

INDIAN BUREAU OF MINES
MCDR INSPECTION REPORT
Bhubaneswar Region

General:

S.N	Particulars	Details
1.	Name of the Mine	Kolmong Iron & Manganese Ore Block
2.	Date of Inspection	10.11.2024
3.	Name of Inspection officer:	Sri Rohita Sethi, ACOM
4.	Name of official accompanying inspection	Sri Dasarathi Behera, Mines Manager and other mine officials
5.	Last date of Inspection & Officer	27.02.2024, Sh. Sanjib Mohapatra, SMG.
6.	Total Lease Area (Ha) with breakup of Non-forest and forest land	218.530 Ha(as per ROR) 218.481 Ha (as per DGPS) Forest-155.326 (2.206K.F,153.120 D.L.C) Non Forest-63.204 Ha
7.	Minecode	40ORI13060
8.	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5554/2011
9.	Name of the lessee, Address, phone, email and fax number	M/S YAZDANI STEEL & POWER Ltd. Fortune Tower,5 th Floor, A-Zone,Chandrasekhpur BHUBANESWAR-751023,ODISHA Email- mines@yazdanisteel.com , Mob-9438887898
10.	Village	Kolmong
11.	Taluka/Mandal	Koira
12.	District	Sundergarh
13.	Pin code	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	01/07/2020
19.	Date of Execution	01/07/2020
20.	Date of opening of Mine	01/12/2020
21.	Date of first Renewal, if applicable and its period & expiry	NA
22.	Date of second Renewal, if applicable and its period & expiry	NA
23.	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
24.	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr.Meraj Yusha Fortune Tower, 5 th Floor, A-Zone,Chandrasekhpur BHUBANESWAR-751023,ODISHA Email- mines@yazdanisteel.com ,

		(0674)-2300061, Date-17/06/2020
25.	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Binod Kumar Acharya Fortune Tower,5 th Floor, A-Zone,Chandrasekhpur BHUBANESWAR-751023,ODISHA Email-mines@yazdanisteel.com Mob No-09438887898
26.	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Dasarathi Behera At-kolmong,Po/Ps-Koira,Sundergarh,ODISHA, 770048,Mob No-9437078702 Email- dasarathi@yazdanisteel.com
27.	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Dasarathi Behera FCC(R),28Years of experience At-kolmong,Po/Ps-Koira,Sundergarh,ODISHA, 770048,Mob No-9437078702 Email- dasarathi@yazdanisteel.com
28.	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Binod Kumar Acharya M.Sc.-M.Phil (Geology), (Under Rule 15 of MCR,2016), 25Years of experience Fortune Tower,5 th Floor, A-Zone,Chandrasekhpur BHUBANESWAR-751023,ODISHA Email-mines@yazdanisteel.com Mob No-09438887898
29.	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Whole Time Employee
30.	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Letter No-MP/A/26-ORI/BHU/2020-21 dated 20/11/2020 (From 2020-21 to 2024-25)
31.	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
32.	Mineral(s) granted in lease and proved for mining	Iron & Manganese
33.	Method of Mining(Open cast, Underground)	Open cast
34.	Category (Fully Mechanised, Others or Manual)	A-OTFM
35.	Captive/Non Captive	Non Captive

Exploration

S. N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	Drilling of bore hole 234 no's in 2023-24.	54 bore holes with 1628m drilled.	A violation letter was issued vide letter dated 01.04.2024 for contravention

				of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection.
1b	Exploration over lease area for Geological axis 1 or 2.	G2: 43.785 Ha & Unexplored: 105.106 Ha	NA	Nil
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	NA	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2: 43.785 Ha & Unexplored: 105.106 Ha	105.106	Nil
1e	Balance reserves as per latest approved document	As on 01.10.2020 Mn. Ore:122-3424605 222-297792 Iron Ore:122-1257885 222-139765	Reported as on Mn. Ore:122-3281839 222-297792 Iron Ore:122-1228591 222-139765	Violation issued
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee has not carried out the proposed exploration till the date of inspection during the reporting year. A violation letter vide letter dated 01.04.2024 has already been issued for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection. The details of Mineral Reserves and Resources estimated for manganese ore at the end of the year has not reported correctly as per the last approved document after depleting the production from the Reserve part achieved subsequently up to 31/03/2024, for which violation issued, under Rule 45(7 A)(i).		

Development

S. N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	New Pit, Quarry 6 & 7, Dhandaria Pit and Magazine Pit	Magazine Pit	Violation was issued vide letter dated 01.04.2024 for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches in topsoil, overburden and	Carried out only in Magazine Pit	Nil

		mineral proposed		
2c	Stripping ratio or ore to OB ratio	1:0.93 for Iron Ore & 1:3.470 for Manganese Ore	1:0.38 (Overall)	Nil
2d	Quantity of topsoil generation in m ³	Nil	Nil	Nil
2e	Quantity of overburden generation in m ³	233333 cum. for Iron Ore & 139140 Cum for Manganese Ore	24407.89Cu m	Nil
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The lessee has proposed to carryout development and production of both Iron and manganese ore from 4 no of quarries during the reporting year. Whereas the lessee has carried out development and production from only one quarry and proposed production quantity has not achieved. Violation letter was issued vide dated 01.04.2024 for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection.		

Exploitation

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	Four	One	A violation letter was issued vide dated 01.04.2024 for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection.
3b	Quantity of ROM mineral production proposed	Iron: 250000 tons & Mn.: 40000 tons	Iron: 29294 tonnes & Mn.: 33512 tonnes	Violation issued
3c	Recovery of salable/usable mineral from ROM production	Iron: 62500tonnes & Mn.: 36000tonnes	Not reported Correctly	Violation issued.
3d	Quantity of mineral reject generation	Iron: 187500 tonnes & Mn.: 4000 tons	Not reported Correctly	Violation issued.
3e	Grade of mineral reject generation and threshold value declared	Mn: 10-25% Mn Fe-45-55% Fe Threshold value declared: Mn 1-10% Mn Fe-45% Fe	Not reported Correctly	Violation issued.
3f	Quantity of sub-grade mineral generation	Same as Para 3d		

3g	Grade of sub-grade mineral generation	Same as Para 3e		
3h	Manual / Mechanised method adopted for segregating from ROM	Both Manual & Mechanized	Both Manual & Mechanized method adopted	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	3-4 m drill holes with 100-110mm dia and blasting by using class – 2 and class – 6 explosives. NONEL system of initiation is used.	Carried out as per proposal	Nil
3k	Provision of mining machineries in mineral benches	Excavator and Dumper combination.	Carried out as per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches – 4m	As per proposal	Nil
3m	Total area covered under excavation/pits	57.916Ha(Up to the end of the plan period)	21.528 Ha	Nil
3n	Ore to OB ratio for the pit/ mine during the year	1:0.93 for Iron Ore &1:3.470 for Manganese Ore	1:0.38 (Overall)	Nil
3o	Total area put in use under different heads at the end of year	Up to end of the plan period Area under Mining-57.916ha Waste dumping-10.00ha Mineral Storage-3.56ha Infrastructure-0.051ha Roads-2.380ha Green Belt-4.950ha Mine Camp-2.10ha	Mining -21.528 Ha Waste disposal-14.607 Ha Infrastructure (occupied by plant buildings, residential, roads.) -4.010 Ha Other-14.18ha Reclaimed rehabilitated-7.274	Not reported correctly violation issued
3p	Production of ROM mineral during last five year period, as applicable	(2020-21) Iron Ore-0.00 MT, Mn. Ore- 40,000 MT (2021-22) Iron Ore-1,99,895 MT, Mn. Ore- 40,000 MT (2022-23) Iron Ore-3,00,000 MT, Mn. Ore-40,000 MT	(2020-21) Iron Ore-0.00 MT, Mn. Ore- 15,828 MT (2021-22) Iron Ore-0.00 MT, Mn. Ore- 32,873 MT (2022-23) Iron Ore-0.00 MT, Mn. Ore-37,368.320 MT (2023-24) Iron	

		(2023-24) Iron Ore-2,50,000 MT, Mn. Ore-40,000 MT (2024-25) Iron Ore-3,00,000 MT, Mn. Ore-40,000 MT	Ore-29,294 MT, Mn. Ore-33,512 MT	
3q	General remarks of inspecting officer on method of	<p>The lessee has proposed to carryout development and production of both Iron and manganese ore from 4 no of quarries during the reporting year. Whereas the lessee has carried out development and production from only one quarry and proposed production quantity has not achieved. A violation letter was issued vide letter dated 01.04.2024 for contravention of Rule 11(1) of MCDR 2017 in this regard.</p> <p>Total production of manganese ore shown as 33512tonnes however in item no.3 of part (V) (General Geology and Mining) of submitted annual return (2023-24) subgrade-Mineral Reject(Manganese ore) , total mineral reject shown as 38509.89 tonnes (7051 tonnes from unprocessed ore+31458.89tonnes from processed ore). For which violation issued.</p> <p>Total production of Iron ore shown as 29294tonnes however in item no.3 of part (V) (General Geology and Mining) of submitted annual return (2023-24) subgrade-Mineral Reject (Iron ore) , total mineral reject shown as 45629.8 tonnes (29294 from unprocessed ore+16335.80 from processed ore) for which violation issued.</p> <p>From the last approved mining plan it is observed that area put on use at start of plan period for under mining-34.479ha, OB dump site-6.660ha, mineral storage-3.560ha, infrastructure-0.051ha, roads1.74ha.green belt-4.95ha and mine camp 2.100ha whereas in submitted annual return for the year 2023-24 it is mentioned that area under current (O-C) working-21.528ha, use for waste disposal-14.607ha. Reclaimed-rehabilitated 7.274ha, for which violation issued.</p>		

Solid Waste management-Dumping

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Separate dumping for OB & mineral reject proposed.	Carried out as per proposal	Nil
4b	Location of topsoil, OB & mineral reject dumps	Dump-1: 325220E-325280E & 2427660N-2427920N Dump-2: 325780E-	Dump-1: 325220E-325280E & 2427660N-2427920N Dump-2: 325780E-325880E & 2428700N-	Nil

		325880E & 2428700N-2428800N Dump-3: 326150E-326330E & 2427700N-2427920N	2428800N Dump-3: 326150E-326330E & 2427700N-2427920N	
4c	Number of dumps within lease area and outside lease area	Within Lease Area – 03 Outside Lease Area - Nil	Within Lease Area – 03 Outside Lease Area - Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit	Out Side the UPL	Out Side the UPL	Nil
4e	Number of active & alive dumps	03	03	Nil
4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps stabilized	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Maintenance Proposed	Carried out as per Proposal	Nil
4i	Length of Retaining wall or garland drain all along dump	Maintenance	Periodical Maintenance was carried out.	Nil
4j	Number of settling ponds	3 existing	Periodical Maintenance was carried out	Nil
4k	Specific comments of inspecting officer on waste dump management	Lessee has not carried out the development and production as per the proposal; hence generation of waste is not as per the proposal. However, disposal of generated waste was well within the proposal during the reporting year till the date of inspection. Periodical Maintenance of garland drain, retaining wall and settling tanks were carried out properly by the lessee till the date of inspection of the reporting year.		

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	3.27 Ha. in Mn. Pit	Nil	Not carried out A violation letter was issued vide letter dated 01.04.2024 for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection.
5b	Area under backfilling of mined out area	3.27 Ha. in Mn. Pit	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	2.50 ha only reclaimed	2.50 ha only reclaimed	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	The lessee has proposed to back fill 65579 cum of waste over 3.27 ha area in quarry 6 & 7 within the reporting year. However the lessee has not carried out. Violation letter was issued vide letter dated 01.04.2024 for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection		

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.	Submitted with in the stipulated time period	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. Nil v. Nil vi. Nil	i. Nil ii. Nil iii. Nil iv. 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. 3.27 Ha ii. 65579 cum iii. Nil iv. Nil v. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil	The lessee has proposed to back fill 65579 cum of waste over 3.27 ha area in quarry 6 & 7 within the reporting year. However the lessee has Nil carried out till the date of inspection.
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= 0.40 Ha. iii) Plantation	i) 1000 no's of saplings ii) 2023-24= Gap plantation iii) Plantation	Nil

6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the lease area.	Air, Noise and Water quality monitoring will be done during the year within the lease area.	Nil
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has proposed to back fill 65579 cum of waste over 3.27 ha area in quarry 6 & 7 within the reporting year. However, the lessee has not carried out. Violation letter vide letter dated 01.04.2024 has already been issued for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection. Further the lessee has carried out partly afforestation and environmental monitoring as per the proposal 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	Iron: Saleable Ore: +55 % Fe, Mineral Reject:- +45 to 55% Fe Manganese: Saleable Ore: +20 % Mn., Mineral Reject:- +10 to 20 % Mn. were proposed.	Iron: Saleable Ore: +55 % Fe, Mineral Reject:- +45 to 55% Fe Manganese: Saleable Ore: +20 % Mn., Mineral Reject:- +10 to 20 % Mn. are being carried out.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Both, Manual for Manganese ore and Mechanized for Iron Ore.	Carried out as per proposal. Manual for Manganese ore and Mechanized for Iron Ore.	Nil
7c	Different grade of mineral sorted out at mines	Iron: Saleable Ore: +55 % Fe, Mineral Reject:- +45 to 55% Fe Manganese: Saleable Ore: +20 % Mn., Mineral Reject:- +10 to 20 % Mn.	Iron: Saleable Ore: +55 % Fe, Mineral Reject:- +45 to 55% Fe Manganese: Saleable Ore: +20 % Mn., Mineral Reject:- +10 to 20 % Mn.	Nil
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 for iron ore and Saleable Ore: +20 % Mn., Mineral Reject:- +10 to 20 % Mn. for manganese ore area being practice. Further no beneficiation process was proposed. Only crushing and screening are being carried out for iron ore and manual sorting are being carried out for Manganese ore 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 Generation of top soil was Proposed	Not Generated	Nil
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes, Proposed	Yes, Carried out as per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Not carried out till the date of inspection.	Not carried out till the date of inspection. A violation letter vide letter dated 01.04.2024 has already been issued for contravention of Rule 11(1) of MCDR 2017 in this regard, based on the last inspection.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Back filling over 3.27 Ha. Of mining pit was Proposed	Not carried out till the date of inspection.	Nil
8f	Baseline information on existence of plantation & additional Plantation done	1000 Saplings	1000 saplings were planted.	Nil
8g	Survival rate	Not proposed	70%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads proposed.	Water sprinkling by 8KL water tanker over haul roads has been carried out during the reporting year.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee has proposed to back fill 65579 cum of waste over 3.27 ha area in quarry 6 & 7 within the reporting year. However the lessee has not carried out till the date of inspection. A violation letter vide letter dated		

		01.04.2024 has already been issued for contravention of Rule 11(1) of MCDR 2017 in this regard. However, the lessee has planted 100 no's of saplings with a survival rate of 75% 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. The aesthetic beauty of the mine area is good.
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Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns and annual return for reporting year submitted ontime.		
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	Mining Engineer-1 Geologist-1	Actual also the same	-----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -21.528 Ha Waste disposal- 14.607 Ha Infrastructure (occupied by plant buildings, residential, roads.) -4.010 Ha Other-14.18ha Reclaimed rehabilitated- 7.274	Reported incorrectly	Violation issued
9d	Scrutiny of Annual return on afforestation	1000 no's of saplings	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not reported correctly	Not reported correctly	Violation issued
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock(Mn)- 1103tonnes Below 25%Mn- 74809.17tonnes 25to below35% Mn- 3093.17tonnes 35 to below 46%Mn-	Appears to be correct at that time.	-----

		0.7tonnes ROM closing stock(Iron ore)- 3289tonnes 45to below51%Fe fines-16335 Below62%Fe CLO-5675		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Below 25%Mn- 3087.97 25to below35% Mn-7500.02 35 to below 45to below51%Fe fines-1151 Below62%Fe CLO-4543	Appears to be correct	-----
9i	Scrutiny of Annual return on fixed assets	Value of fixed assets- Rs.339,23,035/-	Appears to be correct	-----
9k	Scrutiny of Annual return on mining machineries	Excavator- 04no's Dumper-04no's Water tanker- 02no's Wheel loader-01	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 27/02/2024, the violation of rule 11(1) of MCDR 2017 was pointed out and subsequently, said rule complied on 10/06/2024.

(b) During current inspection: The violation of Rule 45(7) of MCDR 2017 has been observed and the violation letter issued on 12/12/2024.

(11) The lessee was submitted DAI/drone survey data under rule 34A for FY 23-24 on 28/06/2024.

Rohita Sethi
Assistant Controller of Mines