

MCDR INSPECTION REPORT**General**

S. N.	Particulars	Details	
1	Name of the Mine	Daitari Iron Ore Mines	
i	Date of Inspection	30.10.2024	
ii	Name of Inspection officer:	Shri Rajesh Kumar Das, Deputy controller of Mines	
iii	Name of official accompanying inspection	Shri B B Nayak, Agent Mines & Shri Saroj Kumar Prusty, Qualified Person	
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area (ha)	1018.3085 Ha
		Forest Land (ha)	846.3995 Ha.
		PrivateLand (ha)	0.2720 Ha.
		Revenue land (ha)	171.6370 Ha.
		Total Lease Area (ha)	1018.3085 Ha
		Forest Land (ha)	846.3995 Ha.
3	Minecode	30ORI08015	
4	IBM Registration Number under rule 45 of MCDR, 1988	4269/IBM/2011	
5	Name of the lessee, Address, phone, email and fax number	M/s. Odisha Mining Corporation Ltd At-Daitari,Po-Talapada, Dist-Keonjhar,758026 06726-248722, managerdaitari@yahoo.in	
6	Village	Daitari	
7	Taluka/Mandal	Harichandanpur	
8	District	Keonjhar	
9	Pincode	758026	
10	State	Odisha	
11	Post office	Talapada	
12	Nearest police station	Daitari	
13	Nearest Railway station	Daitari Railway Station	
14	Date of Grant of Mining Lease	27.01.1966	
15	Date of Execution	27.01.1966	
16	Date of opening of Mine	27.01.1966	
17	Date of first Renewal, if applicable and its period & expiry	27.01.2016 Expiry- 26.01.2036 Period-20 years.	
18	Date of second Renewal, if applicable and its period & expiry	-	
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	No	
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. Sudhansu Mohan Samal, MD, IAS, OMC House, Bhubaneswar	
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri.Bibhuti Bhushan Nayak ,RegionalManager,Daitari,Po- Talapada,Keonjhar, bbnayak@odishamining.in 9439003443	
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri. Bikash Chandra Parida, Sr.Manager (Mining) , BE Mining, OSME, Keonjhar 16Years Experiance	

		Daitari, Po-Talapada, Keonjhar, D.O.A-11/10/2021 Email-minesmanagerdaitari@gmail.com Phone-9439498220
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri. Bikash Chandra Parida, Sr.Manager (Mining) , BE Mining, OSME, Keonjhar 17 Years Experience Daitari, Po-Talapada, Keonjhar, D.O.A-09/07/2024 Email-minesmanagerdaitari@gmail.com Phone-9439498220
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Geologist-Sri BhajahariKhuntia, Msc. Geology 17yrs experience Daitari,Po-Talapada,Keonjhar,-758026 Phone- 9438330021 Email- bhkhuntia@odishamining.in Date of appointment-07.08.2023
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	NA
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Approval of Modification of Review of Mining Plan No.BBS/JJP/IRON/2197/MRMP/2022-23. Date: 28/11/2022 01/04/2020 to 31/03/2025 This approval for mining operation and mining related activities is restricted to 95.60 ha already DRP cleared forest area within the mining lease area from this date. The mining lease area is as shown on the statutory plans by the Lessee/QP/Applicant and Indian Bureau of Mines has not undertaken verification of mining lease boundary on the ground.
28	Mineral(s) granted in lease and proved for mining	Iron
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Mechanised
31	Captive/Non Captive	Non - 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 for2023-24	Actual work during2023-24	Remark
1a	Backlog of previous year		0	

1b	Exploration over lease area for Geological axis 1 or 2.	118 NOS	Nil	Backlog for the FY 2022-23 and 2023-24 is 94 and 118 respectively. Due to want of F.C , these PBH are not done.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	854.688 Ha	0	
1e	Balance reserves as per latest approved document	177.776 MT	177.776 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Daitari Iron Ore Deposit is an isolated deposit forming a conspicuous ridge along the district boundary between Keonjhar and Jajpur towards the North of Sukinda Chromite belt. The southern part of Daitari Iron Ore Mine between -250N to -450N hosts the Blue Dust/powdery ore. The minimum thickness is 3.80 mtr encountered in bore hole no. DTR/19 and maximum thickness is 18.40 mtrs encountered in bore hole no.DTR/125. e. Laterite/ Lateritic Ore Laterite/Lateritic Ore is predominantly hosted by Sindurimundi area between -2000E to -1200E. The minimum thickness is 0.5 mtr encountered in bore hole no. BH/74 and maximum thickness is 16.50 mtrs encountered in bore hole no.BH/17. As mentioned more than 90% of area steel not explored due to want of FC.		

Development

S.N .	Item	Proposals for, 2023-24	Actual work during2023-24	Remark
2a	Location of development w.r.t. lease area	N 2334585.540 E-375737.27 N 2334585.54 E 376414.56	Broadly within lease area	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	200	0	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	20000	Nil	Due to restriction in lateral expansion of quarry on account of less production, nil OB was generated.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The development was not as per proposal and proposal of 20000 m3 OB generations given in 2023-24 but nil generation.		

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during2023-24	Remark
3a	Number of pits proposed for	1	1	

	production			
3b	Quantity of ROM mineral production proposed	60,00,000 MT	50,00,000.00 MT	Delay in obtaining amendment in EC for 6MTPA.
3c	Recovery of salable/usable mineral from ROM production	56,81,000.000	48,29,818.000	
3d	Quantity of mineral reject generation	3,19,000	1,70,182.000	
3e	Grade of mineral reject generation and threshold value declared	45% of Fe to 55 % of Fe.	53.30% of Fe	
3f	Quantity of sub-grade mineral generation	0	0	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
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	Burden, Spacing 3x3.5 mtr depth 10mtr	Burden, Spacing 3x3.5 mtr depth 10mtr	
3k	Provision of mining machineries in mineral benches	Excavator-4.5 cum Dumper-35 tonne	Excavator-4.5 cum Dumper-35 tonne	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m	10m	Yes, Suitable
3m	Total area covered under excavation/pits	67.13 Ha	40.90 H	
3n	Ore to OB ratio for the pit/mine during the year	200	0	
3o	Total area put in use under different heads at the end of year	Mining :46.24 Ha Mineral storage: 0.03 Ha Infrastructure, Plant & Machinery:2.22Ha Mineral Separation plant: 10.66 Ha Roads:5.50Ha	Mining :40.90Ha Mineral storage: 0.00 Ha Infrastructure, Plant & Machinery:2.22 Ha. Mineral Separation plant: 0.78 Ha Roads:5.50Ha	

3p	Production of ROM mineral during last six-year period, as applicable 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23 2023-24	2017-18 : 4000000MT 2018-19 : 4520000MT 2019-20: 6000000MT 2020-21: 6000000MT 2021-22: 6000000 MT 2022-23: 6000000MT 2023-24: 6000000 MT	2017-18 :3000000 MT 2018-19 :2986714 MT 2019-20:28,06,652 MT 2020-21:29,99,998 MT 2021-22:42,50,000MT 2022-23:37,50,000 MT 2023-24:50,00,000 MT	
3q	General remarks of inspecting officer on method of mining	The method of mining is opencast, mechanised with shovel-tipper combination using deep hole drilling blasting and broadly working as per proposals.		

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)	NA	NA	
4b	Location of topsoil, OB & mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit	NA	NA	
4e	Number of active & alive dumps	Nil	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	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	No major dump observed within lease area.		

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	NA	NA	

5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2023-24	Actual work during2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Annual Report has been submitted before 30 th June 2024	Annual Report has been submitted on 28.06.2024	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	NA		NA
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	NA		
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	225 nos. 0.09 Ha. Avenue Plantation	260 nos. 0.15 Ha Avenue Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Environmental Parameters (core zone & buffer zone) to be within permissible limit.	All Environmental parameters (core zone & buffer zone) are within permissible limit. Regular environmental monitoring is being done	
6f	General remarks of inspecting officer on PMCP	Broadly as per proposal.		

	compliance & progressive closure operations	
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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	6.0 Million Tonne	5 Million Tonne	Delay in obtaining amendment in EC for 6MTPA.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Crushing & screening of ROM to reduce size
7c	Different grade of mineral sorted out at mines	CLO(62%-65%Fe) Fines(62%-65%Fe, 60%-62%Fe)	CLO(62%-65%Fe) Fines(62%-65%Fe, 60%-62%Fe)	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The blending of low grade with high grade done to get the desired grade.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional Plantation done	15831 nos 225 nos.	260 nos.	
8g	Survival rate	-	90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is done by fixed water sprinkling system and by Water tanker	Water sprinkling is done by fixed water sprinkling system and by Water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and	During mine visit no adverse impact on aesthetic beauty within lease observed.		

	around mines area	
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Compliance of Rule 45

S.N .	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted uptoSeptember 2024 A.R. Submitted uptoFY2023-24		
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	Mines Manager-01 Mining Engineer-01 Geologist-01.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	40.90ha for O/C working & 18.38 ha. For Infrastructure, roads,etc.		
9d	Scrutiny of Annual return on afforestation	Nil		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	170182 Tons		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes given	ROM:5000000 Tons	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes given	Ex-mine price-Rs 4974.87/-(FE% 60-62,Rs 5047/--(FE %62-65),CLO-Rs6102.20/-(FE%62-65),Cost of production-Rs3522.44/-	
9i	Scrutiny of Annual return on fixed assets	Yes given	Rs 817333074/	
9k	Scrutiny of Annual return on mining machineries	Yes given	Backhoe(6 nos) of capacity 1.8m3-4.4 cum,Tipper(29 nos)-19.50 Cum,Dozer,Grader,D rill m/c of 150 & 165 mm dia,,water taker,etc.	

10. Drone Survey Information and data thereof.

Drone survey was done from 26/04/2024 to 29/04/2024.The drone survey deliverables duly uploaded. **During present inspection the violations under Rule 11(1) of MCDR, 2017 found violated.**

Rajesh Kumar Das
Deputy Controller of Mines
IBM, Bhubaneswar