

I/36063/2024

MCDR INSPECTION REPORT**Date of Inspection: 26.06.2024****General**

S. N.	Particulars	Details
1	Name of the Mine	Gonua Iron Ore Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total lease area- 88.516 Ha. (as per DGPS)/ 86.886 Ha. (as per RoR) Forest- 82.79 Ha Non Forest- 5.726 Ha
3	Mine code	30ORI13069
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 Steel Ltd Plot No-15, Bhusgaon At-Bhadrsahi, PS – Barbil Dist – Keonjhar 758035
6	Village	Gonua and Patabeda
7	Taluka/Mandal	Koira
8	District	Sundargarh
9	Pin code	758035
10	State	Odisha
11	Post office	Koira
12	Nearest police station	Koira
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	01-07-2020
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: gajraj.rathore@jsw.in Fax: 02242863000 DOA-27.05.2022
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- Bhadrasi, PS- Barbil District- Keonjhar-758035

I/36063/2024		Phone-+91-9829529612 Email: ram.sharma@jsw.in 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 Nikhil Behuria Qualification- Bachelor in Arts with First Class Manager Competency certificate having total experience of 21 years JSW Steel Ltd Gonia Iron Ore Mines, At- Gonia, PS- Koira District- Sundargarh, Phone: +91-8342942172 Email: nikhil.behuria@jsw.in DOA-04.04.2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Sanjay Kumar Qualification- B. Tech in Mining with a total experience of 6.10 years JSW Steel Ltd Gonia Iron Ore Mines, At- Gonia, PS- Koira District- Sundargarh, Phone: +91-8260759573 Email: sanjay1.kumar@jsw.in DOA-20.04.2021
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Dikshit Kumar Das Qualification- M.Sc. Applied Geology with a total experience of 20 years JSW Steel Ltd Gonia Iron Ore Mines, At- Gonia, PS- Koira District- Sundargarh, Phone: +91-7085302679 Email: dikshit.das@jsw.in DOA-18.03.2023
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	<u>Mining Engineer:</u> Sri Sanjay Kumar Qualification- B. Tech in Mining with a total experience of 6.10 years JSW Steel Ltd Gonia Iron Ore Mines, At- Gonia, PS- Koira District- Sundargarh,

I/36063/2024		Phone: +91-8260759573 Email: sanjay1.kumar@jsw.in DOA-20.04.2021 <u>Geologist:</u> Sri Dikshit Kumar Das Qualification- M.Sc. Applied Geology with a total experience of 20 years JSW Steel Ltd Gonua Iron Ore Mines, At- Gonua, PS- Koira District- Sundargarh, Phone: +91-7085302679 Email: dikshit.das@jsw.in DOA-18.03.2023
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan - MP/A/20-ORI/BHU/2020-21/2039, dated 05.11.2020 for the period - 2020-21 to 2024-25 Modified Mining Plan - MPM/A/26-ORI/BHU/2021-22/1517, dated 22.02.2022 for the period - 2022-23 to 2024-25
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)	A
31	Captive/Non Captive	Captive

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

Exploration

S.N.	Item	Proposals for 2023-24	Actual work during 2023- 24	Remark
1a	Backlog of previous year	2023-24: 16 no of borehole proposed	2023-24: During the reporting year 18 no of bore holes	

I/36063/2024

			were drilled.	
1b	Exploration over lease area for Geological axis 1 or 2.	Entire lease area of 86.886 Ha/88.516 Ha. to be converted to G1 level of exploration.	Out of the entire lease area of 86.886 Ha/88.516 Ha., available forest clearance area has been broadly explored under G1 level of exploration.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	JSW Steel Limited & 139.980Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	86.886 Ha/88.516 (G2) to (G1)	G1-55.94 Balance area- 32.57Ha	
1e	Balance reserves as per latest approved document in (Tonnes)	--	122: 96443217 tons as on 01.04.2024	
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee has carried out the exploration proposal during the reporting year. However, the lessee will not be able to complete the entire lease area of 86.886 Ha/88.516 Ha. under G1 level of exploration. Outcome the ongoing /completed exploration showing a decreasing trend in the resource/reserve and the same will be updated in the upcoming RoMP.		

Development

S. N.	Item	Proposals for 2023- 24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	Gonua-E331757 to E332220 and N2424878 to N2425283 Patabeda - E331905 to 332180 and N2425720 to 2425806	Gonua-E331800 to E 332150 and N 2424900 to N 2425200 Patabeda- No working.	Due non obtaining of forest clearance the lessee could not work in the proposed Patabeda Quarry.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil – Nil Separate benches in overburden & mineral	Top Soil – Nil Separate benches in overburden & mineral	

I/36063/2024

		proposed	carried out & maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.21	1: 0.56	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	207769 Cum.	175000 Cum.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lessee has proposed development and production from 2 no of quarries. Due to want of FC, the lessee could not able to work in the proposed Patabeda quarry. The lessee has also not maintained the proposed production target during the reporting year due to not obtaining the environment clearance. However the lessee has achieved the MDPA quantity during the reporting year.		

Exploitation

S. N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	2 Pits (Gonua & Patabeda Quarry)	1 Pit (Gonua Quarry)	
3b	Quantity of ROM mineral production proposed	2000000 Tonnes	629513 Tonnes	
3c	Recovery of salable/usable mineral from ROM production	1700000 Tonnes	579513 Tonnes	
3d	Quantity of mineral reject generation	300000 Tonnes	50000 Tonnes	
3e	Grade of mineral reject generation and threshold value declared	MR: 45-55% Fe Threshold value- 45% Fe	MR: average 52.58% Fe Threshold value- 45% Fe	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
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 & blasting in mineral benches proposed with Burden , Spacing, Hole Diameter	Drilling & blasting in mineral benches are carried out with Burden , Spacing, Hole Diameter	

I/36063/2024

		to be 3mm, 4mm and 150mm respectively.	to be 3mm, 4mm and 150mm respectively	
3k	Provision of mining machineries in mineral benches	Deployment of mining machineries is proposed in mineral benches by Shovel Dumper Combination. ROM will be excavated and loaded in the 35T dumper by 2.5 m ³ excavators.	Deployment of mining machineries is done in mineral benches by Shovel Dumper Combination. ROM is excavated and loaded in the 35T dumper by 2.5 m ³ excavators	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 9m is proposed in overburden & mineral.	Bench height of 9m is maintained in overburden & mineral	
3m	Total area covered under excavation/pits	25.819 Ha	23.7033 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.21	1: 0.56	
3o	Total area put in use under different heads at the end of year	As per approved Mining Plan (FY 2023-24) Area under excavation: 23.798 Ha. Waste Dump: 1.640 Ha. Infrastructure and roads: 2.153 Ha. Mineral Storage: 9.432 Ha. Total: 37.023 Ha	As on 31.03.2024 Area under excavation: 23.703 Ha. Waste Dump: 1.640 Ha. Infrastructure and roads: 2.153 Ha. Mineral Storage: 9.6845 Ha. Total: 37.1808 Ha	
3p	Production of ROM mineral during last six-year period, as applicable	2020-21: 1502700 tons 2021-22: 2000010 tons 2022-23: 2000000 tons 2023-24: 2000000 tons	2020-21: 774577 tons 2021-22: 960730 tons 2022-23: 340542 tons 2023-24: 629513 tons	
3q	General remarks of inspecting officer on method of	The lessee has proposed development and production from 2 no of quarries. Due to want of FC, the lessee could not able to work in the proposed Patabeda quarry. The lessee has also not maintained the proposed production target during the reporting year due to not obtaining the environment clearance. However the lessee has achieved the MDPA quantity during the reporting year.		

Solid Waste Management-Dumping

S. N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of	Separate dumping of	Separate dumping of	

I/36063/2024	topsoil, OB & mineral reject (Rule 33, 37)	OB & mineral reject were proposed.	OB & stacking of mineral reject are being practiced.	
4b	Location of topsoil, OB & mineral reject dumps	Top Soil: Nil OB: N 2425242 to N 425372 E 331805 to E 331937	Top Soil: Nil OB: N 2425242 to N 425372 E 331805 to E 331937	Broadly found in order.
4c	Number of dumps within lease area and outside lease area.	Within Lease: Two Out-side Lease - Nil	Within Lease: Two Out-side Lease - Nil	
4d	Location of dumps w.r.t. ultimate pit limit	Dumping is proposed inside ultimate pit limit.	Dumping is done inside ultimate pit limit.	
4e	Number of active & alive dumps	One- Waste Dump 2	One- Waste Dump 2	
4f	Number of dead dumps	One- Waste Dump 1	One- Waste Dump 1	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	There was no proposal for construction of retaining wall and garland drain during the reporting year.	There was no proposal for construction of retaining wall and garland drain during the reporting year. However, maintenance of existing retaining wall and garland drains are being carried out during the reporting year.	
4i	Length of Retaining wall or garland drain all along dump	There was no proposal for construction of retaining wall and garland drain during the reporting year.	There was no proposal for construction of retaining wall and garland drain during the reporting year. However, maintenance of existing retaining wall and garland drains are being carried out during the reporting year.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on	The lessee has proposed development and production from 2 no of		

1/36063/2024	waste management dump	quarries. Due to want of FC, the lessee could not able to work in the proposed Patabeda quarry. The lessee has also not maintained the proposed production target during the reporting year due to not obtaining the environment clearance. However, the lessee has carried out the periodical maintenance of existing retaining wall and garland drains as proposed in the reporting year. till the date of inspection.
--------------	-----------------------	--

Solid Waste Management-Backfilling

S. N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The mine is not mature for backfilling and there was no such proposal for back filling. The lessee has carried out as per the proposal during the reporting year.		

Progressive Mine Closure Plan

S .N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	As the reporting year is yet to be completed and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.	
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	i)- Nil ii)- Nil iii)- Nil iv)- Nil	i)- Nil ii)- Nil iii)- Nil iv)- Nil	

1/36063/2024	v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	v)- Nil vi)- Nil	v)- Nil vi)- Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i)- Nil ii)- Nil iii)- Nil iv)- Nil v)- Nil vi)- Nil	i)- Nil ii)- Nil iii)- Nil iv)- Nil v)- Nil vi)- Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 1000 nos of saplings ii)2023-24= 0.24 Ha. iii) Plantation (Expenditure Rs. 39,000/-)	i) 1000 nos of saplings ii)2023-24= 0.30 Ha. iii) Plantation (Expenditure Rs. 7,30,000/-)	
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 is carried out as per MOEFCC and SPCB guidelines.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year till the date of inspection. Existing quarries available within the lease area and not mature for backfilling during the reporting year.		

Mineral Conservation

S. N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Saleable Ore: +55 % Fe, Mineral Reject: - +45 to 55% Fe were	Saleable Ore:+55 % Fe, Mineral Reject:- +45 to 55% Fe are being carried out.	

I/36063/2024

		proposed.		
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: +55 % Fe, Mineral Reject: - +45 to 55% Fe were proposed.	Saleable Ore:+55 % Fe, Mineral Reject:- +45 to 55% Fe are being carried out and Iron ore of different size and grade are being dispatched to different plants.(Grade Range- 55-58%, 58-60%, 60-62% & 62-65%))	
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: +55 % Fe, Mineral Reject: - +45 to 55% Fe stocks are being practiced. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year.		

Environment

S. N.	Item	Proposals for 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	No such proposal for the reporting year.	Nil	
8b	Concurrent use or storage of topsoil	No such proposal for the reporting year.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for 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	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Nil	Nil	
8f	Baseline information on existence of plantation &	1000 Nos of saplings will be planted over	1000 Nos of saplings will be	

I/36063/2024	additional Plantation done	0.24 Ha area with an expenditure around Rs. 39,000/-.	planted over 0.30 Ha area with an expenditure around Rs. 7,30,000/-.	
8g	Survival rate	70-80%	85%	
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 are in practice.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee could not achieve the proposed production target during the reporting year due to not obtaining the environment clearance. However, the lessee has planted 1000 no of saplings over 0.3 Ha area with a survival rate of 85% within the lease area and water sprinkling by water tanker over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto..... May 2024 A.R. Submitted upto..... Not submitted for the current reporting year till the date of inspection.		
S. N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.
9c	Scrutiny of Annual return on land use pattern for area under	NA	NA	Although the reporting year has been completed,

I/36063/2024	pits, reclaimed area, dumps etc.			the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.
9d	Scrutiny of Annual return on afforestation	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.

I/36063/2023g

	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.
9i	Scrutiny of Annual return on fixed assets	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.
9k	Scrutiny of Annual return on mining machineries	NA	NA	Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 26.06.2024.