

INDIAN BUREAU OF MINES
MCDR INSPECTION REPORT
Bhubaneswar Region

General

SL. No.	Particulars	Details
1.	Name of the Mine	Dubna-Sakradihi Iron & Manganese Mine
2.	Date of Inspection	18.10.2024
3.	Name of Inspection officer:	Shri Rohita Sethi, Assistant Controller of Mines
4.	Name of official accompanying inspection	Mines Manager & Mining Engineer -Sh. Gyana Prakash Mohapatra
5.	Last date of Inspection & Officer	06.03.2023,Sh. Sanjay Kumara Mahapatra ,ACOM
6.	Total Lease Area (Ha) with breakup of non-forest and forest land	Total Lease area: 1332.019 Ha (as per RoR) 1331.549 Ha (as per DGPS Survey) Forest area: 1243.2700 Ha Non-Forest Area: 88.749 Ha
7.	Minecode	40ORI08010
8.	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4269/2011
9.	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
10.	Village	Dubna
11.	Taluka/Mandal	Barbil, Jhumpura
12.	District	Keonjhar
13.	Pincode	758086
14.	State	Odisha
15.	Post office.	Dubna
16.	Nearest police station	Bamebari
17.	Nearest Railway station	Nayagarh
18.	Date of Grant of Mining Lease	28/12/1959 Sekradihi Iron Mines 08/09/1971 Dubna Manganese Mines
19.	Date of Execution	21.02.2024
20.	Date of opening of Mine	Opening Notice to be sent within 15 days of opening.
21.	Date of expiry	27.12.2029

22.	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:-08.01.2021																								
23.	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																								
24.	Name of the Mines Manager with Address, mobile no, 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																								
25.	Name of the Mining Engineer , Qualification and total experience with Address, mobile no, email, fax/phone 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																								
26.	Name of the Geologist , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Not appointed. Mine is Non-working since 06.11.2009.																								
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.	<table border="1"> <thead> <tr> <th colspan="4">Date of Approval of Review of Mining Plan-</th> </tr> <tr> <th>Sl. No</th> <th>Details MP</th> <th>Rule Ref.</th> <th>Validity Period</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Review of MP</td> <td>17(2) of MCR 2016</td> <td>Fy2020-21 to 24-25</td> </tr> <tr> <td>2</td> <td>Modified MP</td> <td>17(3) of MCR, 2016</td> <td>Fy2015-16 to 2019-20</td> </tr> <tr> <td>3</td> <td>Modified MP</td> <td>10, MCDR, 1988</td> <td>Fy 28.12.2009 to 31.03.2015</td> </tr> <tr> <td>4</td> <td>Mining Plan</td> <td>22A of MCR, 1960</td> <td>Fy 28.12.2009</td> </tr> </tbody> </table>	Date of Approval of Review of Mining Plan-				Sl. No	Details MP	Rule Ref.	Validity Period	1	Review of MP	17(2) of MCR 2016	Fy2020-21 to 24-25	2	Modified MP	17(3) of MCR, 2016	Fy2015-16 to 2019-20	3	Modified MP	10, MCDR, 1988	Fy 28.12.2009 to 31.03.2015	4	Mining Plan	22A of MCR, 1960	Fy 28.12.2009
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		5	Mining Plan	22A of MCR, 1960
				Fy 28.12.2005 to 27.12.2009
28.	Mineral (s) granted in lease and proved for mining.	Iron & Manganese Ore		
29.	Method of Mining (Opencast, Underground)	Opencast		
30.	Category (Fully Mechanised, Others or Manual)	“A” Fully Mechanized		
31.	Captive/Non-Captive	Non-Captive		
	Present EC Capacity	7.01 MTPA		

Exploration:---

SL.No	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda. vide Order No. 50207/Mines dated 06/11/2009
1b	Exploration over lease area for Geological axis 1 or 2.	No Exploration proposal	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	MAPL	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	650ha	Nil	
1e	Balance reserves as on 01.04.2024. (Proved + Probable)	Reserve as on 30.10.2019 Iron - 25.7524MT Mn – 1.146 MT	Iron -25.7524MT Mn – 1.146 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda. vide Order No. 50207/Mines dated 06/11/2009		

Development:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Deposit- 2:332522E to 332820E &	NIL	Mine is non-operationalized since 06/11/2009,

		2415224N to 2415882N Deposit-3: 332590E to 332892E & 2414530N to 2415125N Deposit-8: 333475E to 333955E & 2413680N to 2413955N Deposit-5 Top: 332840E to 333110E & 2417600N to 2417825N Deposit-6B: 332464E to 332720E & 2416940N to 2417145N &		as per the order of Deputy Director Mines, Joda. vide Order No. 50207/ Mines dated 06/11/2009
2b	Separate benches in topsoil, overburden and mineral	Dep-2,3&8:- Bench height- 6m & width- 12m Dep-5top & 6B:- Bench height- 6m & width- 6m	NIL	Mine is non- operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda. vide Order No. 50207/ Mines dated 06/11/2009
2c	Stripping ratio or Ore to OB ratio	Dep2D:- 1:1.27, Dep3D:- 1:1.47, Dep8:- 1:1.12, Dep5top:- 1:14.51, Dep6B:- 1:15.12	NIL	
2d	Quantity of topsoil generation in m3	Iron Ore: Nil Manganese Ore: Nil	NIL	
2e	Quantity of overburden generation in m3	Iron Ore: 1.36 m3 Manganese Ore: 0.3221 m3	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009		

	deposit etc.	
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Exploitation:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	5 Nos.	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
3b	Quantity of ROM mineral production proposed	Fe – 2.93 Mt Mn. – 0.045 Mt.	Nil	
3c	Recovery of salable/usable mineral from ROM production	Fe – 2.4905 Mt Mn. - 0.01575 Mt	Nil	
3d	Quantity of mineral reject generation	Fe. – 0.4395Mt Mn. – 0.02925 Mt	Nil	
3e	Grade of mineral reject generation and threshold value declared	45-55% Fe 10-25% Mn	Nil	
3f	Quantity of sub-grade mineral generation	Fe. – 0.4395Mt Mn. – 0.02925 Mt	Nil	
3g	Grade of sub-grade mineral generation	45-55% Fe 10-25% Mn	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Iron Ore: Mechanized Manganese: Manual	Nil	
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	80%	Nil	
3k	Provision of mining machineries in	Excavator 2.5-4.5cum:- 14nos, Excavator 0.9-	Nil	

	mineral benches	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		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
3m	Total area covered under excavation/pits	Iron:- 47.2188 ha Mn.:- 5.1175 ha	Nil	
3n	Ore to OB ratio for the pit/mine during the year	Dep2D:- 1:1.27, Dep3D:- 1:1.47, Dep8:- 1:1.12,	Nil	

		Dep5top:- 1:14.51, Dep6B:- 1:15.12		
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. Greenbelt: 0.00ha <p>Others- Undisturbed area for future use: 1024.0024</p>	Nil	
3p	Production of ROM mineral during last five-years period , as applicable	<p><u>Iron:-</u> 2019-20: 301000 Mt. 2020-21: 290000 Mt. 2021-22: 1650000 Mt, 2022-23:- 3000000 Mt. 2023-24:- 3000000 Mt.</p> <p><u>Manganese:-</u> 2019-20: 100000 Mt. 2020-21: 20000 Mt. 2021-22:- 50000 Mt, 2022-23:- 50000 Mt. 2023-24:- 50000 Mt.</p>	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009

3q	General remarks of inspecting Officer on method of mining etc	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009		

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)	Topsoil:- nil OB:- Iron Ore:3 nos & Manganese Ore:1no Mineral reject:- nil	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
4b	Location of topsoil, OB & mineral reject dumps	OB:- Dep2D &3D- 364979E to 364915E & 2412831N to 2412748N, Dep3D (WD-4) 376289E to 376297E & 2413085N to 2413085N Dep8- 364524E to 364453E &2408979N to 2408811N Dep5T, 6A & 6B- 333059E to 332806E &2417186N to 2417390N	Nil	
4c	Number of dumps within lease area and outside lease	Within lease area- 9 nos, Outside lease area- Nil	Nil	

	area			
4d	Location of dumps w.r.t. ultimate pit limit	OB:- Dep2D &3D- 364979E to 364915E & 2412831N to 2412748N, Dep3D (WD-4) 376289E to 376297E & 2413085N to 2413085N Dep8- 364524E to 364453E &2408979N to 2408811N Dep5T, 6A & 6B- 333059E to 332806E &2417186N to 2417390N	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
4e	Number of active & alive dumps	4 Nos.	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Nil	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall :- 400x1.2x2.0m Garland drain:- Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting Officer on waste dump management	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009		

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Solid Waste Management-Backfilling:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Mine is non-operationalized since 06.11/2009, by Deputy Director Mines, Joda. Vide Order No. 50207/Mines dated 06.11.2009
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Reclamation:- 2.6511 ha	Nil	
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009		

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)	Yes	Ref. Ltr. No. 332/OMC/DBN-SKD/2024 dtd.01.07.2024.	Mine is non-operationalized since 06.11/2009, by Deputy Director Mines, Joda. Vide Order No. 50207/Mines dated 06.11.2009
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	i) Nil ii) 1.50ha iii) 3000 nos iv) 11375nos v) Nil vi) Nil	i) Nil ii) Nil iii) Nil iv) 63012nos v) Nil vi) Nil	

	vi) Cost incurred on watch & care during the year			
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 since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
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 since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
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 4. Jarpada 5. Kutupali 6. Basantpur 7. Dalita 8. Ranga Paharh	Nil	
6f	General remarks of inspecting Officer on PMCP compliance & progressive	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009		

	closure operation etc	
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Mineral Conservation:---

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Nil	Mine is non-operationalized since 06/11/2009, by order of Deputy Director Mines, Joda. Vide Order No. 50207/Mines dated 06.11.2009
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mn.:- Manual Iron:- Mechanized	Nil	
7c	Different grade of mineral sorted out at mines	Yes	Nil	
7d	Any beneficiation process at mines	Yes	Nil	

Environment:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Topsoil if any encountered during lateral development of Mine pit shall be used for plantation purpose over the reclaimed part of the Pit.	Nil	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
8b	Concurrent use or storage of topsoil	Yes	Nil	
8c	Separate dumps for	Yes	Nil	

	overburden, waste rock, rejects and fines			
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Nil	
8f	Baseline information on existence of plantation & additional plantation done	Area for plantation: 1.50ha & nos. of saplings 3000 nos.	Nil	
8g	Survival rate	Nil	Nil	
8h	Water sprinkling on roads to control airborne dust	4 nos. (Water sprinkler 28kl - 3nos, Water tanker 12kl)	Nil	

Compliance of Rule 45

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto September-2024 A.R. Submitted upto FY2023-24 on dtd. 29.06.2024.		Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/ Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Gyana Prakash Mohapatra Manger & Mining Engineer	Appears to be correct.	
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	Mine is non-operationalized since 06.11/2009, by order of Deputy Director Mines, Joda. Vide Order No. 50207/Mines	

		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	dated 06.11.2009	
9d	Scrutiny of Annual return on afforestation	Nil Nil Cum.63012nos	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0.00	Appears to be correct	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM (Iron) – 16500.00 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	As per annual return	Mine is non-operationalized since 06/11/2009, as per the order of Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	No sale Ex. Mine Price- 0.00 Production cost- 0.00	As per annual return	Mine is non-operationalized since 06/11/2009, as per the order of

9h	Scrutiny of Annual return on fixed assets	Rs. 348736939	As per annual return	Deputy Director Mines, Joda, vide Order No. 50207/Mines dated 06/11/2009
9i	Scrutiny of Annual return on mining machineries	Nil	As per annual return	

Rohita Sethi
Assistant Controller of Mines