

**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	Nadidih Iron and Mn-ore Mine
2	Date of inspection	8/02/2024
3	Name of inspecting officer	Prashant S Hegde, RMG
4	Name accompanying mine officials	S/Shri Biswanath Sahoo, Agent & QP, Abani Kumar Dash, Geologist, Manjit Natekar Mines Manager and other mine officials.
5	Last date of Inspection & Officer	9/12/2023 Shri Arun Kumar, RCOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	117.206 Ha. (85.829 Ha Forest + 31.377 Ha Non- forest)
7	Minecode	30ORI13073
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/329/2011
9	Name of the lessee, Address, phone, email and fax number	M/s ESL STEEL LIMITED At-Siyaljori, Post-Jogidih PS-Chandankyari BOKARO, JHARKHAND-828303 Email Id-Navnath.Vhatte@vedanta.co.in Phone No. 0674-2575702/9765565531
10	Village	RENGALBEDA & NADIKASIRA
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	BARBIL
18	Date of Grant of Mining Lease	17.11.2021
19	Date of Execution	20.11.2021
20	Date of opening of Mine	26.11.2021
21	Date of expiry	19.11.2071
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Ashish Gupta M/s ESL Steel Limited Siyaljori, PO-Jogidih, OP-Bangaria Bokaro Steel City Jharkhand-828303 Email-id: Ashish.Gupta3@vedanta.co.in <u>Phone No. 7763807222</u> Date of Appointment: 26.10.2023
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Biswanath Sahoo Nadidihi Iron & Mn Ore Mine M/s ESL Steel Limited Village- Nadidihi Taluka-Bonai P.O.-Koira District-Sundargarh Odisha-770048

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		Email: Biswanath.Sahoo@vedanta.co.in Phone: 9049930239 Date of Appointment- 02.11.2023
24	Name of the Mines Manager with Address, mobile no, email, fax number and date of appointment in mine	Shri MANJIT NATEKAR M/s ESL Steel Limited, At-Nadidihi, po-Koira, Taluka-Bonai, district-Sundargarh Odisha-770048 Email-Id- Manjit.Natekar@vedanta.co.in Mob.no. - 9158885898 Date of Appointment- 21.11.2022
25	Name of the Mining Engineer , Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Shri VIVEK SAMBREKAR Diploma in Mining & Mine Surveying Experience- 31 years M/s ESL Steel Limited, Siyaljori, PO-Jogidih, OP-Bangaria Bokaro steel city JHARKHAND-828303 Email-Id- Vivek.Sambrekar@vedanta.co.in Mob.no. -9923176906 Date of Appointment- 20.01.2022
26	Name of the Geologist , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Shri ABANI KUMAR DASH M.Phil. (Geology) Experience- 19 years M/s ESL Steel Limited, Siyaljori, PO-Jogidih, OP-Bangaria Bokaro steel city JHARKHAND-828303 Email-Id- Abani.Dash@vedanta.co.in Mob.no. -9765391978 Date of Appointment- 20.01.2022
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.	Approved Mining Plan Letter No. BBS/SNG/IRON-MN/2167/MP/2022-23 dated 12/05/2022 for period 2022-23 to 2025-26 Lessee had submitted draft modified MP on 16/01/2024 and same was under process.
28	Mineral (s) granted in lease and proved for mining	IRON & MANGANESE ORE (Production proposals of iron ore only)
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	7.451 MTPA (For Production of 6 MTPA of Iron ore + Dry Screening & Crushing of 1.451 MTPA of low-grade iron ore from old stacks/dumps.)

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

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
1a	Backlog of previous year	NIL; 2022-23: 9 nos of BHs with 2700 total meterage.	71 nos core boreholes drilled with 7246 total meterage during FY-23-23; and 13 nos core boreholes drilled with 653 total meterage during FY-23-24	_____
1b	Exploration over lease area for Geological axis 1 or 2.	NIL	Entire potentially mineralized area explored under G1 Level.	G1: 105.059 Ha G-2: 9.647 Ha Area proved as non-mineralized: 42.486 Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	Drilling Partner: M/s Maheshwari Mining Pvt. Ltd. Technical Partner: SRK Mining Services (India) Private Ltd. Expenditure: 370.052 Lakhs	_____
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	2.5 Ha area to be explored as reported.	_____
1e	Balance reserves as on 01.04.2023	NA	Iron Ore (+45 % Fe) reserves: 111: 11,359,375 tonnes Mn-Ore reserves: (+10 % Mn):111: 59,210 tonnes	Based on approved MP dated 12/5/2022.
1f:	General remarks of inspecting Officer on Geology, exploration etc.	The lease area is a part of Pre-Cambrian sedimentary formation of major Horse-shoe shaped Singhbhum-Bonai-Keonjhar iron ore belt/series. The area of the Nadidih block falls in the Upper shale formation of Koira Group. The litho-unit observed as follows: Ferruginous shale, Laterite, Iron ore, Manganiferous shale & Mn-ore and BHJ/BHQ/BHC. Based on exploration data, the		

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		configuration of iron ore body as follows. Iron ore: 1051m X 709m X 60m (average Grade 60.52 % Fe)
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2)Development:--

SL. No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	331935 E to 332156 E & 2426073 N to 2426279 N (i.e. North pit and South Pit)	Broadly within the proposals at lateral extension. However, violation already pointed out on 12/3/2024 for vertical deviation.	NIL
2b	Separate benches in topsoil, overburden and mineral	Separate benches in overburden and minerals ; No top-soil generation;	As per proposals	_____
2c	Stripping ratio or ore to OB ratio	1:0.26 (Based on In-situ-mining & supporting documents of approved MP)	1:0.20	Ratio in tonnes/m3 BD:2.5
2d	Quantity of topsoil generation in m3	No proposals	Nil	_____
2e	Quantity of overburden generation in m3	905,395 m3 (Based on In-situ-mining & supporting documents of approved MP)	535,518 m3 (Draft modified MP submitted on 16/01/2024 and same was under process.)	
2f	General remarks of inspecting Officer on development of pit w.r.t. type of deposit etc	Developments of pits are being carried out as per approved MP dated 12/5/2022. It is an auctioned non-captive mine with 92.3 % Bid premium. Lessee had submitted draft modified MP on 16/01/2024 and same was under process. Violation already pointed out on 12/3/2024 for vertical deviation in development.		

3)Exploitation:--

SL.No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	02 nos. (North Pit & South Pit)	02 nos. (North Pit & South Pit)	<u>South Pit</u> <u>(LxWxD) :</u> 635m X 412m X 61m; <u>North Pit:</u>

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				498m X 336m X 47m
3b	Quantity of ROM mineral production proposed	3,480,765 tonnes	2,633,720 tonnes	Within the limit and auctioned mine.
3c	Recovery of salable/usable mineral from ROM production	86% (2,993,458Tonnes)	84.4 % (2,224,131 Tonnes)	_____
3d	Quantity of mineral reject generation	4,87,307 Tonnes	3,84,693 Tonnes	_____
3e	Grade of mineral reject generation and threshold value declared	MR: 45 to 55 % Fe	MR: 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 by blending based on market demand.
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 &	Drilling and blasting using the wagon drill in Hard	As per proposals.	Wagon drill machine of

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	blasting in mineral benches	rocks only (which comprises about 5 -10% of total handling)		Hyundai 230 LM with 148 HP of 115 mm diameter & Blasting done by using the Class-II type Power gel explosives.																				
3k	Provision of mining machineries in mineral benches	Yes, mining by Excavators & Dumpers Combination.	As per proposals.	_____																				
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9m bench height with 10 to 12 m width	The proposed bench height and width has not been maintained at some places. The violation already pointed out on 12/3/2024 for deviation.	_____																				
3m	Total area covered under excavation/ pits	40.55 Ha	39.911 Ha	_____																				
3n	Ore to OB ratio for the pit/mine during the year	1:0.26 (Based on In-situ-mining & supporting documents of approved MP)	1:0.20	Ratio in tonnes/m3 BD:2.5																				
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>40.55</td> </tr> <tr> <td>Overburden/ Waste dumping</td> <td>20.48</td> </tr> <tr> <td>Mineral Storage</td> <td>6.76</td> </tr> <tr> <td>Area Occupied Infrastructure, plants, buildings , roads etc</td> <td>4.37</td> </tr> </tbody> </table>	Particulars	Total Area(Ha) at the end of FY 2022-23	Area under Mining	40.55	Overburden/ Waste dumping	20.48	Mineral Storage	6.76	Area Occupied Infrastructure, plants, buildings , roads etc	4.37	<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>39.911</td> </tr> <tr> <td>Overburden/ Waste dumping</td> <td>20.48</td> </tr> <tr> <td>Mineral Storage</td> <td>6.76</td> </tr> <tr> <td>Area Occupied Infrastructure, plants, buildings , roads etc</td> <td>4.366</td> </tr> </tbody> </table>	Particulars	Total Area(Ha) at the end of FY 2022-23	Area under Mining	39.911	Overburden/ Waste dumping	20.48	Mineral Storage	6.76	Area Occupied Infrastructure, plants, buildings , roads etc	4.366	_____
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3p	Production of ROM mineral during last	2021-22: Vesting order dated 22/10/2021 (Auction mine of ML expired on 31/3/2020)	2021-22: 236,018 2022-23: 2,633,720 2023-24: 2,207,184 (Upto Jan-24)	Unit: In tonnes; Date of opening of																				

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	five-years period, as applicable	2022-23: 3,480,765 2023-24: 3,369,345		mine on 26.11.2021.
3q	General remarks of inspecting Officer on method of mining etc		Open-cast fully mechinsed mining method is being carried as per approved MP. The proposed bench height and width has not been maintained at some places. The violation already pointed out on 12/3/2024 for deviation. Moreover, lessee had submitted draft modified MP on 16/01/2024 and same was under process.	

4)Solid Waste Management-Dumping:--

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No Topsoil ; OB waste dumping separately; Separate stacking of mineral rejects;	As per proposals.	_____
4b	Location of topsoil, OB & mineral reject dumps	OB: 320164 E to 319912 E 2430500 N to 2430660 N Mineral Reject: 319541 E to 320060 E 2429748 N to 2429966 N	OB: 320160 E to 319920 E 2430510 N to 2430660 N Mineral Reject: Broadly as per the proposal.	Mineral Reject is stored separately and utilized as per Market demand.
4c	Number of dumps within lease area and outside lease area	One dump within the lease area. Outside ML: NIL	One dump within the lease area. Outside ML: NIL	_____
4d	Location of dumps w.r.t. ultimate pit limit	NE & partly NW Part of lease area (Part of Dump within the UPL)	As per the proposals.	_____

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4e	Number of active & alive dumps	One active dump only.	One active dump only.	—
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; Retaining wall or garland drain all along dump	Constructed Retaining wall or garland drains all along dump were well maintained.	—
4i	Length of Retaining wall or garland drain all along dump	700 m Retaining wall at toe of dump.	700 m Retaining wall constructed at toe of dump.	—
4j	Number of settling ponds	Nil	Maintenance of Existing Settling Ponds (3 nos)	—
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.		

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	NA	NIL	—
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	NA	NIL	—

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5d	Total area fully reclaimed & rehabilitated	NA	NIL	_____
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Existing pits were not matured by backfilling as ore/mineral not exhausted.		

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 st July 2023	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 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) NA v) Plantation vi) NA	i) Nil ii) 0.4 Ha iii) 780 nos iv) 1,18,156 nos (WML- mainly green-belt Development so far) v) Plantation vi) 5.46 lakhs	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) NIL ii) NIL iii) NIL iv) NIL v) NIL	i) NIL ii) NIL iii) NIL iv) NIL v) NIL	No such proposals of reclamation and rehabilitation by backfilling.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated	i) NIL ii) Nil	i) NIL ii) Nil	NIL

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	(ha) iii) Method of rehabilitation	iii)Nil	iii)Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone will be as per MOEF & CC and SPCB guidelines.	Environmental monitoring in Core zone and buffer zone was carried out as per the proposals and parameters are within the limit.	NIL
6f	General remarks of inspecting Officer on PMCP compliance & progressive closure operation etc	Lessee has implementing PMCP proposals as per approved MP. Clarification for plantation deviation.		

7)Mineral Conservation:---

SL.No	Item	Proposals ((FY 2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting to Fines & CLO 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	Iron Ore of different size (Fines & CLO) and Grade wise sorting and dispatched (Fine Iron Grade range- below 55% Fe, 55-below 58% Fe, 58-below 60% Fe, 60-below 62% Fe & 62-below 65% Fe) and CLO	As per proposals	NIL
7d	Any beneficiation process at mines	None Except dry crushing & screening	As per proposals.	NIL
7e	General remarks of inspecting Officer on mineral conservation & beneficiation issues	Grade-wise soring to fines/CLO & dispatches of ore/mineral as per the proposals 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	No such	Nil	Nil

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	of topsoil	proposals.		
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumping of OB wastes & mineral rejects proposed	Carried out as per approved proposals.	Mineral rejects stored in proposed stack/Stockpile area / blended with Ore having grade > 55 % Fe as per Market demand.
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	Nil
8f	Baseline information on existence of plantation & additional plantation done	No such proposals during FY 22-23.	780 nos saplings planted in 0.4 Ha area during year 22-23 with cumulative 1,18,156 nos of saplings within ML (as reported).	_____
8g	Survival rate	NA	70 %	_____
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on Haul roads, crushing & screening plant site and dump location etc 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	Regularly submitting the MRs/ARs on-time. Earlier, lessee had already deposited Rs 20000/-- on 23/10/23 for delay in submission of MR Aug-23.	Nil

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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 MANJIT NATEKAR Mining Engineer: Shri VIVEK SAMBREKAR Geologist: Shri ABANI KUMAR DASH	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- 39.911 Ha (2) Used for Waste Disposal- 20.48 Ha (3) Occupied by plant, buildings, residential, welfare, buildings and roads- 4.366 Ha (4) Other Purpose (including Mineral Storage)- 52.449 Ha	Actual also as per AR.	_____																		
9d	Scrutiny of Annual return on afforestation	780 nos	Actual also as per AR	_____																		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Generated during year-22-23 <table border="1"> <tr> <td>Iron Unprocessed Ore (45-55 % Fe)</td> <td>3,84,693 tonnes</td> </tr> <tr> <td>Iron Processed Ore (45-55 % Fe)</td> <td>59,230 tonnes</td> </tr> </table>	Iron Unprocessed Ore (45-55 % Fe)	3,84,693 tonnes	Iron Processed Ore (45-55 % Fe)	59,230 tonnes	Actual also as per AR and being utilized by blending as per Market demand.	_____														
Iron Unprocessed Ore (45-55 % Fe)	3,84,693 tonnes																					
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9f	Scrutiny of Annual return on ROM stock and/or graded ore	As on 31.03.2023 tonnes Stock Iron ROM: 8,32,082 t <table border="1"> <tr> <th colspan="2">Fines closing stock in tonnes</th> </tr> <tr> <td>51%- below 55 % Fe</td> <td>10,897</td> </tr> <tr> <td>55%- below 58%Fe</td> <td>1,12,011</td> </tr> <tr> <td>58%- below 60%Fe</td> <td>10,873</td> </tr> <tr> <td>60%- below 62%</td> <td>51,168</td> </tr> <tr> <td>62%- below 65%Fe</td> <td>40,950</td> </tr> <tr> <th colspan="2">CLO stock in tonnes</th> </tr> <tr> <td><62% Fe (clo any size)</td> <td>1,03,080</td> </tr> <tr> <td>62%- below 65% Fe (10-40mm)</td> <td>27</td> </tr> </table>	Fines closing stock in tonnes		51%- below 55 % Fe	10,897	55%- below 58%Fe	1,12,011	58%- below 60%Fe	10,873	60%- below 62%	51,168	62%- below 65%Fe	40,950	CLO stock in tonnes		<62% Fe (clo any size)	1,03,080	62%- below 65% Fe (10-40mm)	27	Appear to be correct.	_____
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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production: Rs-3779.67 per tonne; Ex-mine price: <table border="1"> <tr> <th colspan="2">Ex-mine Price of Iron ore Fines in Rs per tonne</th> </tr> <tr> <td>51%-</td> <td>2806.8</td> </tr> </table>	Ex-mine Price of Iron ore Fines in Rs per tonne		51%-	2806.8	Cost of Production and ex-mine price i.r.o. Fines and lumps ore were not matching.	V/L already issued on 12/3/24.														
Ex-mine Price of Iron ore Fines in Rs per tonne																						
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		below 55% Fe		
		55%- below 58%Fe	2672.61	
		58%- below 60%Fe	2351.03	
		60%- below 62%Fe	3634.30	
		62%- below 65%Fe	3584.74	
		Ex-mine Price for CLO in Rs per tonne		
		<62% Fe (clo any size)	4778.11	
		62%-65% Fe (10- 40mm)	6198.13	
		Ex-mine Lumps iron ore in Rs per tonne: 58 % to below 60 %Fe: 4497.87 60 to below 62 % Fe: 5809.23		
9i	Scrutiny of Annual return on fixed assets	Fixed Value of Assets: Rs 207,41,65,125	Appear to be correct	_____
9k	Scrutiny of Annual return on mining machineries	Back Hoe: 7 nos; Blast Hole Drill: 1 nos; Wheel Loader:5 nos; Dumpers (100 T):3 nos ; Tippers: 15 nos; Water tanker: 2 nos; Other HEM mach. (Crushers+ Screeners): 8 nos; Generator: 9 nos; Dozer: 2 nos	Observed to be correct.	_____

(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 9/12/23, the violation of rules 11(1), 31(4) and 45(7) of MCDR 2017 were pointed out on 12/3/2024 and the same was under correspondence.

(b) During current inspection: No serious additional violations observed.

(11) On-line validation of star rating of templates submitted under rule 35 (FY-2022-23) has already been made on 31/12/2023 for four star at RO level.

(12) The lessee was submitted DAI/drone survey data under rule 34A for FY 22-23 on 30/6/2023.

Date: 01/04/2024

(Prashant S. Hegde)
Regional Mining Geologist