

MCDR INSPECTION REPORT**General**

SL. No.	Particulars	Details
1	Name of the Mine	Kalta Iron Mine
	Name of Inspecting Officer with Designation	Shri Sujit Kumar Jena, JMG, 09.11.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Kalta Iron Mine(ML-139 ) is having an area of 25.981 Ha (Forest land =25.981 Ha., Non-forest land = Nil)
3	Minecode	30ORI 13060
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/5662/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Steel Authority of India Ltd. Sri Atanu Bhowmick Director-in-charge Rourkela Steel Plant, SAIL Rourkela, 769011. Email: rsp.coc@gmail.com Fax: 0661-2511072
6	Village	Kalta
7	Taluka/Mandal	Koira
8	District	Sundargarh
9	Pincode	770052
10	State	Odisha
11	Post office	Kalta
12	Nearest police station	Koira
13	Nearest Railway station	Barbil
14	Date of Grant of Mining Lease	17.01.1975
15	Date of Execution	Original Lease Deed : 17.01.1975
16	Date of opening of Mine	17.01.1975
17	Date of expiry	16.01.2025
18	Name of the <b>Nominated Owner</b> with Address, phone, email, fax number and date of appointment	Sri Atanu Bhowmick Director-in-charge Rourkela Steel Plant, SAIL Rourkela,769011. Email: rsp.coc@gmail.com Fax:0661-2511072 DoA: 11.02.2022
19	Name of the <b>Mine Agent</b> with Address, phone, email, fax number and date of appointment	Shri Himanshu Mishra, Chief General Manager Kalta Iron Mine, SAIL AT- Kalta Iron Mine, PO- Kalta

		Dist- Sundargarh (Odisha) PIN- 770052 e-mail: <a href="mailto:gmoofficebim@gmail.com">gmoofficebim@gmail.com</a> <a href="mailto:kimkalta@rediffmail.com">kimkalta@rediffmail.com</a> <a href="mailto:kaltasailrmd@gmail.com">kaltasailrmd@gmail.com</a> Dt. of Appt. : 02.09.2024 Mob: 9477702024
20	Name of the <b>Mines Manager</b> with Address, mobile no, email, fax number and date of appointment in mine	NA
21	Name of the <b>Mining Engineer</b> , Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Sri A.K. Mishra, B. Tech. in Mining engineering with MBA (HRM), Date of Appointment: 12.01.2019 (M): 8986881502 Email: <a href="mailto:kimkalta@rediffmail.com">kimkalta@rediffmail.com</a>
22	Name of the <b>Geologist</b> , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Smt. Aindrila Chanda Integrated M. Sc. Applied Geology (IIT, Kharagpur) Dist.-Sundargarh(Odisha)-770052. Email-Id: aindrilachanda@sail.in Mob: 8895503018 D.O.A: 19.06.2024
23	Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-year period and specific condition in approval letter, if any.	13.11.2019 (Modification of Mining plan for 2020-21 to 2024-25)
24	Mineral(s) granted in lease and proved for mining	Iron Ore (Hematite)
25	Method of Mining(Open cast, Underground)	Open cast
26	Category (Fully Mechanised, Others or Manual)	A-OTFM
27	Captive/Non Captive	Captive
28	Present EC Capacity	NA

**Exploration:---**

SL. No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Work has not started yet
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	---	---	
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	---	
1e	Balance reserves as on 01.04.2024	As on 01.07.2019 111: --- 121: --- 122: 2,58,736 Total: 2,58,736	As on 01.04.2024 111: --- 121: --- 122: 2,58,736 Total: 2,58,736	

**Development:--**

SL. No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 2433720 to N 2433779 E 317289 to E 317390	---	Work has not started yet
2b	Separate benches in topsoil, overburden and mineral	Nil	---	
2c	Stripping ratio or ore to OB ratio	1 : 0 : 14	0	
2d	Quantity of topsoil generation in m <sup>3</sup>	0	0	
2e	Quantity of overburden generation in m <sup>3</sup>	6942	0	

**Exploitation:--**

SL. No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	01	0	Work has not started yet
3b	Quantity of ROM mineral production proposed in (MT)	49,830	0	
3c	Recovery of salable/usable mineral from ROM production	100%	0	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	Grade: Fe >45 to <58% Threshold: Fe 45%	Grade: Fe >45 to <58% Threshold: Fe 45%	
3f	Quantity of sub-grade mineral generation			
3g	Grade of sub-grade mineral generation	+45-58% Fe	0	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanised	---	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Yes (Physical and Chemical)	Fe varying from 45 to 58 %	
3j	Provision of drilling & blasting in mineral benches	Blast hole diameter: 100mm Blasting is done by slurry explosives with NONEL. Burden: 2.5 m Spacing: 3.0 m	---	
3k	Provision of mining machineries in mineral benches	Excavator Bucket Capacity: 0.9 m <sup>3</sup> Dumper Capacity:	Nil	

		10T		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 6 m Bench Height is proposed	---	
3m	Total area covered under excavation/pits	6.91	0	
3n	Ore to OB ratio for the pit/mine during the year	1:0.02	0	
3o	Total area put in use under different heads at the end of year	Area under Excavation: 6.91ha. Overburden Dump: 0.9 ha. Mineral storage: 0.45 ha. Road: 0.44 Ha Top Soil: 0 ha Infrastructure: 0.002 ha Others(Retaining Wall, Garland Drain, Fencing) 0.9148 Ha Mineral reject storage: 0 Ha Safety Zone to be maintained with plantation: 2.46 ha Undisturb area: 13.905 Total area: 25.981 ha.	Area under Excavation: 6.91 ha. Overburden Dump: 0 ha. Mineral storage: 0 ha. Road: 0.1 Ha Top Soil: 0 ha Infrastructure: 0 ha Others(Retaining Wall, Garland Drain, Fencing) 0 Ha Mineral reject storage: 0 Ha Undisturb area: 18.971 Ha Total area: 25.981 ha	
3p	Production of ROM mineral during <b>last five-years period</b> , as applicable	Proposals	Actual work	
	Year- 2019-20	49,935T	0.00 T	
	Year- 2020-21	49,935T	0.00 T	
	Year- 2021-22	49,544 T	0.00 T	
	Year-2022-23	49,733 T	0.00 T	
	Year-2023-24	49,830 T	0.00 T	

### 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)	OB - 6942 Cu. M.	NA	Work has not started yet
4b	Location of topsoil, OB & mineral reject dumps	Lat- 21 <sup>0</sup> 59' 56.96" to 22 <sup>0</sup> 00' 4.29" Long- 85 <sup>0</sup> 13' 44.55" to 85 <sup>0</sup> 13'45.64"		

4c	Number of dumps within lease area and outside lease area	01	---	
4d	Location of dumps w.r.t. ultimate pit limit	Outside UPL	---	
4e	Number of active & alive dumps	Nil	---	
4f	Number of dead dumps	Nil	---	
4g	Number of dumps stabilized	Nil	---	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	---	
4i	Length of Retaining wall or garland drain all along dump	1.18 K.M. (RW)	---	
4j	Number of settling ponds	02	---	

### 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	No Proposal	Nil	Work has not started yet
5b	Area under backfilling of mined out area	No Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No Proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	

### 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)	As per rule 26(2) of MCDR, 2017, the holder of mining lease shall submit to the competent authority a yearly report as per the format specified by the IBM, before 1 <sup>st</sup> day of July every year setting forth the extent of the protective and rehabilitative works carried out as envisaged	Submitted to IBM vide our Ref. No. KIM/E&L/PMCP/2024-25/75, dated 23.04.2024 for the year 2023-24.	Work has not started yet

		in the approved mine closure plan, and if there is any deviation, reasons thereof.		
6b	<p>Management of worked/mined out benches</p> <p>i) Area available for rehabilitation (ha)</p> <p>ii) Afforestation done (ha)</p> <p>iii) No. of saplings planted during the year</p> <p>iv) Cumulative no. of plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch &amp; care during the year</p>	<p>Nil</p> <p>Nil</p> <p>Nil</p> <p>Not Specified</p> <p>Not Specified</p>	<p>Nil</p> <p>Nil</p> <p>Nil</p> <p>Nil</p> <p>Not Specified</p> <p>Not Specified</p>	
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	<p>Not Specified</p> <p>Not Specified</p> <p>Not Specified</p> <p>Not Specified</p>	<p>Not Specified</p> <p>Not Specified</p> <p>Not Specified</p> <p>Not Specified</p>	
6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	---	---	
6e	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.	

**Mineral Conservation:---**

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Toda RF(Kalta Iron Mine) is a captive mine of M/s SAIL and the ore is used for extraction of Iron & Steel from different steel plants of SAIL.	---	Work has not started yet
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	---	---	
7c	Different grade of mineral sorted out at mines	---	---	
7d	Any beneficiation process at mines	No beneficiation process	No beneficiation process	

**Environment:--**

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	0	---	Work has not started yet
8b	Concurrent use or storage of topsoil	0	---	
8c	Separate dumps for overburden, waste rock, rejects and fines	0	---	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done	250 nos	500 nos of sapling planted	
8g	Survival rate		90%	
8h	Water sprinkling on roads to control airborne dust	---	---	

**Compliance of Rule 45**

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly and Annual returns	AR/MRs submitted on time		
S.N.	Item	<b>Details GIVEN in A.R.</b>	<b>Actual in field</b>	

	Item	As per AR	As Observed	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining engineer, Geologist and Manager of the mine has been furnished.	ME-A K Mishra MG- A Chanda	Work has not started yet
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under (O/C) working- 6.910 ha Occupied by plant, residential, welfare build. & roads-0.100 ha.	----	
9d	Scrutiny of Annual return on afforestation	500 nos of sapling plantation	----	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	----	----	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	---	---	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	----	----	
9i	Scrutiny of Annual return on fixed assets	----	----	
9k	Scrutiny of Annual return on mining machineries	----	----	

Date: 20.02.2025

Sujit Kumar Jena  
Junior Mining Geologist