3	Nil	Nil	As per Approved RoMP Document

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1/38	723%/2	<b>Qu</b> antity of overburden	23,63,169	9,10,521.00	38% achievement done
		generation in m3			w.r.t approved quantity
	2f General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.		Lessee has not fully devel	oped the mines as per the appr	oved RoMP document.

#### **3.0 EXPLOITATION**

SN	Item	Propo (2023			Actual (2023		Remarks
3a	Number of pits proposed for production	08	}		0	4	Within the approved proposal
3b	Quantity of ROM mineral production proposed	9400000.0 Te			415986	51.0 Te	As on 31.03.2024
3c	Recovery of saleable/usable mineral from ROM production	1,25,00,0	00.0 Te		42,22,75	66.20 Te	33% achievement w.r.t approved poropsal, which is a gross violation of Rule11(1).
3d	Quantity of mineral reject generation	0.0	0		0.0	00	As per approved proposal
3e	Grade of mineral reject generation and threshold value declared	0.0	0		0.0	00	As per approved proposal
3f	Quantity of sub-grade mineral generation	0.0	0		0.0	00	As per approved proposal
3g	Grade of sub-grade mineral generation	0.0	0		0.0	00	As per approved proposal
3h	Manual / Mechanised method adopted for segregating from ROM	Mecha	nised	Mechanised		nnised	As per approved proposal
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Proposed		Under process for scientific results.			Under process for scientific results.
3j	Provision of drilling & blasting in mineral benches	Proposed		Don	ie		As per approved proposal
3k	Provision of mining machineries in mineral benches	Propo	osed		Do	ne	As per approved proposal
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10	)		1	0	As per approved proposal
3m	Total area covered under excavation/ pits	196.	72		184	4.0	Within the approved proposal
3n	Ore to OB ratio for the pit/mine during the year	1.9	9		2.2	28	Slight Variation on higher end observed
30	Total area put in use under different heads at the end of year	360.21 Ha			277.5	4 Ha	Within the approved proposal
3p	Production of ROM mineral during last five-year period, as applicable	Year  2019-20 2020-21 2021-22 2022-23 2023-24	Prod. (MT) 5.97 6.03 6.85 4.90 9.40	2 2 2	Year 2019-20 2020-21 2021-22 2022-23 2023-24	Prod. (MT) 3.69 3.11 4.14 3.96 4.16	Approx 44.25% achievement made w.r.t Mining Plan which is a gross violation of Rule 11(1).

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3q General remarks of inspec	eting Lessee has not exploited the approved mineral for the year 2023-24. Approx.
1/38736/2024 of method of mini	ng 44.25% of the mineral has been produced.
etc.	

### **4.0 SOLID WASTE MANAGEMENT-DUMPING**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Nil	Nil	As per approved proposal
4b	Location of topsoil, OB & mineral reject dumps	Nil	Nil	As per approved proposal
4c	Number of dumps within lease area and outside lease	02	02	As per approved proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N1800-N2000 - (O.T. Hill) N400-N600- (Ranichua)	N1800-N2000 - (O.T. Hill) N400-N600- (Ranichua)	As per approved proposal
4e	Number of active & alive dumps	02	02	As per approved proposal
4f	Number of dead dumps	-	-	As per approved proposal
4g	Number of dumps stabilised	02	02	As per approved proposal
4h	Whether Retaining wall or garland drain all along dumps	Yes	Yes	As per approved proposal
4i	Length of Retaining wall or garland drain all along dump	Retaining wall -393m Garland drains-393m.	Retaining wall -405m Garland drains-400m.	Found Satisfactory
4j	Number of settling ponds	02	09	Found Satisfactory
4k	Specific comments of inspecting officer	Lessee has satisfactorily performing.	ormed in the area of Solid was	

### **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	Nil	Nil	As per approved proposal
5b	Area under backfilling of mined out area	Nil	Nil	As per approved proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	As per approved proposal
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	As per approved proposal
5e	General remarks of inspecting officer on backfilling, reclamation etc	No working pit has been exhausted in respect of iron ore minerals hence backfilling and rehabilitation has not been done yet.		

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### **6.0 PROGRESSIVE MINE CLOSURE PLAN**

7 <b>S</b> N/	2024 Item	Proposals (2023-24)	Actual work (2023-24)	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.	Yes	Yes, submitted on time	As per approved proposal
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 vi) Cost incurred on watch & care during the year	i) Nil ii) 2.1 iii) 3100 iv) 11800 v) No vi)1000000	i. Nil ii. 2.4 iii. 3150 iv. 14650 v. No vi. 8400000	Cost incurred on watch & care during the year data is non-exclusive and contain all the related activities (such as nursery, watch and care of jhilingburu etc.) of this mine along with other associated mine.
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	NA	NA	As per approved proposal
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	As per approved proposal
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air Quality-Quarterly Water Quality- Quarterly Noise Level- Quarterly	Air Quality-03 Water Quality-04 Noise Level- 04	As per approved proposal
6f	General remarks of inspecting officer on PMCP compliance & progressive	Lessee has satisfactorily per	formed in the area of progress	ive mine closure plan.

#### 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	Yes	Yes	As per approved proposal
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Yes, Mechanical	Yes, Mechanical	As per approved proposal
7c	Different grade of mineral sorted out at mines	Yes	Yes	As per approved proposal

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	7d	Any beneficiation pro	cess	Yes	NA	As per approved		
1/38	736/2	2024 mines				proposal		
	7e	General remarks inspecting officer Mineral conservation beneficiation issues	of on &	Lessee has satisfactorily perfor	med in the area of mineral con	servation.		

### **8.0 ENVIRONMENT**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks	
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	As per approved proposal	
8b	Concurrent use or storage of topsoil	Nil	Nil	As per approved proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	As per approved proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	As per approved proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	As per approved proposal	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Saplings to be planted - 3150	Saplings to be planted - 3150	As per approved proposal	
8g	Survival rate	70%	75%	Found Satisfactory	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Found Satisfactory	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Lessee has planted 3150 sapling in the mine area. Water sprinkling on roads to control airborne dust has been done by the lessee. This sustains the aesthetic beauty in and around mines.			

#### 9.0 COMPLIANCE OF RULE 45

SN	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted up to: June 2024 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 information on Mining Engineer, Geologist and Manager	Mining Engineer: C.N. Kumar Geologist: Dr. T.C. Ananda Manager: S.P. Das	Mining Engineer: C. N. Kumar Geologist: Dr. T.C. Ananda Manager: S.P. Das	As per available records, found satisfactory
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 184.0 Ha. Dump: 22.69 Ha. Infra: 17.692 Ha. Green Belt: 53.160 Ha. Total: 277.542 Ha.	Pit: 184.0 Ha. Dump: 22.69 Ha. Infra.: 17.692 Ha. Green Belt: 53.160 Ha. Total: 277.542 Ha.	As per available records, found satisfactory

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9d 1/38736/	Scrutiny of Annual return 2024 afforestation	WML: 3150 Nos.	WML: 3150 Nos.	As per available records, found satisfactory
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	As per available records, found satisfactory
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Open Stock- 1747497.06 T Production- 4222756.20 T Dispatch- 3830953.40 T Closing Stock- 2139299.86 T There is no separate stock for graded ore.	Open Stock- 1747497.06 T Production- 4222756.20 T Dispatch- 3830953.40 T Closing Stock- 2139299.86 T There is no separate stock for graded ore.	As per available records, found satisfactory
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price: 2831.75	Ex-mine price: 2831.75	As per available records, found satisfactory
9i	Scrutiny of Annual return on fixed assets	Rs. 2375056156	Verified from the asset register and found correct.	Verified from the asset register and found correct.
9k	Scrutiny of Annual return on mining machineries	1.Shovel-05 2. Backhoe-03 3. Dumper-09 4. Tipper-Nil 5.Rock Drill-04 6.Air Compressor-06 7. Crusher-04 8. Dozer-06	1.Shovel- 05 2. Backhoe-03 3. Dumper-09 4. Tipper-Nil 5.Rock Drill-04 6.Air Compressor-06 7. Crusher-04 8. Dozer-06	As per available records, found satisfactory

- 10 Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
  - 1. Earlier pointed out violation: Rule 45(7) dated 12.07.24 Status- Pending.
  - 2. Violation pointed out in the current inspection are as under:
    - a. Rule 12(4B): Geological Study Report prepared in the manner specified in the Minerals (Evidence of Mineral Contents) Rules, 2015, within three months after the completion of the exploration work has also not been submitted.
    - b. Rule 11(1): It was proposed to develop 790-650 mRL in OT Hill, 850-800 mRL in Bai-Hill but 790-663 mRL in OT Hill and 850-830 mRL in Bai-Hill have been developed.
    - c. Rule 11(1): It was proposed to produce 9.40 MioT for the year 2023-24 but only 4.16 MioT has been produced which is only 44.25% of the approved proposal.
    - d. Rule 11(1): Recovery of saleable/usable mineral from ROM production was proposed to be 1,25, 00,000 T however only 42,22,756.20 Te has been achieved which is only 33% of the approved proposal.