

**INDIAN BUREAU OF MINES  
MCDR INSPECTION REPORT**

**Bhubaneswar Region**

**General**

SL. No.	Particulars	Details
1.	Name of the Mine	Tantra Iron Ore Mines
2.	Date of Inspection	19.10.2024
3.	Name of Inspection officer:	Sh. Rohita Sethi, Assistant Controller of Mines
4.	Name of official accompanying inspection	Sh. Sujal Kundu, Mines Manager Sh. M.R. Mishra, Surveyor
5.	Last date of Inspection & Officer	26.02.2024, Sh. Sanjib Kumar Mohapatra, SMG
6.	Total Lease Area (Ha) with breakup of non-forest and forest land	Total lease area 72.560 Forest- 72.419 Non Forest- 0.141
7.	Mine code	30ORI13025
8.	IBM Registration Number under rule 45 of MCDR, 2017	IBM/6694/2011
9.	Name of the lessee, Address, phone, email and fax number.	M/S Korp Resources Pvt. Ltd 161,Rabindra Sarani, Kolkata, West Bengal, 700007 Fax No.- 03322683832 Ph No. 03322699196, onkargroup@hotmail.Com
10.	Village	Tantra
11.	Taluka/Mandal	Koira
12.	District	Sundargarh
13.	Pincode	770042
14.	State	Odisha
15.	Post office.	Tensa
16.	Nearest police station	Lahunipara
17.	Nearest Railway station	Barsuan
18.	Date of Grant of Mining Lease	22.11.1985
19.	Date of Execution	22.11.1985
20.	Date of opening of Mine	22.11.1985
21.	Date of expiry	21.11.2035, as per section 8(A) MMDR amendment Act, 2015.

22.	Name of the <b>Nominated Owner</b> with Address, phone, email, fax number and date of appointment	Sh. Prahalad Roy Goenka 161 Rabindra sarani, kalkata-7 Mob. 9831094640 Mail id-onkargroup@hotmail.com
23.	Name of the <b>Mine Agent</b> with Address, phone, email, fax number and date of appointment	NA
24.	Name of the <b>Mines Manager</b> with Address, mobile no, email, fax number and date of appointment in mine	Sh. Sujal Kundu. k.k.Bhawan,Tensa, P.O. Tensa Dist-Sundargarh,Odisha-770042
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	Sh. Sushant Kumar Sahoo K.K.Bhawan,Tensa, P.O. Tensa Dist-Sundargarh,Odisha-770042
26.	Name of the <b>Geologist</b> , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Sh. Chandra Sekhara Mishra. KK Bhawan, At/,Po-Tensa Dist-Sundargarh,Odisha-770042 Mob.9437964493 Mail. csmishraodisha@gmail.com
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.	Existing rule 11 MCDR1988,29-MAR-04 PMCP under 23B(2) for Existing,22-OCT-07 Mining Scheme rule 12 MCDR1988,11-DEC-08 Modif. approved Mining Scheme,03-MAR-10 Mining Scheme rule 12 MCDR1988,19-APR-13 MP review under 17(1) MCR 2016,18-MAY-18 MS modif under MCR 1960,04-AUG-21 Review of Mining Plan vide letter No BBS/SNB/IRON/2177/RMP/2022-23 ated 31.08.2022 for the period 22023-24 to 2027-28
28.	Mineral (s) granted in lease and proved for mining.	Hematite(Iron Ore)
29.	Method of Mining (Opencast, Underground)	Opencast
30.	Category (Fully Mechanized, Others or Manual)	Fully Mechanized,
31.	Captive/Non-Captive	Non Captive

	Present EC Capacity	1,20,000 Mt

**Exploration:---**

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	No Back log	No Back log	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	25 Bore holes, 1250mtr	17 Bore holes 680mtr	Violation issued under Rule 11(1) of MCDR-2017
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Asia Pacific Drilling Services.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-32.10ha. G2-33.616ha. G4-6.634ha. Non-mineralized-51.81ha. Mineralized-14.11ha.	Area to be explored-6.634ha.	Nil
1e	Balance reserves as on 01.04.2024. (Proved + Probable)	As on 01.06.2022 111-2911350 tonnes 211-156875tonnes	111- 2701889 211-156875tonnes	Mineral Reserves and Resources estimated for Iron 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. Violation issued.
1f	General remarks of inspecting officer on geology, exploration etc.	Lessee has not carried out all proposed boreholes during the reporting period and mineral reserves for Iron 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 11(1) and Rule 45 (7).		

**Development:--**

SL.No.	Item	Proposals (FY	Actual work	Remarks
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		<b>2023-24)</b>		
2a	Location of development w.r.t. lease area	2420600-2421500 311600-311920 in Eastern part of the lease area	311780-311900-E, & 2420630-2421100-N)	A violation letter was issued vide dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017 by the earlier I/O.
2b	Separate benches in topsoil, overburden and mineral	Separate benches in overburden and minerals proposed	As per proposal	Nil
2c	Stripping ratio or Ore to OB ratio	1:0.21	1:0.26	Nil
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	51300	31500	Nil
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	A violation letter was issued vide dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017 by the earlier I/O.		

**Exploitation:--**

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	240000tonnes	118711 tonnes	Violation was issued vide letter dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017 based on the last inspection.
3c	Recovery of salable/usable mineral from ROM production	121500 tonnes	117211 tonnes	Nil
3d	Quantity of mineral reject generation	118500 tonnes	6000 tonnes	Violation issued under Rule 11(1) of MCDR,2017
3e	Grade of mineral	+45% Fe to -50%	+45% Fe to -	Nil

	reject generation and threshold value declared	Fe	50% Fe	
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	Mechanized	<b>Mechanized</b>	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Yes deep hole drilling and blasting proposed	Carried out as per proposal	Nil
3k	Provision of mining machineries in mineral benches	Excavator and Dumper combination	As per proposal	Nil
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 6 mtr for both Ore & OB benches.	Height and width of benches were not in order as per the proposal of the approved document.	Violation was issued vide letter dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	9.903	9.90	Nil
3n	Ore to OB ratio for the pit/mine during the year	1: 0.21	1 : 0.26	Nil
3o	Total area put in use under different heads at the end of year	Area under Mining-9.903ha Waste dumping-0.996ha Mineral Storage-4.955ha Infrastructure-1ha Roads-4.148ha Mineral Separation plant-3.550ha	Mining -9.90 Ha Waste disposal-1.50 Ha Infrastructure (Workshop, admin. building etc.) -8.11 Ha Other-2.87 Work done	Nil

		Other-4.278	under PMCP-1.47	
3p	Production of ROM mineral during <b>last five-years period</b> , as applicable	2019-20: 239992 2020-21: 239993 2021-22: 240000 2022-23: 240000 2023-24: 240000	2019-20: 117500 2020-21: 119100 2021-22: 117200 2022-23: 119700 2023-24: 118711	Nil
3q	General remarks of inspecting Officer on method of mining etc.	<p>Height and width of benches were not in order as per the proposal of the approved document, for which violation was issued based on the last inspection.</p> <p>2. During the current inspection it is observed that there is a major variation in grade of Iron Ore (Mineral Reject, +45 to -50% Fe) produced in the mine with respect to the approved proposal, for which violation issued under Rule 11(1) of MCDR,2017.</p> <p>3. As per the approved RMP production proposal for the reporting year was 240,000tonnes however EC quantity was 120000tonnes, for which Lessee has not achieved the proposed production quantity. Also Lessee has applied for modification of the the approved RMP which is under process.</p>		

#### Solid Waste Management-Dumping:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Nil	Nil
4b	Location of topsoil, OB & mineral reject dumps	Dump-1 2420728N-2420800N 311452E -311631E	Dumping- 2420728N-2420800N 311452E -311631E	Nil
4c	Number of dumps within lease area and outside lease area	WML-02 OML-Nil	WML-02 OML-Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit	Outside UPL	Outside UPL	Nil
4e	Number of active &	One	One	Nil

	alive dumps			
4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps stabilized	No Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, Proposed;  Retaining wall: 380 m x 0.5 m x 1 m  Garland Drain: 380 m x 0.5 m x 1 m	Not carried out	Violation was issued vide letter dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017, Based on the last inspection.
4i	Length of Retaining wall or garland drain all along dump	Retaining wall: 380 m x 0.5 m x 1 m  Garland Drain: 380 m x 0.5 m x 1 m	Not carried out	Violation was issued vide letter dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017, Based on the last inspection.
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting Officer on waste dump management	Lessee has not constructed the retaining wall and garland wall within the mining lease area as per the proposal of the approved mining plan during the reporting year. A violation was issued vide letter dated 26/03/2024 for contravention of Rule 11(1) of MCDR 2017.		

#### Solid Waste Management-Backfilling:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from	Nil	Nil	Nil

	mined out area before starting backfilling			
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Existing pit is not matured for backfilling as ore/mineral not exhausted completely.		

**Progressive Mine Closure Plan: ---**

SL.N.	Item	Proposals (FY 2023-24)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	Submitted on 08/072024 along with the Annual Return	Nil
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	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	No Proposal	Nil	Nil



	making water reservoir v) Any other specific means			
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) 3165 nos of saplings till date of inspection ii) 2023-24= 0.40 Ha. 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 has been carried out as per proposal	Nil
6f	General remarks of inspecting Officer on PMCP compliance & progressive closure operation etc	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. Only one active quarry is existing within the lease area and not mature for backfilling during the reporting year.		

**Mineral Conservation:---**

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Saleable Ore:+50 %Fe, Mineral Reject:- +45 to 50% Fe were proposed. Sorting with in the Lease area	Carried out as per proposal	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	Nil
7c	Different grade of mineral sorted out at mines	Saleable Ore:+50 %Fe, Mineral Reject:- +45 to 50%Fe	Carried out as per proposal	Nil
7d	Any beneficiation process at mines	No Proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Saleable Ore: +50 % Fe, Mineral Reject:- +45 to 50% Fe stocks are being practiced. Further no beneficiation process was proposed. Only dry crushing and screening are being carried out during the reporting year.		

**Environment:--**

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No top soil generation	Nil	Nil
8b	Concurrent use or storage of topsoil	NA	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects and fines are proposed	Carried out as per proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done	1000 Nos of saplings will be planted over 0.4 Ha area with a survival rate of 70% within the lease area.	WML-3165 no's saplings have been planted over 0.4 Ha area with a survival rate of 83% OML-50no's saplings have been planted with a survival rate of 60%	Nil
8g	Survival rate	70	83	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads	Water sprinkling by water tanker over haul roads has been carried out during the reporting year	Nil

**Compliance of Rule 45**

SL.No.	Item	COMMENTS	Remarks.
9a	Status of submission of Monthly and Annual returns	Lessee has submitted all monthly returns for the reporting year within the stipulated time period. Annual return for the year 2023-24 has not been submitted by the Lessee within the stipulated time period i.e. before 1st July 2024 for which a fine amount of Rs.80,000/- has been imposed vide this office letter no.	-----

		MCDR-MiFLOFE/5/2022-BBS-IBM_RO_BBS dated 13.11.2024.												
S.N.	Item	COMMENTS		Remarks.										
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh.Sujal Kundu, Mines Manager, Sh. Sushant Kumar Sahoo, Mining Engineer Sh. Sh. Chandra Sekhara Mishra, Geologist		Actual also the same. -----										
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -9.90 Ha Waste disposal- 1.50 Ha Infrastructure (Workshop, admin. building etc.) -8.11 Ha Other-2.87 Work done under PMCP-1.47		Actual also as per AR. -----										
9d	Scrutiny of Annual return on afforestation	WML-3165 no's OML-50no's		Appears to be correct										
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	During year-23-24 (Generated) Iron Unprocessed Ore (45-50 % Fe) 1500tonnes Iron Processed Ore (45-55 % Fe) 4500		Total stacked at the end of the year in respect of unprocessed ore reported incorrectly, for which violation issued. -----										
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<table border="1"> <thead> <tr> <th colspan="2"><b>Fines closing stock in tonnes</b></th> </tr> </thead> <tbody> <tr> <td>45%-below 51%Fe</td> <td>6861.14</td> </tr> <tr> <td>51%-below 55%Fe</td> <td>4022.69</td> </tr> <tr> <td>55%-below 58%Fe</td> <td>2957.79</td> </tr> <tr> <td>60%-below 62%Fe</td> <td>148.91</td> </tr> </tbody> </table>		<b>Fines closing stock in tonnes</b>		45%-below 51%Fe	6861.14	51%-below 55%Fe	4022.69	55%-below 58%Fe	2957.79	60%-below 62%Fe	148.91	Appears to be correct at that time. -----
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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<table border="1"> <tr> <td colspan="2"><b>Ex-mine Price of Iron ore Fines in Rs per tonne</b></td> </tr> <tr> <td>45%-below 51%Fe</td> <td>890.06</td> </tr> <tr> <td>51%-below 55% Fe</td> <td>1412.91</td> </tr> <tr> <td>55%-below 58%Fe</td> <td>3496.50</td> </tr> <tr> <td>60%-below 62%Fe</td> <td>4425</td> </tr> <tr> <td>58%-below 60%Fe</td> <td>3291.54</td> </tr> <tr> <td colspan="2"><b>Ex-mine Price for CLO in Rs per tonne</b></td> </tr> <tr> <td>62%-below 65% Fe (5 18 mm)</td> <td>6999.50</td> </tr> <tr> <td>62%-below 65% Fe (10 40</td> <td>6099.16</td> </tr> </table>	<b>Ex-mine Price of Iron ore Fines in Rs per tonne</b>		45%-below 51%Fe	890.06	51%-below 55% Fe	1412.91	55%-below 58%Fe	3496.50	60%-below 62%Fe	4425	58%-below 60%Fe	3291.54	<b>Ex-mine Price for CLO in Rs per tonne</b>		62%-below 65% Fe (5 18 mm)	6999.50	62%-below 65% Fe (10 40	6099.16	Appears to be correct	-----
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		mm)		
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs.131704709/-	Appears to be correct	-----
9i	Scrutiny of Annual return on mining machineries	Back hoe-3 Dumper-05 Crusher-01 Wheel Loader-1.5	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 26/02/2024, the violation of rule 11(1) of MCDR 2017 was pointed out and, said rule yet to be complied.

(b) During current inspection: The violation of Rule 11 (1), Rule 45 (7) of MCDR 2017 have been observed and the violation letter issued on 14/11/2024.

(11) The lessee was submitted DAI/drone survey data under rule 34A for FY 23-24 on 15/07/2024.

Rohita Sethi  
Assistant Controller of Mines