

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION  
MCDR INSPECTION REPORT  
BHUBANESWAR REGIONAL OFFICE**

**General:**

SL. No.	Particulars	Details
1	Name of the Mine	Raikela Iron Ore Mines
2	Date of inspection	<b>28/9/2023</b>
3	Name of inspecting officer	Prashant S Hegde, RMG
4	Name accompanying mine officials	S/Shri Sunit Patel, Agent, Pramod Kumar Sahoo Mines Manager, Susila Kumar Pradhan Mining Engineer and Pradeept Mohapatra Geologist.
5	Last date of Inspection & Officer	11/01/2023 Shri Sanjay Mohapatra, AME
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area: 67.586 Ha. Forest area: 66.671 Ha. Non-Forest area: 0.915 Ha.
7	Minecode	30ORI13034
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/5796/2011
9	Name of the lessee, Address, phone, email and fax number	M/s Geetarani Mohanty Shri Shrinibash Sahoo (Managing Partner) Station Road, Barbil Dist.: - Keonjhar State: - Odisha (758035) Email: geetarani.mines@gmail.com
10	Village	Raikela
11	Taluka/Mandal	Koira
12	District	Sundargarh
13	Pincode	770048
14	State	Odisha
15	Post office	Koira
16	Nearest police station	Koira
17	Nearest Railway station	Barsuan
18	Date of Grant of Mining Lease	02/07/1991
19	Date of Execution	02/07/1991
20	Date of opening of Mine	13/01/1993
21	Date of expiry	01/07/2041
22	Name of the <b>Nominated Owner</b> with Address, phone, email, fax number and date of appointment	Shri Shrinibash Sahoo, Managing Partner House No – 96, Station Road, Barbil – 758035, Dist–Keonjhar (Odisha) Phone No: - 9437003288 Email: geetarani.mines@gmail.com Date of Appointment: - 09/01/1992
23	Name of the <b>Mine Agent</b> with Address, phone, email, fax number and date of appointment	Shri Sunit Patel House No – 96, Station Road, Barbil – 758035,

		Dist-Keonjhar (Odisha) Phone No: 7008806558 Email: geetarani.mines@gmail.com Date of Appointment: 01.09/2021
24	Name of the <b>Mines Manager</b> with Address, mobile no, email, fax number and date of appointment in mine	Shri Pramod Kumar Sahoo Raikela Iron Ore Mine of M/s Geetarani Mohanty Village: Raikela, Po: Tensa, Dist.: Sundargarh State: Odisha (770048) Email: <a href="mailto:geetarani.mines@gamil.com">geetarani.mines@gamil.com</a> Date of Appointment: - 01.06.2019
25	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	Shri Susila Kumar Pradhan Qualification: BE (Mining) Experience: 20 years Phone: 9438458072 Email: - <a href="mailto:geetarani.mines@gamil.com">geetarani.mines@gamil.com</a> Date of Appointment: 24.06.2019
26	Name of the <b>Geologist</b> , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Mr. Pradeept Mohapatra Qualification: M.Sc Geology Experience: - 18 years Phone: - 9438149715 Email: <a href="mailto:geetarani.mines@gamil.com">geetarani.mines@gamil.com</a> Date of Appointment: - 24.10.2021
27	Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-year period and specific condition in approval letter, if any.	1) Modification of Review of the Mining Plan No. MPMP/A/32-ORI/BHU/2021-22 dated 6/1/2022 for the period 2021-22 to 2025-26 2) Modification of Review of the Mining Plan No. IBM/5796/2011/30ORI3034 Dated: 12.07.2023 for the period from 2023-24 to 2025-26.
28	Mineral (s) granted in lease and proved for mining	Iron Ore
29	Method of Mining(Open cast, Underground)	Open Cast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Non-Captive
32	Present EC Capacity	4.99 million tonnes.

**OBSERVATIONS/COMMENTS OF INSPECTING OFFICER:****1)Exploration:---**

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
1a	Backlog of previous year	FY-2021-22: 25 nos of core BHs with 2040 total meterage FY 22-23: NIL	15 nos boreholes drilled with 988 total meterage so far. Subsequently, modified RMP approved on	V/L issued on 18/10/23 for non-submission of form-I related to on-going exploration in current year.

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			12.07.2023 with 8 nos of BHs for FY 2023-24	
1b	Exploration over lease area for Geological axis 1 or 2.	Conversion of 18.08 Ha G-2 area to G-1	G-1: 62.9550 Ha G-2: 1.5770 Ha Area proved as Non-mineralized: 3.0540 Ha	As per latest approved modified RMP dated 12.07.2023
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	MY WORLD CONSULTANT SERVICE PVT LTD; 34.58 lakh Rupees Expenditure	_____
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	Balance of 1.5770 Ha G-2 area to be explored	As per latest approved modified RMP on 12.07.2023
1e	Balance reserves as on 01.04.2023	NA	As on 1/4/23 reserves in tonnes : <b>11:</b> 3,060,600(45-55 % Fe ), 80,54 8,200 (+55 % Fe); <b>12:</b> 1,349,600 (45-55% Fe), 2,943,960 (+55% Fe) <b>Grand Total:</b> <b>87.9 Million tonnes</b>	As per latest approved modified RMP on 12.07.2023.
<b>1f:</b>	General remarks of inspecting Officer on Geology, exploration etc.	The lease area is a part of the Horse-shoe shaped Singhbhum-Bonai-Keonjhar iron ore belt. The lithological succession established as observed within the leasehold area are compatible with other locations on the western limb of the synclorium. The general lithological succession is as follows: Alluvium Laterite/lateritic ore, Massive / Laminated in-situ ore, Shale, BHQ / BHJ. Considering the information of existing quarries & borehole data, the shape of the mineral deposit is 930m x 750m x 109.50m.		

**2)Development:--**

SL. No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	TOP portion of Pit (E-311645-312022 & N-2419801-2420179) & MIDDLE portion of Pit (E-311746-312022 & N-2419800-2419989)	Within the proposed location.	_____
2b	Separate benches in topsoil, overburden and mineral	Separate benches in overburden and minerals; No top-soil generation.	As per proposal	_____
2c	Stripping ratio or ore to OB ratio	1:0.05	1: 0.08	Ratio in tonnes
2d	Quantity of topsoil generation in m3	No proposals	Nil	_____
2e	Quantity of overburden generation in m3	126,750	128,350	in m3
2f	General remarks of inspecting Officer on development of pit w.r.t. type of deposit etc	Development of pit is being carried out as per the approved modified RMP.		

**3)Exploitation:--**

SL.No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	One	One	_____
3b	Quantity of ROM mineral production proposed	4,990,000 tonnes	3,143,500 tonnes	Due to CTO granted on 20.02.2023.

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3c	Recovery of salable/usable mineral from ROM production	4,411,541 tonnes (88.4 %)	2,522,830 tonnes (80.2 %)	Due to CTO granted on 20.02.2023.
3d	Quantity of mineral reject generation	578,459 tonnes	620,670 tonnes	Top Capping remove & development workings.
3e	Grade of mineral reject generation and threshold value declared	45 to 55 % Fe	45 to 55 % Fe	Threshold value of Iron Ore : +45 % Fe
3f	Quantity of sub-grade mineral generation	Same as para 3d		Sub-grade mineral/ mineral reject are being stacked separately & utilized as per market condition.
3g	Grade of sub-grade mineral generation	Same as para 3e		
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	_____
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	NIL	_____
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting in mineral benches is proposed with burden, spacing and diameter of hole at 3.25m, 3.75m and 104 mm respectively.	As per proposals.	_____
3k	Provision of mining machineries in mineral	Yes, mining by Shovel Dumper Combination. ROM will be excavated and loaded in the 30 T	As per proposals.	_____

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	benches	dumpers by 0.9 m3 to 3.3 m3 excavators.																						
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10m bench height with 10m width	As per proposals.	_____																				
3m	Total area covered under excavation/pits	36.143 Ha	36.143 Ha	_____																				
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1: 0.08	Ratio in tonnes																				
3o	Total area put in use under different heads at the end of year	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Total Area(Ha) at the end of FY 2022-23</th> </tr> </thead> <tbody> <tr> <td>Area under Mining</td> <td>36.143</td> </tr> <tr> <td>Overburden/Waste dumping</td> <td>2.716</td> </tr> <tr> <td>Mineral Storage</td> <td>10.217</td> </tr> <tr> <td>Infrastructure (Occupied by plants buildings &amp; roads)</td> <td>4.859</td> </tr> </tbody> </table>	Particulars	Total Area(Ha) at the end of FY 2022-23	Area under Mining	36.143	Overburden/Waste dumping	2.716	Mineral Storage	10.217	Infrastructure (Occupied by plants buildings & roads)	4.859	Broadly within the limit. However, the actual lease area (surface area) utilization information furnished under AR was not matching as compare to latest approved modified RMP dated 12.07.2023 and land-use map submitted along with DAI under rule 34A.	V/L issued under rule 45(7) on 18/10/23.										
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3p	Production of ROM mineral during last five-years period, as applicable	<table border="1"> <tbody> <tr><td>2018-19</td><td>864,058</td></tr> <tr><td>2019-20</td><td>1,982,165</td></tr> <tr><td>2020-21</td><td>2,990,000</td></tr> <tr><td>2021-22</td><td>2,990,000</td></tr> <tr><td>2022-23</td><td>4,990,000</td></tr> </tbody> </table>	2018-19	864,058	2019-20	1,982,165	2020-21	2,990,000	2021-22	2,990,000	2022-23	4,990,000	<table border="1"> <tbody> <tr><td>2018-19</td><td>NIL</td></tr> <tr><td>2019-20</td><td>575,700</td></tr> <tr><td>2020-21</td><td>1,214,000</td></tr> <tr><td>2021-22</td><td>2,981,000</td></tr> <tr><td>2022-23</td><td>3,143,500</td></tr> </tbody> </table>	2018-19	NIL	2019-20	575,700	2020-21	1,214,000	2021-22	2,981,000	2022-23	3,143,500	Unit: In tonnes
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2022-23	3,143,500																							
3q	General remarks of inspecting Officer on method of mining etc	Open-cast fully mechinsed mining method is being carried as per approved modified MP. Less prodction for FY 22-23 was due to CTO granted on 20.02.2023																						

**4)Solid Waste Management-Dumping:--**

SL.No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
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4a	Separate dumping of topsoil, OB & mineral reject	Separate dumping of OB and mineral reject proposed; Top soil: Nil	As per the proposals.	_____
4b	Location of topsoil, OB & mineral reject dumps	For Dump: N-2419733 to 2419827, & E-312256 to 312390 Mineral Mineral Reject : N-2419500, E-311600	As per proposals.	_____
4c	Number of dumps within lease area and outside lease area	One within ML	One within ML	_____
4d	Location of dumps w.r.t. ultimate pit limit	Dumping proposed outside of ultimate pit limit (NE part of ML)	As per proposals.	_____
4e	Number of active & alive dumps	One active	One active	_____
4f	Number of dead dumps	NIL	NIL	_____
4g	Number of dumps stabilised	NIL	NIL	_____
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, proposed	Proposals carried out as per approved modified MP.	_____
4i	Length of Retaining wall or garland drain all along dump	Retaining wall- 530 m Garland drain- 677 m	Retaining wall- 556 m Garland drain- 700 m	V/L issued on 18/10/23 for improper maintenance of Retaining wall & garland drain.

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4j	Number of settling ponds	NIL	NIL	_____
4k	Specific comments of inspecting Officer on waste dump management	Overburden wastes and mineral reject management are being carried out as per the approved proposals. State Govt. yet to grant the permission for disposal of OB/Waste as minor mineral under Rule 12(1)(k) of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016. However, V/L issued on 18/10/23 for improper maintenance of Retaining wall & garland drain.		

### 5)Solid Waste Management-Backfilling:--

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No such proposals	NIL	_____
5b	Area under backfilling of mined out area	No such proposals	NIL	_____
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	NA	Nil	_____
5d	Total area fully reclaimed & rehabilitated	NA	NIL	_____
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Pit or part of pit is not matured for backfilling so far.		

### 6)Progressive Mine Closure Plan:---

SL.N.	Item	Proposals (FY 2022-23)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	Before 1 <sup>st</sup> July of, 2022-23	Submitted on time	NIL
6b	Management of worked/mined out benches/dumps i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings	i) Nil ii) Nil iii) NIL	i) Nil ii) Nil iii) 2000 nos	2000 nos saplings planted within ML at safety zone during year 22-23, besides 7500

	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	iv) NA v) NIL vi) Nil	(Within ML) iv)31,648 nos so far (Within ML) v) Plantation vi)NA	nos saplings planted outside ML.
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) No such proposals ii) NA iii)NA iv) No such proposals v) No such proposals	i) Nil ii) Nil iii) Nil iv)Nil v) Nil	Pit is not matured for back-filling.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i)550 nos at safety zone ii)0.22 ha iii)Plantation	i)2000 nos ii) 0.5 Ha iii) Plantation	<hr/>
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 was carried out as per the proposals and parameters are within the limit.	<hr/>
6f	General remarks of inspecting Officer on PMCP compliance & progressive closure operation etc	Lessee has implementing PMCP proposals as per approved modified MP. However, V/L issued on 18/10/23 for improper maintenance of Retaining wall & Garland drain at toe of mineral reject & waste dump.		

### 7)Mineral Conservation:---

SL.No	Item	Proposals ((FY 2022-23)	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting by crushing and screening within lease area.	As per proposals	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	NIL
7c	Different grade of mineral sorted out at mines	<b>Iron Ore</b> of different size and grade (CLO & Fines) proposed to be sorted out and dispatched (Iron Grade range- 51-55% Fe, 55-58% Fe, 58-60% Fe, 60-62% Fe & 62-65% Fe)	As per proposals	NIL
7d	Any beneficiation process at mines	None except dry crushing and screening	As per proposals	NIL
7e	General remarks of inspecting Officer on mineral conservation & beneficiation issues	Grade-wise sorting & dispatches of ore/mineral as per the requirement of buyers and there is no mineral conservation issue.		

**8)Environment:--**

SL.No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No such proposals.	Nil	_____
8b	Concurrent use or storage of topsoil	No such proposals.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumping of OB wastes/ mineral rejects proposed	Carried out as per proposals.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals	NIL	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals	NIL	_____
8f	Baseline information on existence of plantation & additional plantation done	550 nos saplings proposed during FY 22-23.	2000 nos saplings planted within ML at safety zone during year 22-23; besides 7500 nos saplings planted outside ML with cum. Of 43,550 nos	_____
8g	Survival rate	85 %	70 %	_____

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8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on Haul roads, Waste dumps & crushing plant locations using Water tanker to suppress the dust.	Carried out as per the proposals.	_____
8i	General remarks of inspecting Officer on aesthetic beauty in & around mines area.	Aesthetic beauty in & around mines area is good as lessee implementing the PMCP proposal and carried out plantation as per the proposals.		

### 9) Compliance of Rule 45

SL.No.	Item	COMMENTS		Remarks.				
9a	Status of submission of Monthly and Annual returns	Presently regularly submitting the MRs/ARs on-time. Earlier, the lessee had paid Amount of Rs 40,000/ towards delay in submission of MR-June-23 on 7/8/23 under Rule 45 (7A)		<b>Nil</b>				
S.N.	Item	Details GIVEN in A.R.	Actual in field	_____				
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Shri Pramod Kumar Sahoo Mining Engineer: Shri Susila Kumar Pradhan Geologist: Shri Pradeept Mohapatra	Actual also the same	_____				
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(1) Covered under current (O/C) Workings- 36.143 Ha (2) Used for Waste Disposal-2.716 Ha (3) Occupied by plant, buildings, residential, welfare, buildings and roads- 4.859 Ha (4) Other Purpose (Mineral Storage)- 13.194 Ha	Broadly within the limit. However, the actual lease area (surface area) utilization information furnished under AR was not matching as compare to latest approved modified RMP dated 12.07.2023 and land-use map submitted along with DAI under rule 34A.	V/L issued under rule 45(7) on 18/10/23.				
9d	Scrutiny of Annual return on afforestation	2000 nos within ML +7500 nos Outside ML	Actual also as per AR	_____				
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	<table border="1"> <tr> <td colspan="2">During year-22-23</td> </tr> <tr> <td>Iron Processed Ore (45-55 % Fe, Avg. 52.5 % Fe)</td> <td>620,670 tonnes</td> </tr> </table>	During year-22-23		Iron Processed Ore (45-55 % Fe, Avg. 52.5 % Fe)	620,670 tonnes	Appear to be correct.	_____
During year-22-23								
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9f	Scrutiny of Annual return on ROM stock and/or graded ore	<p>As on 31.03.2023 tonnes Stock Iron ROM:1,28,200 tonnes.</p> <table border="1" data-bbox="612 331 924 1048"> <thead> <tr> <th colspan="2">Fines closing stock in tonnes</th> </tr> </thead> <tbody> <tr> <td>51%-55%</td> <td>6,48,806</td> </tr> <tr> <td>55%-58%</td> <td>3,93,428</td> </tr> <tr> <td>58%-60%</td> <td>1,73,901</td> </tr> <tr> <td>60%-62%</td> <td>31,607</td> </tr> <tr> <td>62%-65%</td> <td>9,733</td> </tr> <tr> <td>65% and above</td> <td>NIL</td> </tr> <tr> <th colspan="2">CLO stock in tonnes</th> </tr> <tr> <td>&lt;62% Fe (clo any size)</td> <td>1,21,330</td> </tr> <tr> <td>62%-65% Fe (5-18 mm)</td> <td>144</td> </tr> <tr> <td>62 to 65 % Fe and above(10-40mm)</td> <td>8,045</td> </tr> </tbody> </table>	Fines closing stock in tonnes		51%-55%	6,48,806	55%-58%	3,93,428	58%-60%	1,73,901	60%-62%	31,607	62%-65%	9,733	65% and above	NIL	CLO stock in tonnes		<62% Fe (clo any size)	1,21,330	62%-65% Fe (5-18 mm)	144	62 to 65 % Fe and above(10-40mm)	8,045	Appear to be correct.	_____
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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<table border="1" data-bbox="612 1122 924 1805"> <thead> <tr> <th colspan="2">Ex-Mine Price of Fines</th> </tr> </thead> <tbody> <tr> <td>51%-55%</td> <td>869.29</td> </tr> <tr> <td>55%-58%</td> <td>1538.78</td> </tr> <tr> <td>58%-60%</td> <td>2266.01</td> </tr> <tr> <td>60%-62%</td> <td>2468.57</td> </tr> <tr> <td>62%-65%</td> <td>3020.23</td> </tr> <tr> <th colspan="2">Ex-Mine Price of CLO</th> </tr> <tr> <td>&lt;62% Fe (clo any size)</td> <td>4854.03</td> </tr> <tr> <td>62%-65% Fe (5-18 mm)</td> <td>5105.32</td> </tr> <tr> <td>62 to 65 % Fe and above(10-40mm)</td> <td>4551.60</td> </tr> </tbody> </table> <p>Cost of production: Rs 2287.52 per tonne</p>	Ex-Mine Price of Fines		51%-55%	869.29	55%-58%	1538.78	58%-60%	2266.01	60%-62%	2468.57	62%-65%	3020.23	Ex-Mine Price of CLO		<62% Fe (clo any size)	4854.03	62%-65% Fe (5-18 mm)	5105.32	62 to 65 % Fe and above(10-40mm)	4551.60	Appear to be correct.	_____		
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9i	Scrutiny of Annual return on fixed assets	Value of Fixed of Assets: Rs 47,66,33,458	Appear to be correct	_____																						
9k	Scrutiny of Annual	Back Hoe (3.3 cum) : 3	Observed to be correct	_____																						

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	return on mining machineries	nos ; Back Hoe (0.9 cum) : 5 nos ; Wheel Loader: 9 nos; Dumpers (30 T):27 nos ; Water tanker: 3 nos; Crusher: 2 nos; Dozer: 1nos Motor Grader: 1 nos. Blast Hole Drill: 1nos		
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**(10) Violation observed during current inspection and compliance position of earlier violation pointed out:**

(a) Compliance position of earlier violation pointed out: During last inspection dated 11/01/2023, the violation of rules 11(1), 12(4) and 33 of MCDR 2017 were pointed out and subsequently, said rules complied on 29/3/23 (Rule 33 ) and 16/10/23 (Rules-11(1) & 12(4)).

(b) During current inspection: The violations of Rules 37 (2), 45(7) and 47 of MCDR 2017 have been observed and the violation letter issued on 18/10/23.

**(11)** On-line validation of star rating of templates submitted under rule 35 (FY-2022-23) has been made on 18/10/23 for four star at RO level.

**(12)** The lessee has submitted DAI/drone survey data under rule 34A for FY 22-23 on 30/06/23.

Date:18/10/2023

(Prashant S. Hegde)  
Regional Mining Geologist