

MCDR-MiFLOFE/1/2023-RCH-IBM_EZ

NDIAN BUREAU OF MINES

MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Ranchi Regional Office

I/38793/2024

Mine file No: MCDR-MiFLOFE/1/2023-RCH-IBM_EZ

Mine code: 30BHR27024

Date of Inspection: 16.07.2024

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Noamundi Iron Mine
2	Total Lease Area (Ha) with breakup of non-forest and forest land	Total Lease Area (ha)– 1160.06 ha i)Forest area(ha): 762.43ha ii)non-Forest(ha):397.63 ha
3	Mine Code	30BHR27024
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4376/2011
5	Name of the lessee, Address, phone, e-mail and fax number	Tata Steel Limited, 24 Homi Mody Street, Fort. Mumbai-400001, Ph No.: 9262699402 Fax: 06767-272010 Email id: ceo_md_office@tatasteel.com
6	Village	Mohudi, Balijore, Barabali jori, Korta, Noamundi and Sarbil
7	Taluka/Mandal	Noamundi
8	District	West Singhbhum
9	Pin-code	833217
10	State	Jharkhand
11	Post office	Noamundi
12	Nearest police station	Noamundi
13	Nearest Railway station	Noamundi
14	Date of Grant of Mining Lease	01.01.1922
15	Date of Execution	09.08.1923
16	Date of opening of Mine	1922
17	Date of first Renewal, if applicable and its period & expiry	01.01.1952, 30 years, 31.12.1981
18	Date of second Renewal, if applicable and its period & expiry	01.01.1982, 30 years, 31.12.2011
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Application in Form J prescribed under Rule 24A(1) of MCR, 1960 for renewal of Mining Lease submitted on 17.12.2009. As per MMDR Amendment Act, Lease period has been extended till 31.03.2030 via express order vide no. Kh. Ni. Chaibasa - 44/2005 dtd. 31/12/2004
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. T. V. Narendran Northern Town, Jamshedpur, P.O: Bistupur, Dist: East Singhbhum, Jharkhand- 831001, Phone No: 0657-2424602 Email id: narendran@tatasteel.com Date of appointment: 01.11.2013
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. D Vijayendra Noamundi Iron Mine, At/PO: Noamundi Dist: West Singhbhum Phone No: - 9036040123 d.vijayendra@tatasteel.com Date of appointment: 02.04.2024

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22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. N K Srinivas Rao Noamundi Iron Mine, At/PO: Noamundi Dist: West Singhbhum Phone No: - 8092000022 nksrao@tatasteel.com Date of appointment: 04.04.2024
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. N K Srinivas Rao Qualification: B. Tech in Mining Engineering Total Experience: 20 Years Noamundi Iron Mine, At/PO: Noamundi Dist: West Singhbhum Phone No: - 8092000022 nksrao@tatasteel.com Date of appointment: 04.04.2024
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes GEOLOGIST: Mr. Manas Kumar Mahanta Qualification: MSc. In Geology manas.mahanta@tatasteel.com Date of appointment: 01.11.2023 MINING ENGINEER: Mr. N K Srinivas Rao Qualification: B. Tech in Mining Engineering nksrao@tatasteel.com Date of appointment: 04.04.2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval of Review of Mining Plan Vide letter No-RAN/WSB/Fe/MP-24/2021-22 at 15.03.2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	-
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised (Category A)
30	Captive/Non-Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	0	0	10 boreholes were drilled in FY'22-23 having a total meterage of 153m.
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	No proposal of exploratory drilling for the reporting year and 10 boreholes were drilled in FY'22-23 having a total meterage of 153m.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	No proposal of exploratory drilling for the reporting year and 10 boreholes were drilled in FY'22-23 having a total meterage of 153m.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	No proposal of exploratory drilling for the reporting year and 10 boreholes were drilled in FY'22-23 having a total meterage of 153m.

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1e	Balance reserves as on 01.04.2024	111839006	113,475,565.00	As per furnished records.
1f	General remarks of inspecting officer on geology, exploration etc.	No proposal of exploratory drilling for the reporting year and 10 boreholes were drilled in FY'22-23 having a total meterage of 153m.		

2.0 DEVELOPMENT

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Hill 3&4 N: 22° 8'23.63" to 22° 8'42.80" E: 85°30'0.34 " to 85°30'13.05" Hill 5 & 6 N: 22° 7'14.67" to 22° 7'39.31" E: 85°29'14.76" to 85°29'52.40" Western Pit N: 22° 8'18.79" to 22° 8'38.10" E: 85°29'15.16" to 85°29'35.26"	Hill 3&4 N: 22° 8'23.80"to 22° 8'42.77" E: 85°30'0.58" to 85°30'12.94" Hill 5 & 6 N: 22° 7'29.93" to 22° 7'39.15" E: 85°29'23.29" to 85°29'35.79" Western Pit N: 22° 8'18.79" to 22° 8'37.87" E: 85°29'15.16" to 85°29'35.13"	In Hill 5&6 it was proposed to develop 13 benches from 744 mRL to 600 mRL however only 4 benches have been developed.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	Separate benches found
2c	Stripping ratio or ore to OB ratio	10.5 T/m ³	9.18 T/m ³	As per furnished records.
2d	Quantity of topsoil generation in m3	30000	28000	Within the envisaged proposal.
2e	Quantity of overburden generation in m ³	10,72,337	10,35,499.711	Within the envisaged proposal.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Lessee has not developed Hill 5 & 6 pit as envisaged in the approved review of Mining plan document.		

3.0 EXPLOITATION

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	3	3	As per Plan
3b	Quantity of ROM mineral production proposed	11189445 T	9546154.050 T	Within the proposal.
3c	Recovery of saleable/usable mineral from ROM production	10600000 T	9034929.050 T	Within the proposal.
3d	Quantity of mineral reject generation	589445 T	511225 T	Within the proposal.
3e	Grade of mineral reject generation and threshold value declared	Fe%: 45-58	Generation FY'23-24: Fe% = 53.62 Cumulative <i>(Stacked at mineral reject dumps):</i> Fe% = 54.66	Within the proposal.
3f	Quantity of sub-grade mineral generation	589445 T	511225 T	Within the proposal.
3g	Grade of sub-grade mineral generation	Fe%: 45-58	Generation FY'23-24: Fe% = 53.62 Cumulative <i>(Stacked at mineral reject dumps):</i> Fe % = 54.66	Within the proposal.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised method adopted	Within the proposal.

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1/38793/2024	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	-	-	No analysis was proposed in approved RoMP.
3j	Provision of drilling & blasting in mineral benches	Deep Hole Drilling Dia: - 165 mm Depth: - 12 m Spacing: - 4.0 to 4.3 m Burden: - 3.5 to 4.0 m Explosive: - SME	Deep Hole Drilling Dia: - 165 mm; Depth: - 12 m Spacing: - 4.0 -4.3 m ; Burden: - 3. 5-4.0m Explosive used: - SME. (Quantity: 3121852 kgs)	As per approved RoMP& found satisfactory.
3k	Provision of mining machineries in mineral benches	Shovel (5.9 m ³) & Dumper (100 T) Combination	Shovel (5.9 m ³) & Dumper (100 T) Combination	As per approved RoMP & found satisfactory.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height- 12 m	Height of benches suitable for method of mining as proposed in mining plan, Bench Height- 12 m	As per approved RoMP& found satisfactory.
3m	Total area covered under excavation/ pits	296.130 ha	296.230 ha	Found ok. Slight increase.
3n	Ore to OB ratio for the pit/mine during the year	10.5 T/m ³	9.18 T/m ³	Within the proposal.
3o	Total area put in use under different heads at the end of year	Pit: 296.130 ha Dump: 72.430 ha Infrastructure: 50.722 ha Total: 764.208 ha	Pit: 296.230 ha Dump: 68.390 ha Infrastructure: 17.4700 ha Total: 695.84 ha	As per approved RoMP & found satisfactory.
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 10000000 2020-21: 10000000 2021-22: 19000000 2022-23: 11182712 2023-24: 11189445	2019-20: 9870573.119 2020-21: 9134265.900 2021-22: 11382350.365 2022-23: 9448281.476 2023-24: 9546154.050	Within the proposal.
3q	General remarks of inspecting officer on method of mining etc.	Lessee has not been able to produce as per the quantum envisaged in approved review of mining plan document. The production is close to 85%.		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumps for topsoil, waste, & mineral reject.	Separate dumps for topsoil, waste, & mineral reject	Topsoil encountered has been utilized in concurrent plantation.
4b	Location of topsoil, OB & mineral reject dumps	OB Dump 1. (Backfilling Area #2) E: 344569 to 345156 N: 2447039 to 2447791 2. Backfilling Area #3 E: 343950 to 344321 N: 2448900 to 2449216 Mineral Reject Dump 1. (Mineral Reject #2) E: 344005 to 345068 N: 2447771 to 2448193 2. (Jig Reject) E: 344912 to 345217 N: 2448237 to 2448622	OB Dump 1. (Backfilling Area #2) E: 344634to 345043 N: 2447134 to 2447778 2. Backfilling Area #3 E: 343992 to 344186 N: 2449006 to 2449202 Mineral Reject Dump 1. (Mineral Reject #2) E: 344925 to 345192 N: 2447774 to 2448178 2. (Jig Reject) E: 344925 to 345192 N: 2448273 to 2448604	It was seen that OB material was side casted to lower ore benches in Hill 3&4 which defeats the purpose of Rule 14(3) i.e. avoid mixing of waste with the ore or minerals. In this regard a violation under Rule 14(3) is being issued.

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SN	Item	Proposals	Actual work	Remarks
4c	Number of dumps within lease area and outside lease	OB Dump: 2 Nos. Mineral Reject Dumps: 2 No dumps outside lease area.	OB Dump: 2 Nos. Mineral Reject Dumps: 2 No dumps outside lease area.	Within the approved proposal.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL OB Dumps: 3 Nos. Mineral Reject Dumps: 2 Outside UPL Waste Dumps: 2 Nos. Mineral Reject Dump: 1	Within UPL OB Dumps: 3 Nos. Mineral Reject Dumps: 2 Outside UPL Waste Dumps: 2 Nos. Mineral Reject Dump: 1	Within the approved proposal.
4e	Number of active & alive dumps	Waste dumps-4 Mineral reject dumps -3	Waste dumps-4 Mineral reject dumps -3	
4f	Number of dead dumps	1	1	<i>Waste dump #2:</i> E: 345246 to 345431 N: 2447961 to 2448391
4g	Number of dumps stabilised	1 Nos.	1 Nos.	Waste Dump #2 has been partially stabilized.
4h	Whether Retaining wall or garland drain all along dumps	Proposed	Constructed	As per approved proposal.
4i	Length of Retaining wall or garland drain all along dump	Retaining wall:1383 m Garland drain:1397 m	Retaining wall:576 m Garland drain:1404 m	Lessee has not been able to develop Retaining wall as envisaged in approved Review of Mining plan document. Violation is being issued for non compliance in Retaining wall
4j	Number of settling ponds	Check Dam: 1	Check Dam: 1	As per approved proposal.
4k	Specific comments of inspecting officer	Lessee has not been able to develop Retaining wall as envisaged in approved Review of Mining plan document. Violation is being issued for non compliance in Retaining wall.		

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	OB Dump 1. Backfilling Area #2 E: 344569 to 345156 N: 2447039 to 2447791 2. Backfilling Area #3 E: 343950 to 344321 N: 2448900 to 2449216	OB Dump 1. Backfilling Area #2 E: 344634 to 345043 N: 2447134 to 2447778 2. Backfilling Area #3 E: 343992 to 344186 N: 2449006 to 2449202	Within the proposal.
5b	Area under backfilling of mined out area	17.4345 ha	17.4200* ha	(Total 17.57 ha that includes haul roads)
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use proposed	Concurrent use done	28000 m3 of topsoil utilised in plantation.
5d	Total area fully reclaimed & rehabilitated	-	-	Afforestation did over 126 ha of Hill #1&2 by plantation of over 6L saplings.

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SN	Item	Proposals	Actual work	Remarks
1/38793/2024 5e	General remarks of inspecting officer on backfilling, reclamation etc	Satisfactory work has been done by the lessee in solid waste management-backfilling.		

6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	Item	Proposals	Actual work	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.	To be submitted by 30 th June	Yes, submitted along with Annual Return on 29 th June 2024	As per Rule.
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) 0 ii) NA iii) 0. iv) NA v) NA vi) NA.	i) 0 ii) NA iii) 0. iv) NA v) NA vi) NA.	Within the approval proposal.
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) Voids available for backfilling: Backfilling Area #2: 595* 300*24= 42,84,000 Backfilling Area #3: 171*220*36= 13,54,320 ii) Void filled by waste/tailings: 13.311 Ha+4.1235 ha: 17.4345 Ha. iii) 3.84 ha iv) NA v) NA Total Backfill area: 17.43 ha Backfilling volume: 1.072 m ³	i) Voids available for backfilling: Backfilling Area #2: 608* 308*24= 44,94,336 Backfilling Area #3: 180*228*36= 14,77,440 ii) Void filled by waste/tailings: 13.300 ha+ 4.120 ha= 17.42 Ha. iii) 3.84 ha iv) NA v) NA Total Backfill area: 17.42 ha Backfilled volume: 1.035 m ³	Slight Variation in proposal. Otherwise Within the approval proposal.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation: 9593 Nos. ii) Area rehabilitated (ha): 3.84 ha iii) Method of rehabilitation: Plantation	i) Afforestation: 11276 Nos. ii) Area rehabilitated (ha): 3.84 ha iii) Method of rehabilitation: Plantation	Found Satisfactory.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air quality monitoring: Monthly reporting Surface Water quality monitoring: Quarterly reporting Ground Water quality monitoring: Quarterly Reporting Noise survey: Monthly Reporting	Air quality monitoring: Monthly reporting Surface Water quality monitoring: Quarterly reporting Ground Water quality monitoring: Quarterly Reporting Noise survey: Monthly Reporting	Work done as per approved RoMP Document.
6f	General remarks of inspecting officer on PMCP compliance & progressive	Satisfactory work has been done by lessee in progressive mine closure plan compliance.		

7.0 MINERAL CONSERVATION

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	10,600,000 T	CLO: Fe-65% and above-1,701,212 T Fines: Fe-65% and above-8,567,999 T	Within the approved proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No grade wise sorting is proposed. Size-wise mechanical sorting proposed.	No grade wise sorting is being done. Size-wise mechanical sorting is being done.	No grade wise sorting is being done. Size-wise mechanical sorting is being done.
7c	Different grade of mineral sorted out at mines	Not Applicable	Not Applicable	Not done
7d	Any beneficiation process at mines	Wet beneficiation plants of 7 MTPA with Jigging and Hydro cyclone circuit along with 2 Nos. Dry Crushing and Screening plants of 6 MTPA & 4 MTPA	Wet beneficiation plants of 7 MTPA with Jigging and Hydro cyclone circuit along with 2 Nos. Dry Crushing and Screening plants of 6 MTPA & 4 MTPA	Beneficiation plants of 6 MTPA is under construction
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Satisfactory work has been done by lessee Mineral conservation & beneficiation compliance		

8.0 ENVIRONMENT

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, 30000 m ³	Yes, 28000 m ³	No stacking done in the period 2023-24.
8b	Concurrent use or storage of topsoil	Concurrent use & Storage Proposed	Concurrent usage of topsoil for plantation within mines	28000 m ³ of topsoil was utilized in concurrent plantation.
8c	Separate dumps for overburden, waste rock, reject and fines (Rule 33)	Separate dumps proposed OB/Waste Dumps 1. Backfilling Area#2 2. Backfilling Area #3 Mineral reject – 1. Mineral Reject #2 2. Jig Reject.	Separate dump maintained OB/Waste Dump 1. Backfilling Area#2, 2. Backfilling Area #3 Mineral reject – 1. Mineral Reject #2 2. Jig Reject.	As per the approved Proposal
8d	Use of overburden, waste rock, reject and fines dumps for restoring the land to its original use	OB Dump 1. Backfilling Area # 2 E: 344569 to 345156 N: 2447039 to 2447791 2. Backfilling Area #3 E: 343950 to 344321 N: 2448900 to 2449216	OB Dump 1. Backfilling Area # 2 E: 344634 to 345043 N: 2447134 to 2447778 2. Backfilling Area # 3 E: 343992 to 344186 N: 2449006 to 2449202	1.035 M ³ of waste/OB was used for backfilling over an area of 17.57 ha.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation proposed in OB Dump (backfilling area #2) over an area of 3.84 ha by plantation of 9593 nos. of saplings.	Plantation achieved over an area of 3.84 ha in OB Dump (backfilling area #2) and waste dump #1 by plantation of 11276 nos. of saplings.	As per the approved Proposal and satisfactory work beyond proposal
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Area proposed for plantation: 3.84 ha. No. of saplings to be planted: 9593	Area under plantation: 3.84 ha No. of saplings planted: 11276.	Previous Area under plantation: 32.27 Previous No. of plants within the lease area: 749807 Cumulative area under plantation: 36.11 ha Cumulative np. Of plants within the lease: 761083
8g	Survival rate	85%	85%	Satisfactory work done

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8h	Water sprinkling on roads to control airborne dust	Proposed	Being done using mobile water tankers and fixed water sprinklers	As per the approved Proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines	Satisfactory work has been done in the area of environment protection by the lessee to maintain 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 2023-2024		
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: Mr. NK Srinivas Rao Geologist: Mr. Manas Kumar Mahanta Manager: Mr. NK Srinivas Rao	Mining Engineer: Mr. NK Srinivas Rao Geologist: Mr. Manas Kumar Mahanta Manager: Mr. NK Srinivas Rao	Found ok with records.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 296.130 ha Dump: 72.430 ha Infrastructure: 50.722 ha Total: 764.208 ha	Pit: 296.230 ha Dump: 68.390 ha Infrastructure: 17.4700 ha Total: 695.84 ha	Found ok with records.
9d	Scrutiny of Annual return on afforestation	WML: 9593 Nos.	WML: 11276 Nos.	Found Satisfactory.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	5,89,445 T	5,11,225 T	FY'23-24: Fe% = 53.62
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- 1185280.58 Production- 9546145.05 ROM Feed – 10484192.230 Closing Stock- 247242.4 Products: CLO: 1476752.036 Fines: 8586173.352 Tailings: 421266.842 Dispatch- 10269211.10 There is no separate stock for graded ore.	Opening Stock- 1185280.58 Production- 9546145.05 ROM Feed – 10484192.230 Closing Stock- 247242.4 Products: CLO: 1476752.036 Fines: 8586173.352 Tailings: 421266.842 Dispatch- 10269211.10 There is no separate stock for graded ore.	ROM Feed = Opening Stock + Production – ROM Feed = Closing Stock (Opening Stock) 1185280.58+ (Production) 9546145.05 – (ROM Feed) 10484192.230 = (Closing Stock) 247242.4
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price: ₹ 2031.38	Ex-mine price: ₹ 2031.38	Found ok with records.
9i	Scrutiny of Annual return on fixed assets	₹ 9557327200	Verified from the asset register and found correct.	Certified by Chartered Accountant
9k	Scrutiny of Annual return on mining machineries	1.Shovel- 5 2. Dumper- 10 3.Rock Drill- 3 4. Loader -2 5. Dozer-2 6. Grader-2 7. Water Tanker-2 8. Crane-3	1.Shovel- 5 2. Dumper- 10 3.Rock Drill- 3 4. Loader -2 5. Dozer-2 6. Grader-2 7. Water Tanker-2 8. Crane-3	Found ok with records.

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10 - Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
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1. Earlier pointed out violation: 1; dated 04.01.24, complied.

2. Violation pointed out in the current inspection are as under:

- a. Rule 11(1): Working proposal has been envisaged in Hill 5&6 from 688 to 588 mRL however the area is submerged with water and there is no provision of removal of accumulated water so that working can be progressed.
- b. Rule 11(1): In Hill 5&6 it was proposed to develop 13 benches from 744 mRL to 600 mRL in the year 2023-24 however only 4 benches have been developed. This lagging with the approved mining plan can't be matched up in rest of the mining plan period.
- c. Rule 11(1): It was proposed to construct retaining wall of 1383 meter however only 583 meter has been constructed.
- d. Rule14(3): Mixing of OB with Ore was seen in Hill 3&4 between 22° 8'39.21"N ; 85°30'10.95"E & 22° 8'36.70"N; 85°30'8.45"E at 552 mRL.

(Vikas Kumar),
Asst. Controller of Mines,
Indian Bureau of Mines- Ranchi