

INDIAN BUREAU OF MINES

--:-- Inspection Report --:--

Part-I : General Information

1.1.1 Mine Details

Name of the Mine :	BARSUA 30ORI13001	Lease Area (Ha) :	2558.581
Forest Area (Ha) :	2420	Mine Code :	30ORI13001
Registration Number :	IBM/5662/2011	Name of lessee :	STEEL AUTHORITY OF INDIA LIMITED (SAIL)
Address of lessee :	ISPAT BHAWAN, ,LODI ROAD, NEW DELHI	Phone of lessee :	0112-4367105
Email of lessee :	Envrmd@gmail.com	Fax Number :	N/A
Village :	Tantra	Taluka / Mandal :	Koida
District :	Sundargarh	Pincode :	110003
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	Barsua
Date of Grant of Mining Lease :	2024-11-26	Date of Mining Lease Execution :	2024-11-14
Date of opening in the mine :	1960-06-01		

Nominated Owner Details			
Name of the Nominated Owner :	Mr Anirban Dasgupta	Nominated Owner Address:	BHILAI STEEL PLANT, BHILAI, DURG, CHHATTISGARH
Nominated Owner Mobile :	7882862001	Nominated Owner Email :	Bsp.director@sail.in
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	2019-06-01
Mining Engineer Details			
Name of the Mining Engineer :	Shri Santosh Kumar	Qualification of Mining Engineer :	B. E (Mining)
Address of Mining Engineer :	At/PO- Tensa, Block- Koira, Dist. Sundargarh, Odisha-770042	Phone of Mining Engineer :	8986881534
Email of Mining Engineer :	Santoshkumar71@sail.in	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2019-02-16		
Geologist Details			
Name of the Geologist :	Shri Harihara Sahu	Qualification of Geologist :	M. Sc. (Geology)
Address of Geologist :	At/Po. Tensa, Block- Koira, Dist.-Sundargarh, Odisha-770042	Phone of Geologist :	8895502456
Email of Geologist :	Hariharasahu@sail.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2024-04-20		
Mine Manager Details			
Name of the Mine Manager :	Shri Purna Chandra Barua	Qualification of Mine Manager :	B.Tech. Engg. (Mining)
Address of Mine Manger :	At/PO- Tensa, Block: Koira, Dist. Sundargarh, Odisha 770042	Phone of Mine Manger :	8895502359

Email of Mine Manger :	Purnachandrabarua@sail.in	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2023-03-23		
Mineral(s) granted in lease and proved for mining :	IRON ORE	Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period :	N/A
Method of mining :	Open Cast	Category :	MECHANISED
Nature of Use :	Captive		

Part-II : Other Information

2.1.1 : Inspection Details

Inspecting Officer :	SHRINIVAS BUDIME
Designation :	ASSISTANT CONTROLLER OF MINES
Name of the Accompanying Official from Mine :	1. Shri P C Barua 2. Shri S Kumar 3. Shri D K Dubey 4. Shri H Sahu 5. Shri A Naik 6. Shri K K Singh 7. Shri M K Majhi 8. Shri K Shankar
Designation of the Accompanying Official :	1. GM(Mining) 2. DGM(Mining) 3. DGM(Mining) 4. DGM (Geology) 5. AGM (Env) 6. Dy. Manager (Survey) 7. Dy. Manager (Geology) 8. Dy. Manager (Geology)
Type of Inspection :	MCDR,STR
Date of Inspection :	17/10/2025
Review year considered for MCDR Inspection :	2024-2025

2.2.1 : Exploration Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of Core Boreholes	Nil	Nil	Nil	No Violation	Nil	Nil
2	Number of DTH Boreholes	Nil	Nil	Nil	No Violation	Nil	Nil
3	Number of exploratory pits / trial pits	Nil	Nil	Nil	No Violation	Nil	Nil
4	Number of exploratory Trenches	Nil	Nil	Nil	No Violation	Nil	Nil
5	Lateral exploration status for the lease area	G1	428.230	Nil	Nil	No Violation	Nil
6		G2	203.900	Nil	Nil	No Violation	Nil
7		G3	82.759	Nil	Nil	No Violation	Nil
8		G4	339.480	Nil	Nil	No Violation	Non-mineralized area: 619.087 Ha (G1-26.57, G2-170.278, G3-82.759 & G4-339.480)
9	UNFC category wise reported Resources/Reserves as per MP/MMP ROMP	As on 30.06.2024 111: 121: 192.580 122: 9.220 211: 221: 5.860 222:	As on 01.04.2025 111: 121: 190.860 122: 9.220 211: 221: 5.860 222:	Nil	No Violation	Nil	Nil

	Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)	0.050 Total: 207.710	0.050 Total: 205.990				
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2.3.1 : Development - Opencast Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Location of development w.r.t. lease area	Area -3 308400E-309150 E 2419400N-242 0250N Area-5 308450E-308650 E 2417700N-241 8150N	Area -3 308400E-309150 E 2419400N-242 0250N Area-5 308450E-308650 E 2417700N-241 8150N	Nil	No Violation	Nil	Nil
2	Quantity of overburden generation in m3	776650	874931.65	-98281.650	No Violation	The backlog in the year 2023-2024 has been completed in the year 2024-2025. Hence, no violation issued.	Nil
3	Quantity of topsoil generation in m3	38050	0	38050.000	Rule 11(1)	The proposed topsoil generation for 2024-2025 was 38,050 m ³ , whereas no topsoil was generated during	Nil

						the year, showing a 100% shortfall. This deviation is not as per the approved mining plan.	
4	Stripping ratio : ore to OB ratio	1:0.195	1:0.409	Nil	No Violation	Nil	Nil

2.4.1 Exploitation - Opencast Mine Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of pits / Blocks proposed for production	2 Pits Area-3 Area-5	2 Pits Area-3 Area-5	Nil	No Violation	Nil	Nil
2	Quantity of ROM mineral production proposed (in T)	3999693	2136904	1862789.000	Rule 11(1)	During FY 2024-25, it was proposed to produce ROM mineral of 3,999,693 T, against which only 2,136,904 T was achieved, resulting in a deviation of -1,862,789 T (-46.55%) from the approved	Nil

						proposal. This shortfall indicates non-compliance with the approved mining plan and has affected the planned production schedule.	
3	Recovery of salable/usable mineral quantity from ROM production in T)	2917815	2136904	780911.000	No Violation	Nil	Nil
4	Quantity of mineral reject/Sub-grade generation	1081878	453340	628538.000	No Violation	Nil	Nil
5	Grade of mineral reject/sub-grade generation as per threshold value declared	Grade: Fe>45 to <57% Threshold: Fe-45%	Grade: Fe>45 to <57% Threshold: Fe-45%	Nil	No Violation	Nil	Nil
6	Manual/Mechanised method adopted for segregating subgrade/mineral rejects from ROM	Mechanised	Mechanised	Nil	No Violation	Nil	Nil
7	Whether height of benches in Overburden& mineral suitable for method of mining proposed in mining plan	10 m Bench height is proposed	10 m Bench height is Maintained	Nil	No Violation	Nil	Nil
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Not Done	Nil	No Violation	Nil	Nil

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2.4.3 : Exploitation - Dump Working Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of dumps proposed for production	Not Proposed	Not Done	Nil	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	Nil	Nil	Nil	No Violation	Nil	Nil
3	Recovery of salable/usable mineral from dump production (in Tonne)	Nil	Nil	Nil	No Violation	Nil	Nil
4	Production from dump(s) during the year	Nil	Nil	Nil	No Violation	Nil	Nil
5	Quantity of mineral reject generation	Nil	Nil	Nil	No Violation	Nil	Nil
6	Grade of mineral reject generation and threshold value declared	Nil	Nil	Nil	No Violation	Nil	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	Nil	Nil	Nil	No Violation	Nil	Nil
8	Manual / Mechanized method adopted for dump working	Nil	Nil	Nil	No Violation	Nil	Nil

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2.5.1 : OB/Waste Dumps Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37)	Dumping of mineral reject in BSD- 2&4 and dumping of waste in BWD-10	Dumping of mineral reject in BSD- 2&4 and dumping of waste in BWD-8 and Backfill-1 in Area-3 east side	Nil	No Violation	Nil	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Waste Dumps: BWD-8: 2418516 N-2419433N 308406E to 308741E BWD-10 In Area-3 3092056E -309638E 242012 3N-2420589N Mineral Reject Dumps: BSD-1 3 09298E-309378E 2419814N-24196 42N BSD-2 3084 60E-308664E241 8211N-2418484N BSD-2&4 308204 E-308414E24178 10N-2418100N BSD-3 308206E-308288E2419124 N-2419228N BSD-5 309290E-309358E2420039 N-2420083N BSD-7 308618E-	No Top Soil generated for the year 2024-2025. Waste Dumps: BWD-8: 2419500 N-2420100N 308970E to 309192E - Mineral Reject Dumps: BSD-1 3 09298E-309378E 2419814N-24196 42N BSD-2 3084 60E-308664E241 8211N-2418484N BSD-2&4 308204 E-308414E24178 10N-2418100N BSD-3 308206E-308288E2419124 N-2419228N BSD-5 309290E-309358E2420039 N-2420083N BSD-7 308618E-308786E2418912	Nil	No Violation	Nil	Nil

308786E2418912 N-2418584N BSD-9 308876E- 309036E2419404 N-2419562N Tailings: Easting:- 307240 E Northing:- 2418330 NWaste Dumps: BWD-8: 2419500N-24201 00N 308970E to 309192E - Mineral Reject Dumps: BSD-1 3 09298E-309378E 2419814N-24196 42N BSD-2 3084 60E-308664E241 8211N-2418484N BSD-2&4 308204 E-308414E24178 10N-2418100N BSD-3 308206E- 308288E2419124 N-2419228N BSD-5 309290E- 309358E2420039 N-2420083N BSD-7 308618E- 308786E2418912 N-2418584N BSD-9 308876E- 309036E2419404 N-2419562N Tailings: Easting:- 307240 E Northing:- 2418330 N--Entire Waste was dumped in	N-2418584N BSD-9 308876E- 309036E2419404 N-2419562N Tailings: Easting:- 307240 E Northing:- 2418330 N
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		Backfill-1 in Area-3 pit.					
3	Number of active & Inative dumps	Waste Dump: 1 no. (Active) i.e., BWD-10.	Waste Dump: 1 no. (Active) i.e., BWD-10.	Nil	No Violation	Nil	Nil
4	Number of dead dumps	Nil	Nil	Nil	No Violation	Nil	Nil
5	Number of dumps proposed for stabilished	Nil	Nil	Nil	No Violation	Nil	Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Nil	Nil	Nil	No Violation	Nil	Nil

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2.6.1 : Solid Waste Management - Backfilling (Opencast) Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Backfilling co-ordinates N24072 50-N2407440/ E336260-E33664 0 (Top RL 770, Bottom RL 720)	Nil	No Violation	Nil	Nil
2	Year-wise area under backfilling of mined out area	2021-22: 7.884 2022-23: 1.872 2023-24: Nil 2024-25: Nil	2021-22: 2.000 2022-23: 2.500 2023-24: 1.000 2024-25: 0.098	Nil	No Violation		Nil
3	Year-wise topsoil generation, Utilization and Stored proposal (in m3)	Proposed for the year 2024-2025:- 38050 m3	0	38050 m3	No Violation	Nil	Nil
4	Total area fully reclaimed & rehabilitated	Nil	Nil	Nil	No Violation	Nil	Nil
5	Locations of proposed reclamation & rehabilitated	Nil	Nil	Nil	No Violation	Nil	Nil

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2.7.1 : Progressive Mine Closure Plan (PMCP) Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Compliance on reclamation and rehabilitation by backfilling/Other means Total area and numbers of plantation proposed.	No Valid proposal for the year 2024-2025 No Valid proposal for the year 2024-2025	Nil	Nil	No Violation	Nil	Nil
2	Rehabilitation by making water reservoir	No Valid proposal for the year 2024-2025	Nil	Nil	No Violation	Nil	Nil
3	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Nil ii) Nil iii) Nil	i) Nil ii) Nil iii) Nil	Nil	No Violation	Nil	Nil
4	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of AAQ, Water quality and noise level to be carried out through a recognized environmental consultant.	Monthly & quarterly monitoring of AAQ, water quality and noise level are being carried out.	Nil	No Violation	Nil	Nil

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2.8.1 : Mineral Conservation Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	ROM Mineral dispatch or grade-wise sorting within lease area	Grade Range 58-60 % Fe 60-62 % Fe 62-65 % Fe	Grade Range 58-60 % Fe 60-62 % Fe 62-65 % Fe	Nil	No Violation	Nil	Nil
2	Different grade of mineral sorted out at mines	Grade Range 58-60 % Fe 60-62 % Fe 62-65 % Fe	Grade Range 58-60 % Fe 60-62 % Fe 62-65 % Fe	Nil	No Violation	Nil	Nil
3	Any beneficiation process at mines	Yes	1.Crushing & Screening 2.Scrubber 3.Classifier 4.Jigging Plant 5.Hydrocyclone 6. Thickner	Nil	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	1081878 tons with 50% blending.	453340 tons during ROM stage	Nil	No Violation	Nil	Nil

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2.9.1 : Environment Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Separate removal and utilization of topsoil	38050 m3	0	38050 m3	No Violation	Nil	Nil
2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Valid proposal for the year 2024-2025	Backfilling area 5.598 Ha. In Area-3 pit	Nil	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Valid proposal for the year 2024-2025	Nil	Nil	No Violation	Nil	Nil
4	Plantation & Survival rate	No Valid proposal for the year 2024-2025	Nil	Nil	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Water sprinkling tanker shall be used in haulage road for dust suppression	Regular sprinkling is being done with 2 x 28 KL mobile water tankers.	Nil	No Violation	Nil	Nil

2.10 : Annual Return Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
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1	Submission of Online Monthly and Annual returns in prescribed period or not	Monthly returns under Rule 45(5)(b)(i) of MCDR 2017 by 10th day of every month. Annual return in Form G1 to be submitted under Rule 45(5)(c)(i) of MCDR 2017 by 1st July of every year.	M.R. Submitted up to September, 2025. A.R. Submitted up to financial year 2024-25 on 19.06.2025.	Nil	No Violation	Nil	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Information on Mining engineer, Geologist and Manager of the mine shall be furnished.	Information on Mining engineer, Geologist and Manager of the mine has been furnished. MM- P C Barua ME- Santosh Kumar MG- Harihara Sahu	Nil	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	NIL	Nil	Nil	No Violation	Nil	Nil
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	Nil	Nil	Nil	No Violation	Nil	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	Nil	Nil	Nil	No Violation	Nil	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	-	ex-mine price is Rs.1871.00/- per Tonne.	Nil	No Violation	Nil	Nil

2.11 : SDF Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Start Ratings accorded for mine during last 3 years	2022-23: 3* 2023-24: 4* 2024-25: 4*	2022-23: 3* 2023-24: 4*	Nil	No Violation	Nil	Nil

Part-III : Other Reports**3.1.1 : Upload Other Reports**

S.N.	Reports File	Remark File Description
1	Nil	Nil

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Part-IV : Summary Details

4.1 : Summary of Violations

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Development - Opencast : Quantity of topsoil generation in m3	38050	0	38050.000	Rule 11(1)	The proposed topsoil generation for 2024–2025 was 38,050 m ³ , whereas no topsoil was generated during the year, showing a 100% shortfall. This deviation is not as per the approved mining plan.	Nil
2	Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)	3999693	2136904	1862789.000	Rule 11(1)	During FY 2024-25, it was proposed to produce ROM mineral of 3,999,693 T, against which only 2,136,904 T was achieved, resulting in a deviation of -1,862,789 T (-46.55%) from the approved proposal. This shortfall indicates	Nil

						non-compliance with the approved mining plan and has affected the planned production schedule.	
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Esigned by: SHRINIVAS BUDIME
Date: 05/11/2025 11:13:19 AM