

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR INSPECTION REPORT
BHUBANESWAR REGIONAL OFFICE**

General:

SL. No.	Particulars	Details
1	Name of the Mine	Sulaipat Iron Ore Mine
2	Date of inspection	15/12/2023
3	Name of inspecting officer	Prashant S Hegde, RMG
4	Name accompanying mine officials	S/Shri R. C. Nayak, Agent, Kshiti Ranjan Ray, QP, A.C. Majhi, representative and other mine officials
5	Last date of Inspection & Officer	06/07/2021 Shri Dayanand Upadhyay, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	618 Ha. (461.04 Ha Forest + 156.96 Ha Non-forest)
7	Minecode	30ORI10008
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/1273/2011
9	Name of the lessee, Address, phone, email and fax number	Shri Birat Chandra Dagara, Mine Owner Ward No.15, At & Po-Rairangpur, Dist- Mayurbhanj Odisha-757043
10	Village	Rairangpur
11	Taluka/Mandal	Rairangpur
12	District	Mayurbhanj
13	Pincode	757043
14	State	Odisha
15	Post office	Rairangpur
16	Nearest police station	Rairangpur
17	Nearest Railway station	Rairangpur
18	Date of Grant of Mining Lease	25.10.1975
19	Date of Execution	25.10.1975
20	Date of opening of Mine	25.11.1975
21	Date of expiry	24.10.2025
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Birat Chandra Dagara, Mine Owner Ward No.15, At & Po-Rairangpur, Dist- Mayurbhanj Odisha-757043 Ph No: 06794-222628 (9437022519) E-Mail: bcdagaramines@gmail.com
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri R.C. Nayak, At-Basudevpur, Near Satsang Vihar, PO/PS- Basudevpur Dist- Bhadrak, Odisha Phone-9178442125 Date of appointment-20.04.2021
24	Name of the Mines Manager with Address, mobile no, email, fax number and date of appointment in mine	Shiri P.K. Das, At- Saladiha, PO- Khuntapal PS- Rasgobindpur, Dist- Mayurbhanj, Odisha Pin-757020

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		Phone-8895925826 Date of appointment-20.04.2021
25	Name of the Mining Engineer , Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Shri Arun Gupta, B. Tech, Mining Experience-8 Years Ward No.15, At & Po-Rairangpur, Dist- Mayurbhanj Odisha-757043
26	Name of the Geologist , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Shri R.P. Singh, M. Sc Geology Experience-16 Years Ward No.15, At & Po-Rairangpur, Dist- Mayurbhanj Odisha-757043 Phone-9438681608 Date of appointment-20.04.2021
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.	Approved Modified Review of Mining Plan No. RMP/A/15-ORI/BHU/2021-22 dated 05/08/2021 for the Period from 2021-22 to 2022-23. Now, the lessees had submitted draft RMP on 23/11/2023 and which was under process.
28	Mineral (s) granted in lease and proved for mining	Iron ore
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Non-Captive
32	Present EC Capacity	6.00 Lakhs Tonnes per annum

OBSERVATIONS/COMMENTS OF INSPECTING OFFICER:**1)Exploration:---**

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
1a	Backlog of previous year	2021-22: 95 nos of BHs 2022-23: 113 nos of BHs	NIL	Non-Working Mine. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1) & (2) read with 11(1) of MCDR, 2017.
1b	Exploration over lease area for Geological axis 1 or 2.	Exploration proposed un-explored area of 577.44 Ha at G-1/G-2	NIL	G-1: 40.56 Ha, so far.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NIL	_____

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1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration proposed un-explored area of 577.44 Ha at G-1/G-2	Balance area to be explored: 577.44 Ha	Non-Working Mine
1e	Balance reserves as on 01.04.2023	NA	Iron Ore (+45 % Fe) reserves: 111+122: 10,770,765 tonnes	Based on approved Modified MP dated 5/8/2021.
1f:	General remarks of inspecting Officer on Geology, exploration etc.	The lease area is a part of the “Badampahar-Gorumahisani Iron Ore Belt” in Mayurbhanj District of Odisha lying to the north of the North Odisha Craton. The most important and conspicuously developed rock units are Quartzite, BHQ/BMQ and Singhbhum granite. Exploration proposed at un-explored area of 577.44 Ha at G-1/G-2 has not been carried out as non-working. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read with 11(1) of MCDR, 2017.		

2)Development:--

SL. No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	1)In-situ Quarry(3,5B,6 &4) 2)In-situ Quarry-Ukam EFG 3)Float Quarry-Jhimida Top 4)Float Quarry –Gonakocha & Thakuranisal 5)Float Quarry-Lohakocha.	NIL	Non-Working Mine.
2b	Separate benches in topsoil, overburden and mineral	Separate benches in overburden and minerals ; No top-soil generation;	NIL	Non-Working Mine.
2c	Stripping ratio or ore to OB ratio	1: 4.68	NIL ; Non-Working Mine.	Ratio in tonnes; BD for wastes :2.5;
2d	Quantity of topsoil generation in m3	No proposals	Nil	—
2e	Quantity of overburden generation in m3	5,592,017	NIL	Non-Working Mine.
2f	General remarks of	Developments of pits were not carried out as non-working. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read		

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	inspecting Officer on development of pit w.r.t. type of deposit etc	with 11(1) of MCDR, 2017. Now, the lessees had submitted draft RMP on 23/11/2023 and which was under process.
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3)Exploitation:--

SL.No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	Five pits: 1)In-situ Quarry(3,5B,6 &4) 2)In-situ Quarry-Ukam EFG 3)Float Quarry-Jhimida Top 4)Float Quarry – Gonakocha & Thakuranisal 5)Float Quarry-Lohakocha.	NIL	Non-Working Mine.
3b	Quantity of ROM mineral production proposed	2,982,856 Tonnes	NIL	Non-Working Mine.
3c	Recovery of salable/usable mineral from ROM production	84% (2,510,186 Tonnes)	NIL	Non-Working Mine.
3d	Quantity of mineral reject generation	472,670 Tonnes	NIL	Non-Working Mine.
3e	Grade of mineral reject generation and threshold value declared	MR: 45 to 55 % Fe	NIL	Threshold value of Iron Ore : +45 % Fe
3f	Quantity of sub-grade	Same as para 3d		Non-Working Mine.

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	mineral generation			
3g	Grade of sub-grade mineral generation	Same as para 3e		
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	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	Drilling and blasting using the wagon drill (165/115mm dia)	NIL	Non-Working Mine.
3k	Provision of mining machineries in mineral benches	Yes; Mining by Excavators & Dumpers Combination.	NIL	Non-Working Mine.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<u>In-situ ore Pits</u> : 9 to 10m bench height with 12 to 15m width; <u>Float ore pits</u> : 6m bench height with 10m width;	No operations after approval of modified RMP document.	Non-Working Mine.
3m	Total area covered under excavation/ pits	80.10 Ha	59.60 Ha	_____
3n	Ore to OB ratio for the pit/mine during the year	1: 4.68	NIL ; Non-Working Mine.	Ratio in tonnes; BD for wastes :2.5;

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3o	Total area put in use under different heads at the end of year	Particulars	Total Area(Ha) at the end of FY 2022-23	Particulars	Total Area(Ha) at the end of FY 2022-23	Non-Working Mine.
		Area under Mining	80.10	Area under Mining	59.6	
		Overburden/ Waste dumping	59	Overburden/ Waste dumping	10.5	
		Mineral Storage	36.05	Mineral Storage	17.5	
		Area Occupied Infrastructure, plants, buildings , roads etc	59.448	Area Occupied Infrastructure, plants, buildings , roads etc	47.448	
3p	Production of ROM mineral during last five-years period, as applicable	2018-19: 956,120 2019-20:1,114,450 2020-21:1,163,845 2021-22: 1,438,233 2022-23: 2,982,856		2018-19:Nil 2019-20: Nil 2020-21: 48,210 2021-22: 2,39,235 2022-23:Nil		Unit: In tonnes; No production from Spetember-2021 onwards.
3q	General remarks of inspecting Officer on method of mining etc		No production from Spetember-2021 onwards. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read with 11(1) of MCDR, 2017. Now, the lessees had submitted draft RMP on 23/11/2023 and which was under process.			

4)Solid Waste Management-Dumping:--

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No Topsoil ; OB waste dumping separately	NIL	Non-Working Mine.

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4b	Location of topsoil, OB & mineral reject dumps	OB: Proposed at 4 dumps E419214-420761E & N-2448872-2449675N Mineral Reject: 420575E to 420800 E 2449408 N to 2449600 N	NIL	Non-Working Mine.
4c	Number of dumps within lease area and outside lease area	8 nos dumps within the lease area.	8 nos dumps within the lease area.	_____
4d	Location of dumps w.r.t. ultimate pit limit	Outside of UPL	As per the proposals.	_____
4e	Number of active & alive dumps	7 nos active dumps.	7 nos active dumps.	_____
4f	Number of dead dumps	One	One	_____
4g	Number of dumps stabilised	NIL	NIL	_____
4h	Whether Retaining wall or garland drain all along dumps are there	Yes; 1450m Retaining wall / garland drain all along dump exist.	As per the proposals.	_____
4i	Length of Retaining wall or garland drain all along dump	700 m retaining wall & 800m garland drain around dumps proposed of FY 2022-23.	NIL	Non-Working Mine.
4j	Number of settling ponds	7 nos	NIL	Non-Working Mine.
4k	Specific	No working from Spetember-2021 onwards. Mining operation already		

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	comments of inspecting Officer on waste dump management	suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read with 11(1) of MCDR, 2017.
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5)Solid Waste Management-Backfilling:--

SL.No	Item	Proposals (FY 2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No such proposals.	NIL	_____
5b	Area under backfilling of mined out area	NA	NIL	_____
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	NA	NIL	_____
5d	Total area fully reclaimed & rehabilitated	NA	NIL	_____
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Existing pits were not matured for backfilling as ore/mineral not exhausted.		

6)Progressive Mine Closure Plan:---

SL.N.	Item	Proposals (FY 2022-23)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	Before 1 st July 2023.	Submitted on 27/9/23.	Non-Working Mine.
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	i) Nil ii) 0.5 Ha (on dumps) iii) 800 nos of saplings iv) NA v) Plantation vi) Rs 2500	i) Nil ii) Nil iii) Nil iv) Nil v) Plantation vi) NIL	Non-Working Mine.

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	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	i)NIL ii) NIL iii)NIL iv)NIL v)NIL	i)NIL ii) NIL iii)NIL iv)NIL v)NIL	_____
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i)NIL ii)Nil iii)Nil	i)NIL ii)Nil iii)Nil	_____
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone will be as per MOEF and SPCB guidelines.	Not carried out as non-working.	NIL
6f	General remarks of inspecting Officer on PMCP compliance & progressive closure operation etc	No working from Spetember-2021 onwards. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read with 11(1) of MCDR, 2017.		

7)Mineral Conservation:---

SL.No	Item	Proposals ((FY 2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting to Fines & Lumps/CLO by crushing and screening within lease area.	NIL	Non-Working Mine.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	NIL	Non-Working Mine.

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7c	Different grade of mineral sorted out at mines	Iron Ore of different size (Fines & CLO/Lumps) and Grade wise sorting (Iron Grade range- 45 to Below 51 %Fe, 51- below 55% Fe, 55-below 58% Fe, 58-below 60% Fe, 60-below 62% Fe & 62- below 65% Fe, 65 % Fe & above)	NIL	Non-Working Mine.
7d	Any beneficiation process at mines	None; Except dry crushing & screening.	NIL	Non-Working Mine.
7e	General remarks of inspecting Officer on mineral conservation & beneficiation issues	There is no mineral conservation issue. Non-Working Mine.		

8)Environment:--

SL.No.	Item	Proposals (FY 2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No such proposals.	Nil	_____
8b	Concurrent use or storage of topsoil	No such proposals.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumping of OB wastes & mineral rejects proposed	Nil	Non-Working Mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals	NIL	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals	NIL	Nil
8f	Baseline information on existence of plantation & additional plantation done	Plantation of 800 nos saplings proposed during FY 22-23.	NIL; Non-working mine.	_____
8g	Survival rate	NA	NA	_____
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on Haul roads, crushing & screening plant	Not Carried out as non-working.	_____

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		site and dump location etc using Water tanker to suppress the dust.		
8i	General remarks of inspecting Officer on aesthetic beauty in & around mines area.	Aesthetic beauty in & around mines area is good as lessee carried out plantation earlier. Presently mine was Non-working.		

9)Compliance of Rule 45:

SL.No.	Item	COMMENTS		Remarks.				
9a	Status of submission of Monthly and Annual returns	Presently regularly submitting the MRs. However, the S/C notice issued on 6/7/23 for non-submission of AR-2022-23 and subsequently, the AR received on 27/9/23. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read with 11(1) of MCDR, 2017. At the time of revocation, the delay amount/fine for delay in submission of AR under Rule 45(7A) of MCDR will be initiated.		Nil				
S.N.	Item	Details GIVEN in A.R.	Actual in field	_____				
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Arun Gupta Mines Manager: Shiri P.K. Das Geologist: Shri R.P. Singh	Not present at the time inspection. However, reported to be same.	Non-working mine.				
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(1) Covered under current (O/C) Workings- 59.60 Ha (2) Used for Waste Disposal- 9.30 Ha (3) Occupied by plant, buildings, residential, welfare, buildings and roads- 20.24 Ha (4) Other Purpose (including Mineral Storage)- 50.398 Ha	Actual also same as per AR except dump area	V/L issued.				
9d	Scrutiny of Annual return on afforestation	NIL	Actual also same as per AR	_____				
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	During year-22-23 <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Iron Unprocessed Ore</td> <td>NIL</td> </tr> <tr> <td>Iron Processed Ore</td> <td>NIL</td> </tr> </table>	Iron Unprocessed Ore	NIL	Iron Processed Ore	NIL	Actual also same as per AR as non-working mine.	_____
Iron Unprocessed Ore	NIL							
Iron Processed Ore	NIL							

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	<p>As on 31.03.2023 tonnes Stock Iron ROM: 208,161 t</p> <table border="1" data-bbox="600 259 979 1252"> <thead> <tr> <th colspan="2" data-bbox="608 300 971 367">Fines closing stock in tonnes</th> </tr> </thead> <tbody> <tr> <td data-bbox="608 367 794 423">51%- below 55 % Fe</td> <td data-bbox="794 367 971 423">Nil</td> </tr> <tr> <td data-bbox="608 423 794 479">55%- below 58%Fe</td> <td data-bbox="794 423 971 479">120</td> </tr> <tr> <td data-bbox="608 479 794 535">58%- below 60%Fe</td> <td data-bbox="794 479 971 535">11,995</td> </tr> <tr> <td data-bbox="608 535 794 591">60%- below 62%</td> <td data-bbox="794 535 971 591">26,578</td> </tr> <tr> <td data-bbox="608 591 794 647">62%- below 65%Fe</td> <td data-bbox="794 591 971 647">18,777</td> </tr> <tr> <th colspan="2" data-bbox="608 647 971 680">CLO stock in tonnes</th> </tr> <tr> <td data-bbox="608 680 794 770"><62% Fe (clo any size)</td> <td data-bbox="794 680 971 770">NIL</td> </tr> <tr> <td data-bbox="608 770 794 860">62%- below 65% Fe (5-18 mm)</td> <td data-bbox="794 770 971 860">NIL</td> </tr> <tr> <th colspan="2" data-bbox="608 860 971 893">Lumps stock in tonnes</th> </tr> <tr> <td data-bbox="608 893 794 949">55 to below 58 % Fe</td> <td data-bbox="794 893 971 949">17,039</td> </tr> <tr> <td data-bbox="608 949 794 1005">58 to below 60 % Fe</td> <td data-bbox="794 949 971 1005">44,186</td> </tr> <tr> <td data-bbox="608 1005 794 1061">60 to below 62 % Fe</td> <td data-bbox="794 1005 971 1061">15,389</td> </tr> <tr> <td data-bbox="608 1061 794 1117">62 to below 65 % Fe</td> <td data-bbox="794 1061 971 1117">52,426</td> </tr> <tr> <td data-bbox="608 1117 794 1173">65 % & above Fe</td> <td data-bbox="794 1117 971 1173">14,924</td> </tr> <tr> <td data-bbox="608 1173 794 1252"></td> <td data-bbox="794 1173 971 1252"></td> </tr> </tbody> </table>	Fines closing stock in tonnes		51%- below 55 % Fe	Nil	55%- below 58%Fe	120	58%- below 60%Fe	11,995	60%- below 62%	26,578	62%- below 65%Fe	18,777	CLO stock in tonnes		<62% Fe (clo any size)	NIL	62%- below 65% Fe (5-18 mm)	NIL	Lumps stock in tonnes		55 to below 58 % Fe	17,039	58 to below 60 % Fe	44,186	60 to below 62 % Fe	15,389	62 to below 65 % Fe	52,426	65 % & above Fe	14,924			Size ore stock observed to be obtained after screening or crushing of ROM. The same stock may be reflected under CLO (Calibrated Lump Ore)	V/L issued.
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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production: NIL; Ex-mine price: NIL	Non-working mine.	_____																																
9i	Scrutiny of Annual return on fixed assets	Fixed Value of Assets: Rs 2,76,04,781	Appear to be correct	_____																																
9k	Scrutiny of Annual return on mining machineries	Back Hoe: 6 nos; Rock Drill(150m) : 4 nos; Dumpers:17 nos ; Water tanker: 3 nos; Crusher: 2nos; Generator: 10 nos; Dozer: 2 nos Motor Grader: 1 nos.	Observed to be not-correct as non-working	V/L issued.																																

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(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 6/07/2021, the violation of rules 11(1) & 45(5) of MCDR 2017 were pointed out and subsequently, said rules complied on 20/11/21. Mining operation already suspended on 13/3/23 for non-compliance of rules 27(1)&(2) read with 11(1) of MCDR, 2017.

(b) During current inspection: The violation of Rule 45(7) of MCDR 2017 has been observed and the violation letter issued on 23/01/2024.

(11) On-line validation of star rating of templates submitted under rule 35 (FY-2022-23) has been made on 23/01/2024 for 1 star at RO level.

(12) The lessee was submitted DAI/drone survey data under rule 34A for FY 22-23 on 4/8/2023.

Date: 23/01/2024

(Prashant S. Hegde)
Regional Mining Geologist