

**MCDR INSPECTION REPORT**

Date of Inspection: 03/09/2024

**General**

<b>S N</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	Jajang Iron Ore Block
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Area: 546.863 Ha Non Forest Area: 122.215 Ha Total Lease area: 669.078 Ha
3	Mine code	30ORI08119
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/432/2011
5	Name of the lessee, Address, phone, email and fax number	JSW Ltd. Centre Bandra Kurla Complex, Bandra (East) District- Mumbai Suburban State- Maharashtra Phone No: 9437145415 Email: <a href="mailto:tapan.behara@jsw.in">tapan.behara@jsw.in</a> Fax No: 2242863000
6	Village	Jajang , Joribhal ,Palsa(Ka) ,Bandhuabera
7	Taluka/Mandal	Barbil
8	District	Keonjhar
9	Pin code	758035
10	State	Odisha
11	Post office	Barbil
12	Nearest police station	Joda
13	Nearest Railway station	Jaroli Railway Station
14	Date of Grant of Mining Lease	27.06.2020
15	Date of Execution	27.06.2020
16	Date of opening of Mine	27.06.2020
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Gajraj Singh Rathore. M/s JSW Steel Ltd JSW Centre, Bandra Kurla Complex, Bandra(East), Mumbai-400051 Phone-02242861000 Email: <a href="mailto:gajraj.rathore@jsw.in">gajraj.rathore@jsw.in</a> Fax: 02242863000 DOA-19.05.2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Ram Shanker Sharma JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadr sahi, PS- Barbil District- Keonjhar-758035 Phone-+919829529612 Email: <a href="mailto:ram.sharma@jsw.in">ram.sharma@jsw.in</a>

		Fax: 02242861000 DOA-03.01.2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Anukul Chandra Biswal Qualification- B. Tech in Mining Engineering with 1st Class Mines Manager's certificate. (Restricted) JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadrāsahi, PS- Barbil District- Keonjhar-758035 Phone: +919437072501 Email: anukul.biswal@jsw.in Fax: 02242861000 DOA- 20.12.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Alok Kumar Sahoo Qualification- B. Tech in Mining Engineering with 2nd Class Mines Manager's certificate (Restricted). JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadrāsahi, PS- Barbil District- Keonjhar-758035 Phone: +919459006081 Email: alok.sahoo@jsw.in Fax: 02242861000 DOA- 02.04.2023
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Manoranjan Jena Qualification- M.Sc. Geology JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadrāsahi, PS- Barbil District- Keonjhar-758035 Phone: +919439964456 Email: <a href="mailto:manoranjan.jena@jsw.in">manoranjan.jena@jsw.in</a>
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes <b><u>Mining Engineer:</u></b> Sri Alok Kumar Sahoo Qualification- B. Tech in Mining Engineering with 2nd Class Mines Manager's certificate (Restricted). JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadrāsahi, PS- Barbil District- Keonjhar-758035 Phone: +919459006081 Email: alok.sahoo@jsw.in Fax: 02242861000 DOA- 02.04.2023 <b><u>Geologist:</u></b> Sri Manoranjan Jena Qualification- M.Sc. Geology JSW Steel Ltd Plot No – 15, Bhusgaon, At- Bhadrāsahi, 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 Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan (2021-22 to 2024-25) Dated 18.11.2021
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
28	Mineral(s) granted in lease and proved for mining	Hematite (Iron ore)
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Non Captive
32	Environment Clearance grant date & limit of EC	16.5MTPA (12.8MTPA ROM by fresh excavation + 3.7MTPA by old dumps) - 13/03/2015
33	CTO	Iron Ore(ROM)12.8 MTPA -31/03/2025

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.)

S. N.	Item	Proposals for,2023-24	Actual work during 2023-24		Remarks
1a	Backlog of previous year	Nil	Nil		Out of the total 152 holes proposed During the plan period, 36 were in the eastern side of the ML area & that area was found to be non-mineralized as seen in 19 holes drilled. Thus, the further drilling of 17 holes was discontinued and the said area is explored at G2 level owing it to be non-mineralized.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil		
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil		
1e	Balance reserves as on 01.04.2024 (in MT)	NA	(121)	2916810 1	29.168 MT as on 31.03.2024
			(221)	1262332 6	
			<b>Total</b>	<b>4179142 7</b>	
1f	General remarks of inspecting officer on geology, exploration etc.	The potential mineralized area within the mining lease area has already been explored under G1 level of exploration and there was no such proposal for exploration during the reporting year			

		FY 2023-24. As per submitted AR of 2023-24 about 29.168 million tonnes of reserve available in the mine.
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### **Exploration**

### **Development**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	B Block (2425800 to N2426600 & E336400 to 337350E) C Block (N2424020 to N2425000 & E 337240 to E338310)	B Block (N2425850 to N242550 & E336402 to 337325 E) C Block (N2424250 to N2424641 & E 337444 to E338040)	The lessee has been carried out the development work well within the proposed location but could not achieved the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No top soil, Width-10 Length- 9	No top soil, Width-10 Length- 9	
2c	Stripping ratio or ore to OB ratio (T/T)- (2023-24)	1 : 1.15	1 : 1.04	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	--
2e	Quantity of overburden/waste generation in m <sup>3</sup> (2023-24)	6379718 m <sup>3</sup>	3745017 m <sup>3</sup>	The less OB generated is vis-à-vis the production of ROM.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lessee has been carried out the development work well within the proposed location but could not achieved the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances. Hence the lessee has submitted FMCP for the said mining lease with a reason that mining is not economically viable.		

### **Exploitation**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2 Pits (B Block & C Block)	2 Pits (B Block & C Block )	
3b	Quantity of ROM production	12794889 tonnes	8324255 tonnes	The lessee has been carried out

				the development work well within the proposed location but could not achieved the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances.
3c	Recovery of salable/usable mineral from ROM production	11857840 tonnes	7748044 tonnes	The lessee has been carried out the development work well within the proposed location but could not achieved the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances.
3d	Quantity of mineral reject generation	937049 tonnes	576211 tonnes	
3e	Grade of mineral reject generation and threshold value declared	MR:45-55% Threshold value-45%	MR:45-55% Threshold value-45%	
3f	Quantity of sub-grade mineral generation	937049 tonnes	576211 tonnes	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanized 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. Burden, spacing and diameter of	Drilling and blasting in Mineral benches are being carried out with burden, spacing and	

		hole is proposed at 3m, 4m and 150mm respectively.	diameter of hole as per the proposal 3m, 4m and 150mm respectively.	
3k	Provision of mining machinery in mineral benches	Deployment of mining machinery is proposed in mineral benches by Shovel Dumper Combination ROM will be excavated and loaded in the 35T /100T dumper by 2.5 m <sup>3</sup> to 5.5 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 100T dumper by 5.5 m <sup>3</sup> excavators.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, it is proposed to keep the bench height up to 9 mtr 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	237.201 Ha	262.150 Ha	
3n	Ore to OB ratio for the pit/ mine during the year(T/T)	1 : 1.15	1 : 1.04	
		Area under Mining: 237.201 Overburden/ Waste dumping: 32.315 Mineral Storage: 82.428 Infrastructure (Occupied by plants buildings & roads: 38.66 Township: 10.271	Area under Mining: 262.150 Overburden/ Waste dumping: 35.064 Mineral Storage: 58.275 Infrastructure (Occupied by plants buildings & roads: 11.13 Township: 10.271	
3p	Production of ROM mineral during last five-year period, as applicable			
	Year- 2020-21	2020-21:12793624 2021-22: 12794246 2022-23: 12793526 2023-24: 12794889	2020-21: 7194569 2021-22: 11459271 2022-23: 9323105 2023-24: 8324255	
3q	General remarks of inspecting officer on method of mining etc.	The lessee has been carried out the development work well within the proposed location but could not achieved the targeted proposal due constrain for scientific & systematic mining, and		

		lack of statutory clearances. Hence the lessee has submitted FMCP for the said mining lease with a reason that mining is not economically viable.
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### **Solid Waste Management-Dumping**

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil: Nil WD-1: N-2426495 to 2426684 E-337067 to 337345 WD-2: N-2425772 to 2426020 E-337367 to 337650 WD-3: N-2424312to 2424794 E-337171 to 337495 WD-4: N-2425108 to 2425819 E-337938 to 338308 Backfilling (B-2): N-2426709 to 2427271 E-337605 to 337990	Top soil: Nil WD-1: N-2426495 to 2426684 E-337067 to 337345 WD-2: N-2425772 to 2426020 E-337367 to 337650 WD-3: N-2424312to 2424794 E-337171 to 337495 WD-4: N-2425108 to 2425819 E-337938 to 338308 Backfilling (B-2): N-2426709 to 2427271 E-337605 to 337990	
4b	Location of topsoil, OB & mineral reject dumps	Top soil: Nil WD-1: N-2426495 to 2426684 E-337067 to 337345 WD-2: N-2425772 to 2426020 E-337367 to 337650 WD-3: N-2424312to 2424794 E-337171 to 337495 WD-4: N-2425108 to 2425819 E-337938 to 338308 Backfilling (B-2): N-2426709 to 2427271 E-337605 to 337990	Top soil: Nil WD-1: N-2426495 to 2426684 E-337067 to 337345 WD-2: N-2425772 to 2426020 E-337367 to 337650 WD-3: N-2424312to 2424794 E-337171 to 337495 WD-4: N-2425108 to 2425819 E-337938 to 338308 Backfilling (B-2): N-2426709 to 2427271 E-337605 to 337990	

			337990	
4c	Number of dumps within lease area and outside the lease area	Inside Lease area- 9 Nos, Outside Lease area: Nil	Inside Lease area- 9 Nos, Outside Lease area: Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping is proposed outside the ultimate pit limit.	Dumping is carried out outside the ultimate pit limit.	
4e	Number of active & alive dumps	Two, B2, B1Dump	Two, B2, B1Dump	
4f	Number of dead dumps	7 Dead Dumps (Ex-Lessee) B Block - 2 C Block - 5	7 Dead Dumps (Ex-Lessee) B Block - 2 C Block - 5	
4g	Number of dumps stabilized	One, Waste Dump -4	One, Waste Dump -4	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, about 448 mtr of retaining wall and 207 mtr of retaining wall were proposed to construct during the FY 2023-24.	Yes, about 450 mtr of retaining wall and 2500 mtr of retaining wall were constructed around the waste dumps within the lease area during the FY 2023-24.	
4i	Length of Retaining wall or garland drain all along the dump	Yes, about 448 mtr of retaining wall and 207 mtr of retaining wall were proposed to construct during the FY 2023-24.	Yes, about 450 mtr of retaining wall and 2500 mtr of retaining wall were constructed around the waste dumps within the lease area during the FY 2023-24.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	The lessee has been carried out the development work well within the proposed location but could not achieved the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances. Hence the lessee has submitted FMCP for the said mining lease with a reason that mining is not economically viable. However, the lessee has constructed about 450mtr of retaining wall and 2500mtr garland around the waste dumps within the lease area during the reporting year FY 2023-24.		

### **Solid Waste Management-Backfilling**

S.N	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before	16.37 Ha	15.25 Ha	Backfilling is being carried out over the existing



	starting backfilling			backfilled area.
5b	Area under backfilling of mined out area	16.37 Ha	15.25 Ha	Backfilling is being carried out over the existing backfilled area.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	Topsoil generation during the reporting year is nil.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	--
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The lessee has carried out 15.25 ha area of backfilling against proposal of about 16.37 ha area for back filling. The lessee could not achieve the proposed backfilling during the reporting year due to less production and less generation of waste. The lessee could not achieve the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances. Hence the lessee has submitted FMCP for the said mining lease with a reason that mining is not economically viable.		

### **Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(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	i. 6379717 m <sup>3</sup>	i. 3370515m <sup>3</sup>	

	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	ii. 6379717 m <sup>3</sup> iii. Nil iv. Nil v. Nil	ii. 3370515m <sup>3</sup> iii. Nil iv. Nil v. Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 3366 nos of saplings ii) 2023-24= 1.33 Ha. iii) Plantation with 80% survival	i) 6900 nos of saplings ii) 2023-24= 2.76 Ha. iii) Plantation with 72% survival	
6p	Compliance of environmental monitoring (core zone and 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..	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. The lessee could not achieve the proposed backfilling during the reporting year due to less production and less generation of waste. The lessee could not achieve the targeted proposal due constrain for scientific & systematic mining, and lack of statutory clearances. Hence the lessee has submitted FMCP for the said mining lease with a reason that mining is not economically viable.		

### **Mineral Conservation**

S.N	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Saleable Ore: +54 % Fe, Mineral Reject: -	Saleable Ore: +54 % Fe, Mineral Reject: - +45 to 54% Fe are being	

		+45 to 54% Fe were proposed. Grade wise sorting by screening and crushing within lease area are proposed.	carried out and grade wise sorting by screening and crushing within lease area is being carried out.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Saleable Ore: +54 % Fe, Mineral Reject: - +45 to 54% Fe were proposed.	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	Saleable Ore: +54 % Fe, Mineral Reject: - +45 to 54% Fe stocks are being practiced and grade wise sorting by screening and crushing within lease area is being carried out. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year.		

### **Environment**

S. N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	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 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 during the	--

			reporting year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for Over-burden and mineral stacks and other waste rocks are being practiced.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	16.37 Ha	15.25 Ha	Backfilling is being carried out over the existing backfilled area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	3366 Nos of saplings will be planted over 1.33 Ha area with a survival rate of 80% within the lease area.	6900 Nos of saplings have been planted over 2.76 Ha area with a survival rate of 72% within the lease area during the reporting year.	
8g	Survival rate	3366 Nos of saplings will be planted over 1.33 Ha area with a survival rate of 80% within the lease area.	6900 Nos of saplings have been planted over 2.76 Ha area with a survival rate of 72% within the lease area during the reporting year.	
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on Haul roads and transport roads using Water tanker to suppress the dust.	Regular sprinkling of water on Haul roads and transport roads using Water tanker to suppress the dust	--
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. The lessee could not achieve the proposed backfilling during the reporting year due to less production and less generation of waste. The lessee could not achieve the targeted proposal due		

		constrain for scientific & systematic mining, and lack of statutory clearances. Hence the lessee has submitted FMCP for the said mining lease with a reason that mining is not economically viable. However, the lessee has planted 6900 no of saplings over 2.76 Ha area with a survival rate of 72% within the lease area and water sprinkling by water tanker and mobile water sprinklers and permanent 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.
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### **Compliance of Rule 45**

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto July 2024 A.R. Submitted upto FY 2023-24		
S.N	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Sri Anukul Chandra Biswal - Mines Manager 2. Sri Alok Kumar Sahoo - Mining Engineer 3. Sri Manoranjan Jena - Geologist. were present during the inspection.	1. Sri Anukul Chandra Biswal - Mines Manager 2. Sri Alok Kumar Sahoo - Mining Engineer 3. Sri Manoranjan Jena - Geologist. were present during the inspection.	
9d	Scrutiny of Annual return on afforestation	6900 Nos of saplings have been planted over 2.76 Ha area with a survival rate of 72% within the lease area during the reporting year.	6900 Nos of saplings have been planted over 2.76 Ha area with a survival rate of 72% within the lease area during the reporting year.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	576211 tons of mineral reject of +45 to 55% Fe (avg. 53.19% Fe) were	576211 tons of mineral reject of +45 to 55% Fe (avg. 53.19% Fe) were	

		generated during FY 2023-24.	generated during FY 2023-24.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock: 437865.000 Production: 8324255.000 tons Closing Stock : 2453850.000	Opening Stock: 437865.000 Production: 8324255.000 tons Closing Stock : 2453850.000	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 4371.21/- furnished in submitted Annul Return for FY 2023- 24.	Cost of production Rs. 4371.21/- furnished in submitted Annul Return for FY 2023- 24.	
9i	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs.5470303422/-, furnished in the annual return of the reporting year.	Fixed Asset: Rs.5470303422/-, furnished in the annual return of the reporting year.	
9k	Scrutiny of Annual return on mining machineries	BACK HOE 1.300 CUM 1 Non Electrical Opencast BLAST HOLE DRILL (ELEC.) 65.000 MM 3 Non Electrical Opencast CRANE 60.000 TONNE 1 Non Electrical Opencast DOZER 452.000 HP 3 Non Electrical Opencast DUMPER 100.000 TONNE 24 Non Electrical Opencast GENERATOR (DIESEL) 16.000 KWH 6 Non Electrical Opencast JEEP/TRACTOR 75.000 HP 4 Non Electrical Opencast MOTOR GRADER 280.000 HP 2 Non Electrical Opencast OTHER HEM MACHINERY 485.000 1 Non- Electrical Opencast SHOVEL (HYDRAULIC)	BACK HOE 1.300 CUM 1 Non Electrical Opencast BLAST HOLE DRILL (ELEC.) 65.000 MM 3 Non Electrical Opencast CRANE 60.000 TONNE 1 Non Electrical Opencast DOZER 452.000 HP 3 Non Electrical Opencast DUMPER 100.000 TONNE 24 Non Electrical Opencast GENERATOR (DIESEL) 16.000 KWH 6 Non Electrical Opencast JEEP/TRACTOR 75.000 HP 4 Non Electrical Opencast MOTOR GRADER 280.000 HP 2 Non Electrical Opencast OTHER HEM MACHINERY 485.000 1 Non- Electrical Opencast SHOVEL (HYDRAULIC)	

		5.500 CUM 8 Non Electrical Opencast WATER TANKER 50000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 899.000 CUM 2 Non Electrical Opencast	5.500 CUM 8 Non Electrical Opencast WATER TANKER 50000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 899.000 CUM 2 Non Electrical Opencast	
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