

MCDR INSPECTION REPORT

Name of the Mine: Dubna-Sakradihi Iron & Manganese Mine, of M/s OMC Ltd,
40ORI08010

Name of the Inspecting Officer : Shri Sanjay Kumar Mahapatra, ACOM

Name of the accompanying official: Sri Gyana Prakash Mohapatra, Mines Manager

Date of Inspection: 06.03.2024.

S. N.	Particulars	Details
1	Name of the Mine	Dubna-Sakradihi Iron & Manganese Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	1332.019 Ha Area in Forest: 1243.2700 Ha Non-Forest Area: 88.2790 Ha
3	Minecode	40ORI08010
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4269/2011
5	Name of the lessee, Address, phone, email and fax number	Odisha Mining Corporation Limited. OMC House, Post No. 34, Bhubaneswar, Khurda, Odisha, 751001 Phone No. 0674-2393431 Email. info@odishamining.in Fax. 0674-2391629
6	Village	Dubna
7	Taluka/Mandal	Barbil, Jhumpura
8	District	Keonjhar
9	Pincode	758086
10	State	Odisha
11	Post office	Dubna
12	Nearest police station	Bamebari
13	Nearest Railway station	Nayagarh
14	Date of Grant of Mining Lease	21 st February
15	Date of Execution	21 st February 2024
16	Date of opening of Mine	Mine is Non- Working. Amalgated Mines, Not yet opened. Non-operationalized since 06.11.2009 by order of Deputy Director Mines, Joda vide Letter No. 50207
17	Date of first Renewal, if applicable and its period & expiry	The lessee has executed a mining lease deed on dtd. 08.09.1971 for Dubna over an area of 1135.419
18	Date of second Renewal, if applicable and its period & expiry	hects for 20 years and on dtd.28.12.1959 for Sakradihi over an area of 564.55 hects for 30 years. However 564.55 hects lease area of Sakradihi iron lease and 367.95 hects area of Dubna lease was overlapping. In the amalgamated lease of Dubna Sakradih , Dubna managanese lease area covering an area of 1135.419
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	hects. including the overlapping lease area and the Sakradihi lease

- 20 Name of the Nominated Owner with Address, phone, email, fax number and date of appointment Mr. Balwant Singh, I.A.S,
Managing Director.
Address: OMC House, Post Box No.34, Bhubaneswar-751001,Khurda
Phone No. 0674-2393431,
Email- info@odishamining.in
Fax- 06742391629
DOA:-08.06.2021
- 21 Name of the Mine Agent with Address, phone, email, fax number and date of appointment Mr. Abanikanta Pradhan, Regional Manager.
Address: Odisha Mining Corporation Limited, Regional Office, Barbil, Keonjhar, Odisha, 758035
Phone No. 0676727525
Email- apradhan@odishamining.in
Fax- 0676727525
DOA:-02.06.2021
- 22 Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines Mr. Gyana Prakash Mohapatra, Mines Manager
Address: Dubna-Sakradihi Iron & Mn. Mines, Odisha Mining Corporation Limited, Dubna Keonjhar Odisha, 758035
Phone No. 9238441700
Email- gyana.mohapatra@odishamining.in
Fax- 06767275257
DOA- 28.09.2022
- 23 Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine Mr. Gyana Prakash Mohapatra, Mines Manager
Address: Dubna-Sakradihi Iron & Mn. Mines, Odisha Mining Corporation Limited, Dubna Keonjhar Odisha, 758035
Phone No. 9238441700
Email- gyana.mohapatra@odishamining.in
Fax- 06767275257
DOA- 28.09.2022
- 24 Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine Not appointed. Mine is Non-working since 06.11.2009.
- 25 Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57. Not appointed. Mine is Non-working since 06.11.2009.
- 26 Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. Date of Approval of Review of Mining Plan- 04.02.2020.
Period of Validity- 31.03.2025
- 27 Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific Date of Approval of Review of Mining Plan- 04.02.2020.

I/28687/2024

28	Mineral(s) granted in lease and proved for mining	Iron & Manganese Ore
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	"A" Fully Mechanized
31	Captive/Non Captive	Non-Captive

Exploration

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
1a	Backlog of previous year	385 Bore Holes	-	
1b	Exploration over lease area for Geological axis 1 or 2.	-	G1-401.685 ha. G2- 4.925	Mine is non-operationalized since
1c	Exploration Agency & Expenditure in lakh Rupees during the year	MAPL	-	06.11.2009 by order of
1d	Balance area to be explored to bring Geological axis in 1 or 2	650ha	-	Deputy Director
1e	Balance reserves as per latest approved document	Iron -25.7518MT Mn - 1.146MT	-	Mines, Joda vide Letter No. 50207
1f	General remarks of inspecting officer on geology, exploration etc.	The amalgamated lease area is 1332.019 hect. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024. Mine is non working since 06.11.2009. Thus no violation issued. G1-401.685 ha. G2- 4.925.		

Development

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
2a	Location of development w.r.t. lease area	Dep-2:- 332418E to 332790E & 2415250N to 2415780N Dep-3:- 332550E to 332837E & 2414267N to 2415107N Dep-8:- 333458E to 334000E & 2413645N to 243995N Dep-5top:- 332920E to 333225E & 2417610N to 2417886N Dep-6B:- 332746E to 332895E & 2417550N to 2417727N	Not applicable as mine was Non Working	Mine is non operationalized since 06.11.2009 by order of Deputy Director Mines, Joda vide Letter No. 50207
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Dep-2,3&8:- Bench height- 6m & width- 12m Dep-5top & 6B:- Bench height- 6m & width- 6m	Not applicable as mine was Non Working	
2c	Stripping ratio or ore to OB ratio	Dep2D:- 1:0.62, Dep3D:- 1:1.12,	Not applicable as	

I/28687/2024

2d Quantity of topsoil generation in m3

Iron Ore: 3782 cum

Not applicable as mine was

Manganese Ore: 2138 cum

Non Working

2e Quantity of overburden generation in m3

Iron Ore: 2.92 Mt

Not applicable as

Manganese Ore: 0.80 Mt

mine was Non Working

2f General remarks of inspecting officer on development of pit w.r.t. type of deposit etc

The amalgamated lease area is 1332.019 hect. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024. Mine is non working since 06.11.2009. Thus no violation issued.

EXPLOITATION

N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
3a	Number of pits proposed for production	5 nos.	Not applicable as mine was Non Working	Mine is non operationalized
3b	Quantity of ROM mineral production proposed	Dep2D:- 0.308cum, Dep3D:- 0.358cum, Dep8:- 0.344cum, Dep5top:- 0.0089cum, Dep6B:- 0.013cum	Not applicable as mine was Non Working	Mine is non operationalized
3c	Recovery of salable/usable mineral from ROM production	Dep2D:- 0.30cum, Dep3D:- 0.33cum, Dep-8:- 0.30cum, Dep5top:- 0.0066cum, Dep6B:- 0.0016cum	Not applicable as mine was Non Working	Mine is non operationalized
3d	Quantity of mineral reject generation	Dep2D:- 0.008cum, Dep3D:- 0.028cum, Dep8:- 0.044cum, Dep5top:- 0.0023cum, Dep6B:- 0.0114cum	Not applicable as mine was Non Working	Mine is non operationalized
3e	Grade of mineral reject generation and threshold value declared	45-58% Fe 10-25% Mn	Not applicable as mine was Non Working	Mine is non operationalized
3f	Quantity of sub-grade mineral generation	Dep2D:- 0.008cum, Dep3D:- 0.028cum, Dep8:- 0.044cum, Dep5top:- 0.0023cum,	Not applicable as mine was Non Working	Mine is non operationalized

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		Dep6B:-			
1/28687/2024	3g	Grade of sub-grade mineral generation	0.0114cum 45-58% Fe 10-25% Mn	Not applicable as mine was Non Working	Mine is non operationalized
	3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Not applicable as mine was Non Working	Mine is non operationalized
	3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Not applicable as mine was Non Working	Mine is non operationalized
	3j	Provision of drilling & blasting in mineral benches	80%	Nil	Mine is non operationalized
	3k	Provision of mining machineries in mineral benches	Excavator 2.5-4.5cum:- 14nos, Excavator 0.9-2.0cum:- 4nos, Loader 2.5-4.5cum:- 8nos, Dumper 35-50t:- 27, DG Set (30KV):- 3nos, Drill 115-150mm with compressor:- 5nos, Dozer 324KW:- 3nos, Motor Grader 125KW:- 2nos, Explosive van:- 1no, Service van:- 1no, Pick up van:- 2nos, Water sprinkler(28kl):- 3nos, Water tanker (12kl):- 1no, Diesel browser:- 2nos, Tyre Handler:- 1no, Portable light for face lighting:- 15nos, Cranes5t:- 1no, Crane15t:- 1no, Rock breaker:- 1no, Ambulance:- 2nos, Vehicle mounted Mist Cannon Gun:- 3nos, Staff Bus:- 2nos	1. Water tanker (12kl) 2. Ambulance: - 2nos	Mine is non operationalized
	3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Not applicable as mine was Non Working	Mine is non operationalized
	3m	Total area covered under excavation/pits	Iron Ore:- 380848sqm Manganese Ore:- 51536sqm	Not applicable as mine was Non Working	Mine is non operationalized

3n I/28687/2024	Ore to OB ratio for the pit/mine during the year	Dep2D:- 1:0.62, Dep3D:- 1:1.12, Dep8:- 1:2.50, Dep5top:- 1:28.14, Dep6B:- 1:11.52	Not applicable as mine was Non Working	Mine is non operationalized
3o	Total area put in use under different heads at the end of year	<ol style="list-style-type: none"> 1. Area under mining pit: 242.5577ha 2. Mineral rejectstack yard: 0.00ha 3. Waste Dump: 14.8060ha 4. Temporary mineral stock: 4.2744ha 5. Infrastructure: 3.3891ha 6. Road & Railways: 9.2687ha 7. Mineral processing: 0.00ha 8. Safety Zone: 33.7227ha 9. Others- Undisturbed area for future use: 1024.0024 	Not applicable as mine was Non Working	Mine is non operationalized
3p	Production of ROM mineral during last six-year period, as applicable 2016-17 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23	<u>Iron:-</u> 2017-18:290000 Mt 2018-19 :165000 Mt 2019-20: 301000 Mt. 2020-21: 290000 Mt. 2021-22:- 1650000 Mt, 2022-23:- 3000000 Mt. <u>Manganese:-</u> 2017-18: 20000 Mt 2018-19 :100000 Mt 2019-20: 100000 Mt. 2020-21: 20000 Mt. 2021-22:- 50000 Mt, 2022-23:- 50000 Mt.	Not applicable as mine was Non Working	Mine is non operationalized
3q	General remarks of inspecting	The amalgamated lease area is 1332.019 hect. Dubna-		

1/28687/2024

Solid Waste management-Dumping

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Topsoil:- nil OB:- Iron Ore:3 nos & Manganese Ore:1no Mineral reject:- nil	Nil	Mine is non operationalized
4b	Location of topsoil, OB & mineral reject dumps	OB:- Dep2D &3D- 332836E to 333098E & 2414575N to 2414956N, Dep8- 333500E to 333400E &2414000N to 2414500N, Dep5top & 6B- 332785E to 333109E &2417160N to 2417422N	Nil	Mine is non operationalized
4c	Number of dumps within lease area and outside lease area	Within lease area- 3nos, Outside lease area- Nil	Nil	Mine is non operationalized
4d	Location of dumps w.r.t. ultimate pit limit	OB:- Dep2D &3D- 332836E to 333098E & 2414575N to 2414956N, Dep8- 333500E to 333400E &2414000N to 2414500N, Dep5top & 6B- 332785E to 333109E &2417160N to 2417422N	Nil	Mine is non operationalized
4e	Number of active & alive dumps	3 nos	Nil	Mine is non operationalized
4f	Number of dead dumps	Nil	Nil	Mine is non operationalized
4g	Number of dumps stabilised	Nil	Nil	Mine is non operationalized
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Nil	Mine is non operationalized
4i	Length of Retaining wall or garland drain all along dump	Retaining wall :- 410x1.2x2.0m Garland drain:- Nil	Nil	Mine is non operationalized
4j	Number of settling ponds	Nil	Nil	Mine is non operationalized
4k	Specific comments of inspecting officer on waste dump	The amalgamated lease area is 1332.019 hecets. Dubna-Sakradihi Iron & Manganese was executed on 21st		

Solid Waste management-Backfilling

I/28687/2024

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Mine is non operationalized
5b	Area under backfilling of mined out area	Nil	Nil	Mine is non operationalized
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	Mine is non operationalized
5d	Total area fully reclaimed & rehabilitated	Reclaimed: 4.2505ha	Nil	Mine is non operationalized
5e	General remarks of inspecting officer on backfilling, reclamation etc	The amalgamated lease area is 1332.019 hect. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024. Mine is non working since 06.11.2009.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Yes	--	
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) 0.45ha iii) 1125nos iv) 8375nos	i) Nil ii) 3.859ha iii) 5174nos iv) 63012nos	
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	Nil	Nil	Mine is non operationalized
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	Mine is non operationalized
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Core zone: 1. Loading point, 2. Dumping point 3. Haulage road Buffer zone (Villages) : 1. Jampani 2. Kalimati 3. rugurhisahi	Nil	Mine is non operationalized

4. Jarpada

5. kutupali

6. basantpur

7. Dalita

8. Ranga Paharh

- 6f General remarks of inspecting officer on PMCP compliance & progressive closure operations The amalgamated lease area is 1332.019 hecets. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024. Mine is non working since 06.11.2009.

Mineral Conservation

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Nil	Mine is non operationalized
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Nil	Mine is non operationalized
7c	Different grade of mineral sorted out at mines	Yes	Nil	Mine is non operationalized
7d	Any beneficiation process at mines	Yes	Nil	Mine is non operationalized
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The amalgamated lease area is 1332.019 hecets. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024. Mine is non working since 06.11.2009.		

Environment

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	Topsoil use for plantation	Nil	Mine is non operationalized
8b	Concurrent use or storage of topsoil	Yes	Nil	Mine is non operationalized
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Nil	Mine is non operationalized
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Nil	Mine is non operationalized
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Nil	Mine is non operationalized
8f	Baseline information on existence of plantation & additional Plantation done	Area for plantation: 0.45ha & nos. of saplings 1125nos.	Actual area for plantation: 3.859ha and nos. of sapling planted 5174nos.	
8h	Water sprinkling on roads to control airborne dust	4 nos. (Water sprinkler 28kl - 3nos, Water tanker 12kl)	1 no (Water tanker 12kl)	Mine is non operationalized
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The amalgamated lease area is 1332.019 hecets. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024. Mine is non-working since 06.11.2009.		

Compliance of Rule 45

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S.N.	Item	COMMENTS	
1/28687/2024	9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto (i) January-2024 submitted on 05.02.2024 (ii) December-2023 submitted on 08.01.2024 (iii) November-2023 submitted on 07.12.2023 A.R. Submitted upto FY2022-23 on dtd. 28.06.2023.
	9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Gyana Prakash As per Annual Return. Mohapatra Manger & Mining Engineer Mining Engg was present during inspection.
	9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1.Already exploited and abandoned by opencast (O-C) mining - 242.558 2.Used for waste disposal - 14.806 Occupied by plant, buildings, residential, welfare buildings and roads - 12.658 3.Used for any other purpose (specify) Statutory Barrier & Mineral Storage - 37.995 4.Work done under progressive mine closure plan during the year - 3.859
	9d	Scrutiny of Annual return on afforestation	3.859ha 5174nos As per Annual Return Cum.63012nos
	9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0.00 As per Annual Return
	9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM (Iron) – 16500.00 As per Annual Return Lump (65% and above Fe)-4814.630 Fines (60% to below 62% Fe)-54817.850 ROM (Mn.) – 0.00 25% to below 35% Mn. – 2005.870 35% to below 46% Mn. – 43.470 46% and above Mn. – 448.730 Dioxide Ore – 65.770
	9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	No sale Ex. Mine Price-0.00 Production cost-0.00
	9i	Scrutiny of Annual return on fixed assets	Rs. 8547820 As per Annual Return
	9k	Scrutiny of Annual return on mining machineries	Nil

Remark: The lessee has executed a mining lease deed on dtd. 08.09.1971 for Dubna over an area of 1135.419 hecets for 20 years and on dtd.28.12.1959 for Sakradihi over an area of 564.55 hecets for 30 years. However 564.55 hecets lease area of Sakradihi iron lease and 367.95 hecets area of Dubna lease was overlapping. In the amalgamated lease of Dubna Sakradih , Dubna managanese lease area covering an area of 1135.419 hecets including the overlapping lease area and the Sakradihi lease area reduced to 196.60 hecets excluding the overlapping area .Now the total amalgamated lease area is 1332.019 hecets. Dubna-Sakradihi Iron & Manganese was executed on 21st February 2024.Tthe amalgamated lease will expire on 27.12.2029 considering the lease tenure of Sakradihi lease. Mine is non-working since 06.11.2009.

I/28687/2024

(SANJAY KUMAR MAHAPATRA)
Assistant Controller of Mines