

## MCDR INSPECTION REPORT

Date of Inspection: 06/11/2024

**General**

S. N.	Particulars	Details
1	Name of the Mine	Siljora Kalimati Iron and Manganese Ore Block
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	713.510 Ha (Forest Land -509.710 Ha, Non-Forest Land - 203.800 Ha)
3	Minecode	40ORI08061
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/23029/2020
5	Name of the lessee, Address, phone, email and fax number	Sri Debabrata Behera 1234/P Govind Prasad, Bomikhal, Rasulgarh, Bhubaneswar State-Odisha, Pin code-751010 Phone No- 06742549944 Fax No- 06742549944 Email- <a href="mailto:dbmines2020@gmail.com">dbmines2020@gmail.com</a>
6	Village	Siljora
7	Taluka/Mandal	Barbil
8	District	Keonjhar
9	Pincode	758086
10	State	Odisha
11	Post office	Siljora
12	Nearest police station	Bamberi
13	Nearest Railway station	Nayagarh
14	Date of Grant of Mining Lease	26.06.2020
15	Date of Execution	27.06.2020
16	Date of opening of Mine	25.07.2020
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Debabrata Behera 1234/P Govind Prasad, Bomikhal, Rasulgarh,Bhubaneswar State-Odisha, Pin code-751010 Phone No- 06742549944 Fax No- 06742549944 Email- <a href="mailto:dbmines2020@gmail.com">dbmines2020@gmail.com</a>

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri D.N. Parida At/Po: Baneikala,Joda Dist-Keonjhar, Pin-758034 State-Odisha Date Of Appointment-07.09.2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Janmejy Mohanta Vill.- Siljora Po- Siljora Dist-Keonjhar Odisha, 758086 Phone No-8480216106 <a href="mailto:jmohanta27@gmail.com">Email- jmohanta27@gmail.com</a> Date of Appointment – 12.05.2021
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mohammad Shahrukh (Mining Engineer) At/Po- Siljora Vill.-Siljora Dist-Keonjhar Odisha,758086 Ph. No.-7656816068 Email-mdshahrukh2025@gmail.com Date of apointment-04.03.2023 Total Experience-2.5years
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Prafulla Kumar Parida, M.Sc (Geology), At/Po- Barbil Dist- Keonjhar Odisha,758035 Ph. No.-9437009087 year of experience-29 years Date Of Apointment-15.04.2022
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes <b><u>Mining Engineer:</u></b> Mohammad Shahrukh(Mining Engineer) At/Po- Siljora Vill.-Siljora Dist-Keonjhar Odisha,758086 Ph. No.-7656816068 <a href="mailto:mdshahrukh2025@gmail.com">Email-mdshahrukh2025@gmail.com</a> Date of apointment-04.03.2023 Total Experience-2.5years <b><u>Geologist:</u></b> Sri Manoranjan Jena Qualification- M.Sc. Geology JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadr sahi, PS- Barbil District- Keonjhar-758035 Phone: +919439964456 Email: <a href="mailto:manoranjan.jena@jsw.in">manoranjan.jena@jsw.in</a>
26	Date of Approval of Mining	• Date of Approval of Mining Plan :11.11.2020

	Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<ul style="list-style-type: none"> <li>Modification of Mining Plan has been approved by IBM vide letter no-BBS/KJR/IRON-MN/2170/MPM/2022-23 dt. 30.06.2022.</li> </ul>
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not Applicable
28	Mineral(s) granted in lease and proved for mining	Iron and Manganese
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Other than Fully Mechanized
31	Captive/Non Captive	Non-Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### Exploration

S. N.	Item	Proposals for,2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	In FY 2022-23, Proposed BH was157.  In FY 2023-24, Proposed BH was82.	Out of 157 BH,76BH has been explored.  Nil	Prior to auction of the lease area, G2 level of exploration was carried out. During this plan period about 76 Boreholes were drilled and all the borehole shows negative results and found non-mineralized zone. Hence further proposed boreholes were not drilled.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	G1- 476.590 Ha. G2- 236.920 Ha. Non Mineralized- 350.120 Ha. Area to be explored- 12.50 Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	No exploration carried out during the reporting year.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	G1- 476.590 Ha. G2- 236.920 Ha. Non Mineralized- 350.120 Ha.	No exploration carried out during the reporting year.

			Area to be explored- 12.50 Ha	
1e	Balance reserves as per latest approved document	NA	Mn-3011671.34 tonne Fe-703697.30tonne	Reserve as on dated 31.01.2024
1f	General remarks of inspecting officer on geology, exploration etc.	Prior to auction of the lease area, G2 level of exploration was carried out. During this plan period about 76 Boreholes were drilled and all drilled boreholes show negative results and the area found non-mineralized zone. Hence further proposed boreholes were not drilled. However, based on the previous inspection carried out by this office already violation letter has issued. So, based on the present inspection, further violation letter is not being issued.		

### Development

S. N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	BLOCK-1 (2421287N-2421531N, 332266E-332440E) BLOCK-2 (2420349N-2420533N, 332554E-332625E, 2419974N-2420166N, 332804-332909E) BLOCK-3 (2420848N-2421129N, 333095E-333265E) BLOCK-4 (2420378N-2420586N, 333036E-333172E) BLOCK-5 (2419783N-2420324N, 333689E-333985E) BLOCK-6(Iron ore) (2418988N-2419102N, 333988E-334283E)	Lessee has partially carried out the development as per the proposal in both iron and Manganese quarries.	Lessee has partially carried out the development as per the proposal in both iron and Manganese quarries. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal for top soil generation. For Mn- No. of benches for Ore-2 No. of benches for OB-27 (for all blocks)	No Proposal for top soil generation. For Mn- BLOCK-2 No. of benches in Ore-1 No. of benches in OB-3	Lessee has partially carried out the development as per the proposal in both iron and Manganese quarries. Based on the field observation, a violation letter

		For Fe- No. of benches for Ore-2 No. of benches for OB-Nil	BLOCK-3 No. of benches in Ore-1 No. of benches in OB-2 BLOCK-4 No. of benches in Ore-1 No. of benches in OB-4 BLOCK-5 No. of benches in Ore-3 No. of benches in OB-10 For Fe- No. of benches in Ore-1 No. of benches in OB-1	under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.
2c	Stripping ratio or ore to OB ratio (Ton:m3)	1:12	1: 8.54	
2d	Quantity of topsoil generation in m3	Nil	Nil	No generation of top soil during the reporting year.
2e	Quantity of overburden generation in m3	2268036 Cum	1299762.68 Cum	Lessee has partially carried out the development as per the proposal in both iron and Manganese quarries. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lessee has partially carried out the development as per the proposal in both iron and Manganese quarries. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.		

### Exploitation

S. N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	6	6	
3b	Quantity of ROM mineral production proposed	Mn-189000 MT Fe-136000 MT	Mn-152081.808 MT Fe-5103.621 MT	Lessee has partially carried out the

				development as per the proposal in both iron and Manganese quarries and could not achieved the targeted proposal during the reporting year 2023-24. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.
3c	Recovery of salable/usable mineral from ROM production	Mn-90%(+25%Mn)	Mn-9.4% (+25%Mn)	Violation already pointed out regarding major variation in grade of Manganese Ore produced in mine on 09.06.2023 during last inspection dated 01.06.2023 and not yet complied so far. Subsequently, the lessee has submitted draft modified MP on 26/03/2024 with up-gradation of low-Grade Manganese Ore reserves/resources and change in grade of Mn-ore and the same has been approved on 26.07.2024.
3d	Quantity of mineral reject generation	Mn-18900 MT (+25%Mn) Fe-122400 MT	Mn-123774.644 MT (+10% to 25%Mn) Fe-NIL	Violation already pointed out regarding major variation in grade of Manganese Ore produced in mine on 09.06.2023 during last inspection dated 01.06.2023 and not yet complied so far. Subsequently, the lessee has submitted

				<p>draft modified MP on 26/03/2024 with up-gradation of low-Grade Manganese Ore reserves/resources and change in grade of Mn-ore and the same has been approved on 26.07.2024.</p> <p>The lessee has partially carried out the development as per the proposal in both iron and Manganese quarries and could not achieved the targeted proposal during the reporting year 2023-24. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.</p>
3e	Grade of mineral reject generation and threshold value declared	<p><b>Mn-</b> Mineral reject is 10%-25% Mn &amp; threshold value is 10% of Mn content</p> <p><b>Fe-</b> Mineral reject is 45-55% Fe &amp; threshold value is 45% of Fe content.</p>	<p><b>Mn-</b> Threshold value is 10% of Mn content</p> <p><b>Fe-</b> Threshold value is 45% of Fe content.</p>	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Segregation (sorting and picking) of ore from ROM by the help of labour.
3i	Any analysis or beneficiation study proposed & carried out	NIL	NIL	

	for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Deep Hole drilling was proposed keeping depth 6.6m, spacing up to 2.5m, burden 2m & blasting was proposed and few rock breakers will be used for hard Ore breaking.	Nonel type detonator is used in the hole of depth 6-9 m with spacing 2.5m and burden 2m for blasting to control noise and for better fragmentation.  The rock breakers is being used for boulder breaking.	
3k	Provision of mining machineries in mineral benches	Deployment of mining machinery is proposed in mineral benches by Shovel Dumper Combination  ROM will be excavated and loaded in the 30T /40T dumper by 2.5 m <sup>3</sup> to 3.2 m <sup>3</sup> excavators.	Deployment of mining machinery are being carried out in mineral benches by Shovel Dumper combination.  ROM is excavated and loaded in the 30T /40T dumper by 2.5 m <sup>3</sup> to 3.2 m <sup>3</sup> excavators.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It is proposed to keep the bench height up to 6mtr for both Ore & OB benches.	Height and width of benches were more or less in order as per the proposal of the approved document.	
3m	Total area covered under excavation/pits	153.063 Ha	153.063 Ha	
3n	Ore to OB ratio for the pit/mine during the year (T/m <sup>3</sup> )	1:12	1: 8.54	
3o	Total area put in use under different heads at the end of year	Area under Mining: 153.063 Overburden/ Waste dumping: 53.600 Mineral Storage: 74.202 Infrastructure (Occupied by plants buildings & roads: 38.474 Reclaimed : 10.271	Area under Mining: 153.063 Overburden/ Waste dumping: 53.600 Mineral Storage: 74.202 Infrastructure (Occupied by plants buildings & roads: 38.474 Reclaimed : 10.271	



3p	Production of ROM mineral during last six-year period, as applicable 2020-21 2021-22 2022-23 2023-24	<b>2020-21</b> Mn-189000 MT Fe-136000 MT <b>2021-22</b> Mn-189000 MT Fe-136000 MT <b>2022-23</b> Mn-189000 MT Fe-136000 MT <b>2023-24</b> Mn-189000 MT Fe-136000 MT	<b>2020-21</b> Mn-103485.02 MT Fe-NIL <b>2021-22</b> Mn-129951.037 MT Fe- NIL <b>2022-23</b> Mn-125530.167 MT Fe-NIL <b>2023-24</b> Mn-152081.808 MT Fe-5103.621 MT	
3q	General remarks of inspecting officer on method of	<p>The lessee has partially carried out the development as per the proposal in both iron and Manganese quarries and could not achieved the targeted proposal during the reporting year 2023-24. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.</p> <p>However, a violation letter already pointed out regarding major variation in grade of Manganese Ore produced in mine on 09.06.2023 during last inspection dated 01.06.2023 and not yet complied so far. Subsequently, the lessee has submitted draft modified MP on 26/03/2024 with up-gradation of low-Grade Manganese Ore reserves/resources and change in grade of Mn-ore and the same has been approved on 26.07.2024 and which if for FY 2024-25.</p>		

### Solid Waste Management-Dumping

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	No top soil generation is proposed. Separate dumping for OB & mineral reject is proposed in different location.	No top soil generation is proposed. OB & mineral reject are dumped in different location.	
4b	Location of topsoil, OB & mineral reject dumps	No top soil generation is proposed. Mineral reject generation are proposed to stack separately. Dumping of waste generated is proposed to use for dumping in DUMP-A and Backfilling in BF-2, BF-3, BF-4, BF-5, BF-6 DUMP-A (2420706N-2421132N, 332594E-332789E ) and by backfilling in BF-2 (2419888N-2420061N, 333328E-333566E);	No top soil is generated. Mineral reject generation are stacked separately. Dumping of waste generated is done in DUMP-A and Backfilling in BF-2, BF-4, BF-5, BF-6 DUMP-A (2420706N-2421132N, 332594E-332789E) and by backfilling in BF-2 (2419888N-2420061N, 333328E-333566E); BF-3(2419240N-2419678N, 334207E-334550E);	

		BF-3(2419240N-2419678N, 334207E-334550E); BF-4(2421037N-2421418N, 331491E-331683E); BF-5(2420522N-2420763N, 332269E-332482E); BF-6(2419898N-2420190N, 332575E-332777E).	BF-4(2421037N-2421418N, 331491E-331683E); BF-5(2420522N-2420763N, 332269E-332482E); BF-6(2419898N-2420190N, 332575E-332777E).	
4c	Number of dumps within lease area and outside lease area	02 no of dumps within the lease area	02 Nos of Dumps within Lease area	
4d	Location of dumps w.r.t. ultimate pit limit	Dump-A : 332594E TO 332789E 2420706N TO 2421132N  Dump-H : 331525E TO 331902E -2420235N TO 2420966N	Dump-A : 332594E TO 332789E 2420706N TO 2421132N  Dump-H : 331525E TO 331902E -2420235N TO 2420966N	
4e	Number of active & alive dumps	1nos.	1nos.	
4f	Number of dead dumps	1 no.	1no.	
4g	Number of dumps stabilized	01(Dump-H)	01(Dump-H)	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes,	Yes, Cumulative of 2661 m Retaining wall and 960m of garland drain so-far.	
4i	Length of Retaining wall or garland drain all along dump	Maintenance	Maintenance	Maintenance is being carried out as and when required.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	<p>The lessee has partially carried out the development as per the proposal in both iron and Manganese quarries and could not achieved the targeted proposal during the reporting year 2023-24. Based on the field observation, a violation letter under rule 11(1) of MCDR 2017 vide dated 28.11.2024 has been issued to the lessee.</p> <p>However, a violation letter already pointed out regarding major variation in grade of Manganese Ore produced in mine on 09.06.2023 during last inspection dated 01.06.2023 and not yet complied so far. Subsequently, the</p>		

		lessee has submitted draft modified MP on 26/03/2024 with up-gradation of low-Grade Manganese Ore reserves/ resources and change in grade of Mn-ore and the same has been approved on 26.07.2024 and which if for FY 2024-25.
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### Solid Waste Management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposal has been given for backfilling in BF-2,BF-3,BF-4,BF-5,BF-6 in the exhausted part of relevant pits/blocks.	Backfilling has been carried out in BF-2,BF-3,BF-4,BF-5,BF-6 in the exhausted part of relevant pits/blocks as per the proposal during the reporting year.	
5b	Area under backfilling of mined out area	134190 m <sup>2</sup>	116600 m <sup>2</sup>	The proposed production could not be achieved against approved proposal. So that proposed waste quantity could not be generated, therefore propose backfilling area could not be fulfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Back-filling are being carried out at ore/mineral exhausted part of 5 nos of pits/blocks within the proposal. However, during the reporting year, the proposed production could not be achieved against approved proposal. So that proposed waste quantity could not be generated, therefore propose backfilling area could not be fulfilled. During the reporting year, 116600 m <sup>2</sup> area has been backfilled against the proposal of 134190 m <sup>2</sup> . As reported a cumulative total of 41.75 Ha area has been covered under back-filling so far.		

### Progressive Mine Closure Plan

SN.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
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6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	The lessee has submitted Annual PMCP report as per Rule 26(2) of MCDR 2017 within the stipulated period during the reporting year FY 2023-24.	
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. Nil iii. Nil iv. Nil v. Nil vi. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil vi. Nil	
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	i. 13.41 Ha. ii. 13.41 Ha. iii. Nil iv. Nil v. Nil	i. 11.66 Ha. ii. 11.66 Ha. iii. Nil iv. Nil v. Nil	
=6d	Compliance of Rehabilitation of waste land within lease	i) 3500 nos of saplings ii) 2023-24= 1.40 Ha. iii) Plantation with 90% survival	i) 3000 nos of saplings during reporting year and cumulatively 20940 saplings ii) 2023-24= 1.60 Ha.	

	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation		iii) Plantation with 89% survival	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone will be as per MOEFCC and SPCB guidelines.	Environmental monitoring in Core zone and buffer zone were carried out as per MOEFCC and SPCB guidelines during the reporting year FY 2023-24.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. The lessee has carried out plantation of 3000 nos of saplings over 1.60 Ha. @ 89% of survival rate during the reporting year FY 2023-24. The lessee could not carried out proposed backfilling i.e. 11.66 Ha. Against the proposal of 13.41 Ha. During the reporting year. PMCP proposals carried out by the lessee are more or less in order w.r.o. the proposals.		

### Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	<u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn <u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe were proposed.	<u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn <u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe are being carried out.	We are trying to consume above threshold value.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	<u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn <u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe were proposed.	<u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn <u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe are being carried out.	
7d	Any beneficiation process at mines	Nil	Nil	No Such proposal during the reporting

			year.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	<p><u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn</p> <p><u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe are being practised. Further no beneficiation process was proposed during the reporting year.</p>	

### Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	No such proposal for the reporting year.	Incidental occurrence of very small amount of clay soil have been generated and concurrently utilized for plantation purpose till the date of inspection during the reporting year.	
8b	Concurrent use or storage of topsoil	No such proposal for the reporting year.	Incidental occurrence of very small amount of clay soil have been generated and concurrently utilized for plantation purpose till the date of inspection during the reporting year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for overburden and mineral reject stacks, waste rocks are maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	During course of mining generated overburden /waste, etc. rock will be backfilled over exhausted pits over 13.41 Ha. area was proposed	During the reporting year about 11.66 Ha. area has been backfilled by generated overburden/waste rock, etc. during the course of mining.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	During course of mining generated overburden /waste, etc. rock will be backfilled over exhausted pits over 13.41 Ha. area was proposed	During the reporting year about 11.66 Ha. area has been backfilled by generated overburden/waste rock, etc. during the course of mining.	

8f	Baseline information on existence of plantation & additional Plantation done	About 3500 nos of saplings over 1.40 Ha. area were proposed to be planted @ with 90% survival rate.	About 3000 nos of saplings over 1.60 Ha. area were planted @ with 89% survival rate during reporting year and cumulatively 20940 sapplings were planted within the lease area.	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker and mobile water sprinklers over haul roads has been carried out by using 4 nos of water tankers and fixed water sprinkler system during the reporting year.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee could not achieve the targeted proposal of back filling during the reporting year. During the reporting year about 11.66 Ha. area has been backfilled by generated overburden/waste rock, etc. during the course of mining. However, the lessee has planted 30000 no of saplings over 1.60 Ha. with a survival rate of 89% & cumulatively 20940 sapplings were planted within the lease area. Water sprinkling by water tanker and mobile water sprinklers over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

### Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Septembert 2024 A.R. Submitted upto FY 2023-24 Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.		
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Shri Janmejoy Mohanta - Mines Manager 2. Mohammad Shahrukh – Mining Engineer	1. Shri Janmejoy Mohanta - Mines Manager 2. Mohammad Shahrukh – Mining Engineer	

		3. Shri Prafulla Kumar Parida - Geologist. were present during the inspection.	3. Shri Prafulla Kumar Parida - Geologist. were present during the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining: 153.063 Overburden/ Waste dumping: 53.600 Mineral Storage: 74.202 Infrastructure (Occupied by plants buildings & roads: 38.474 Reclaimed : 10.271	Area under Mining: 153.063 Overburden/ Waste dumping: 53.600 Mineral Storage: 74.202 Infrastructure (Occupied by plants buildings & roads: 38.474 Reclaimed : 10.271	
9d	Scrutiny of Annual return on afforestation	About 30000 no of saplings over 1.60 Ha. with a survival rate of 89% & cumulatively 20940 sapplings were planted within the lease area.	About 30000 no of saplings over 1.60 Ha. with a survival rate of 89% & cumulatively 20940 sapplings were planted within the lease area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	<u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn <u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe are being practised.	<u>Manganese Ore:</u> Saleable Ore: +25 % Mn, Mineral Reject:- +10 to 25% Mn <u>Iron Ore:</u> Saleable Ore: +54 % Fe, Mineral Reject:- +45 to 54% Fe are being practised.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<u>Manganese Ore:</u> Opening Stock: Nil Production: 152081.000 tons Closing Stock : Nil <u>Iron Ore:</u> Opening Stock: Nil	<u>Manganese Ore:</u> Opening Stock: Nil Production: 152081.000 tons Closing Stock : Nil <u>Iron Ore:</u> Opening Stock: Nil	



		Production: 5103.000 tons  Closing Stock : Nil	Production: 5103.000 tons  Closing Stock : Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 8889.34/- furnished in submitted Annual Return for FY 2023-24.	Cost of production Rs. 8889.34/- furnished in submitted Annual Return for FY 2023-24.	
9j	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs.74268378/-, furnished in the annual return of the reporting year.	Fixed Asset: Rs. 74268378/-, furnished in the annual return of the reporting year.	
9k	Scrutiny of Annual return on mining machineries	BACK HOE 1.100 CUM 2 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast BACK HOE 2.800 CUM 1 Non Electrical Opencast BACK HOE 3.000 CUM 1 Non Electrical Opencast BACK HOE 3.800 CUM 2 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 140.000 MM 3 Non Electrical Opencast FRONT END LOADER 2.500 CUM 2 Non Electrical Opencast DUMPER 25.000 TONNE 38 Non Electrical Opencast DOZER 180.000 HP 2 Non Electrical Opencast JEEP/TRACTOR 75.000 HP 3 Non	BACK HOE 1.100 CUM 2 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast BACK HOE 2.800 CUM 1 Non Electrical Opencast BACK HOE 3.000 CUM 1 Non Electrical Opencast BACK HOE 3.800 CUM 2 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 140.000 MM 3 Non Electrical Opencast FRONT END LOADER 2.500 CUM 2 Non Electrical Opencast DUMPER 25.000 TONNE 38 Non Electrical Opencast DOZER 180.000 HP 2 Non Electrical Opencast JEEP/TRACTOR 75.000 HP 3 Non Electrical Opencast JEEP/TRACTOR 100.000 HP 1 Non Electrical Opencast GENERATOR (DIESEL) 7.500 KWH 2 Non Electrical Opencast	

		<p>Electrical Opencast          JEEP/TRACTOR          100.000 HP 1 Non          Electrical Opencast          GENERATOR          (DIESEL) 7.500          KWH 2 Non          Electrical Opencast          GENERATOR          (DIESEL) 125.000          KWH 1 Non          Electrical Opencast          CRUSHER 60.000          T/H 1 Non          Electrical Opencast          WATER TANKER          10000.000 LITRE 3          Non Electrical          Opencast          WATER TANKER          20000.000 LITRE 1          Non Electrical          Opencast          BLAST HOST          DRILL 140.000          MM 2 Non          Electrical Opencast</p>	<p>GENERATOR (DIESEL)          125.000 KWH 1 Non          Electrical Opencast          CRUSHER 60.000 T/H 1          Non Electrical Opencast          WATER TANKER          10000.000 LITRE 3 Non          Electrical Opencast          WATER TANKER          20000.000 LITRE 1 Non          Electrical Opencast          BLAST HOST DRILL          140.000 MM 2 Non          Electrical Opencast</p>	
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