

# INDIAN BUREAU OF MINES

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

### Part-I : General Information

#### 1.1.1 Mine Details

Name of the Mine :	KALTA	Lease Area (Ha) :	2558.581
Forest Area (Ha) :	2420	Mine Code :	30ORI13006
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 :	Kalta	Taluka / Mandal :	Koida
District :	Sundargarh	Pincode :	110003
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	2024-11-26	Date of Mining Lease Execution :	2024-11-14
Date of opening in the mine :	Nilsss		

<b>Nominated Owner Details</b>			
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
<b>Mining Engineer Details</b>			
Name of the Mining Engineer :	Shri A.K. Mishra	Qualification of Mining Engineer :	B. Tech. In Mining Engineering With MBA (HRM)
Address of Mining Engineer :	Kalta Iron Mine, SAIL At- Kalta Iron Mine, Po- Kalta Dist.- Sundargarh (Odisha) Pin- 770052	Phone of Mining Engineer :	8986881502
Email of Mining Engineer :	Kimkalta@rediffmail.com	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2021-04-21		
<b>Geologist Details</b>			
Name of the Geologist :	Ms. Aindrila Chanda	Qualification of Geologist :	Integrated M.Sc. Applied Geology (IIT, Kharagpur)
Address of Geologist :	Kalta Iron Mine, SAIL At- Kalta Iron Mine, Po- Kalta Dist.- Sundargarh (Odisha) Pin- 770052	Phone of Geologist :	8895503018
Email of Geologist :	Aindrilachanda@sail.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2024-06-19		
<b>Mine Manager Details</b>			
Name of the Mine Manager :	Shri A.K. Mishra	Qualification of Mine Manager :	B. Tech. In Mining Engineering With MBA

			(HRM)
Address of Mine Manger :	Kalta Iron Mine, SAIL At- Kalta Iron Mine, Po- Kalta Dist.- Sundargarh (Odisha) Pin- 770052	Phone of Mine Manger :	8986881502
Email of Mine Manger :	Kimkalta@rediffmail.com	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2021-04-21		
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 :	ROHITA SETHI
Designation :	ACOM
Name of the Accompanying Official from Mine :	Shri A.K. Mishra, Ms. Aindrila Chanda, & Shri J. K. Mishra
Designation of the Accompanying Official :	Mines Manager & Mining Engineer (Kalta Iron Mine), Geologist (Kalta Iron Mine), Surveyor (Kalta Iron Mine)
Type of Inspection :	MCDR,STR
Date of Inspection :	17/09/2025
Review year considered for MCDR Inspection :	2024-2025

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**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		No Proposal	None	Nil	No Violation	Nil	Nil
2	Number of DTH Boreholes		No Proposal	None	Nil	No Violation	Nil	Nil
3	Number of exploratory pits / trial pits		No Proposal	None	Nil	No Violation	Nil	Nil
4	Number of exploratory Trenches		No Proposal	None	Nil	No Violation	Nil	Nil
5	Lateral exploration status for the lease area	G1	162.401 ha	179.65 ha	Nil	No Violation	Entire potential mineralized area has not been explored under G1 level of exploration; however, the Lessee has proposed to carry out th entire mineralized area under G1 level of exploration vide this office RMP approval letter No. RMP 2317/2024-25/ IBM_RO_BBS dated 26/12/2024.	Nil

6		G2	0	30.78 ha	Nil	No Violation	Nil	Nil
7		G3	0	0	0.000	No Violation	Nil	Nil
8		G4	174.069ha	126.04 ha	Nil	No Violation	Nil	Nil
9	UNFC category wise reported Resources/Reserves as per MP/MMP ROMP  Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)	As on 30.06.2024 121-92.31MT 122-4.39MT 221-4.24MT 222-0.19MT	As on 30.06.2024 121-89.79MT 122-4.39MT 221-4.24MT 222-0.19MT	Balance Reserve and resource reported incorrectly in the submitted annual return for the year 2024-25	No Violation	Violation pointed out in AR Chapter	Nil	

### 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	Block-A: 315000E to 315850 E 243030N to 2431450N Block-C: 316400 E to 317250 E, 2432300 N to 2433350 N	Block-A: 315000 E to 315850 E 243030N to 2431450N Block-C: 316400 E to 317250 E, 2432300 N to 2433350 N	Nil	No Violation	Nil	Nil
2	Quantity of overburden generation in	240030	361159	During the year	Rule 11(1)	50% more waste	Nil

	m3			2024-25, the waste of 361159Cum has been generated against the proposal of 240030Cum. It is observed that the actual generation of waste is 50.46% more than the proposed waste.		has been generated against the proposed waste.	
3	Quantity of topsoil generation in m3	34700	35200	Nil	No Violation	Nil	Nil
4	Stripping ratio : ore to OB ratio	1:0.069	1:0.10	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 Blocks (Block-A & Block-C)	2 Blocks (Block-A & Block-C)	Nil	No Violation	Nil	Nil
2	Quantity of ROM mineral production proposed (in T)	3999045.8	3436500	For the Year 2024-25, It is observed that the actual ROM	Rule 11(1)	Less production quantity has been achieved against the proposed	Nil

				<p>production of 3436500 tonnes including Mineral Reject (+45 to -57% Fe-400640tonnes) has been carried out against the proposal of 3999045.8tonnes of ROM production including Mineral Reject (+45 to -57% Fe-400232tonnes) . Hence, it is observed that only 85.93% ROM production quantity has been achieved.</p>		production.	
3	Recovery of salable/usable mineral quantity from ROM production in T)	3598813.8	3035860	562953.800	No Violation	Nil	Nil
4	Quantity of mineral reject/Sub-grade generation	400232	400640	Nil	No Violation	Nil	Nil
5	Grade of mineral reject/sub-grade generation as per threshold value declared	Mineral reject Grade: Fe >45 to <57% Threshold: Fe 45%	Mineral reject 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	Manual & Mechanized	Manual & Mechanized	Nil	No Violation	Nil	Nil
7	Whether height of benches in Overburden& mineral suitable for	6 m Bench Height is proposed	6 m Bench Height is maintained	Nil	No Violation	Nil	Nil

	method of mining proposed in mining plan						
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	None	Nil	No Violation	Nil	Nil

#### 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	6	6	0.000	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	0	0	0.000	No Violation	As per the approved Modification mining plan vide letter no. dated M P/A/39-ORI/BH U/2020-21 dated 01.04.2021 total 605397tonnes of low-grade fines available. Lessee has not furnished the details of year wise handling. No such particular year mentioned for rehandling the	Nil

						said fines in the approved Mod. of MP.	
3	Recovery of salable/usable mineral from dump production (in Tonne)	NA	NA	NA	No Violation	NA	Nil
4	Production from dump(s) during the year	NA	NA	NA	No Violation	NA	Nil
5	Quantity of mineral reject generation	NA	NA	NA	No Violation	NA	Nil
6	Grade of mineral reject generation and threshold value declared	NA	NA	NA	No Violation	NA	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	No Proposal	None	Nil	No Violation	NA	Nil
8	Manual / Mechanized method adopted for dump working	Mechanized	None	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)	Topsoil (0.65 HA) OB KWD-11(7 HA) & KWD-12(15 HA)	Topsoil(0.65 HA) OB KWD-11(7 HA) & KWD-12(15 HA)	Nil	No Violation	Nil	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Topsoil (From 316888E, 2432582N To 316823E, 2432471N) KWD 11(From 316579E, 2431977N To 316920E, 2432419N	Topsoil (From 317080E, 2432505N To 317166E, 2432542N) KWD 11(From 316554 E,2431898N To 316895E, 2432340N)	Nil	No Violation	Nil	Nil
3	Number of active & Inative dumps	2(Active)	01	Nil	No Violation	Nil	Nil
4	Number of dead dumps	Nil	Nil	Nil	No Violation	Nil	Nil
5	Number of dumps proposed for stabilished	No Proposal	Nil	Nil	No Violation	Nil	Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	No Proposal	Nil	Nil	No Violation	Nil	Nil

**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	Nil	Nil	No Violation	Minerals not exhausted in the pit completely.	Nil
2	Year-wise area under backfilling of mined out area	No Proposal	Nil	Nil	No Violation	Nil	Nil
3	Year-wise topsoil generation, Utilization and Stored proposal (in m3)	2022-23:7250 2023-24:18700 2024-25: 34700	Generation: 2022-23:6230 2023-24:17390 2024-25: 35200 Utilized: 2022-23:2000 2023-24:17390 2024-25:35200	Nil	No Violation	Nil	Nil
4	Total area fully reclaimed & rehabilitated	No Proposal	Nil	Nil	No Violation	Nil	Nil
5	Locations of proposed reclamation & rehabilitated	No Proposal	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 Proposal	None	Nil	No Violation	Nil	Nil
2	Rehabilitation by making water reservoir	No Proposal	None	Nil	No Violation	Nil	Nil
3	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	None	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 and 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	45%Fe to 57% Fe and >57%Fe	58% to below 60% Fe 60% to below 62% Fe 62% to below 65% Fe 65% and above Fe	Nil	No Violation	Nil	Nil
2	Different grade of mineral sorted out at mines	45%Fe to 57% Fe and >57%Fe	58% to below 60% Fe 60% to below 62% Fe 62% to below 65% Fe 65% and above Fe	Nil	No Violation	Nil	Nil
3	Any beneficiation process at mines	No beneficiation process proposed	No beneficiation process	Nil	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	Blending at ROM Stage	400640 Tonnes of mineral reject has been blended with high grade	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	Fully utilization	Removal: 35200 m3 Utilization: 35200 m3	Nil	No Violation	Nil	Nil
2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	None	Nil	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	None	Nil	No Violation	Nil	Nil
4	Plantation & Survival rate	No Proposal	210 nos. Survival rate:90%	Nil	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Water sprinkling tanker is routinely used in haulage road for dust control.	Regular water sprinkling is being done with 12 KL, 16 KL mobile water tankers.	Nil	No Violation	Nil	Nil

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**2.10 : Annual Return Details**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Submission of Online Monthly and Annual returns in prescribed period or not	Monthly returns under Rule 45(5)(b)(i) of MCDR2017 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.	Annual return and all monthly returns for the reporting year are submitted within the stipulated time period.	Nil	No Violation	Nil	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Shri A.K. Mishra, Mining Engineer, Ms. Aindrila Chanda, Geologist	Appears to be correct	Nil	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	To be submitted correctly	Balance reserve and resource have not been reported correctly in annual return submitted for the year 2024-25	On scrutiny of the annual return submitted under Rule 45(5)(c)(ii) of MCDR 2017 for the year 2024-25 the following deficiencies were observed. Item-2 of Part V (General Geology & Mining): The	Rule 45(7)	Balance reserve and resource have not been reported correctly in annual return submitted for the year 2024-25	Nil

				details of Mineral Reserves and Resources estimated for Iron ore at the end of the year has not been reported correctly as per the last approved document after depleting the production from the Reserve part achieved subsequently up to 31/03/2025.			
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	NA	NA	NA	No Violation	NA	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	To be submitted with in the stipulated time period	All Notices and Returns for the reporting year have been submitted with in the stipulated time period.	NA	No Violation	NA	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Captive Mines, Rs.2137.00	Appears to be correct	NA	No Violation	Nil	Nil

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**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	NA	2021-22 : 81.33% (4 STAR) 2022-23: 83.04% (4 STAR) 2023-24: 87.08% (4 STAR)	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

**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 overburden generation in m3	240030	361159	During the year 2024-25, the waste of 361159Cum has been generated against the proposal of 240030Cum. It is observed that the actual generation of waste is 50.46% more than the proposed waste.	Rule 11(1)	50% more waste has been generated against the proposed waste.	Nil
2	Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)	3999045.8	3436500	For the Year 2024-25, It is observed that the actual ROM production of 3436500 tonnes including Mineral Reject (+45 to -57% Fe-400640tonnes) has been carried out against the proposal of 3999045.8tonnes of ROM production including Mineral Reject (+45 to -57%	Rule 11(1)	Less production quantity has been achieved against the proposed production.	Nil

				Fe-400232tonnes) . Hence, it is observed that only 85.93% ROM production quantity has been achieved.			
3	Annual Return : Whether incomplete or false or wrong returns submitted (Rule 45(7))	To be submitted correctly	Balance reserve and resource have not been reported correctly in annual return submitted for the year 2024-25	On scrutiny of the annual return submitted under Rule 45(5)(c)(ii) of MCDR 2017 for the year 2024-25 the following deficiencies were observed. Item-2 of Part V (General Geology & Mining): The details of Mineral Reserves and Resources estimated for Iron ore at the end of the year has not been reported correctly as per the last approved document after depleting the production from the Reserve part achieved subsequently up to 31/03/2025.	Rule 45(7)	Balance reserve and resource have not been reported correctly in annual return submitted for the year 2024-25	Nil

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Esigned by: ROHITA SETHI  
Date: 17/10/2025 11:45:32 AM