

MCDR-MIFLOFE/46/2023-BBS-IBM_RO_BBS
INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

I/12987/2023

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/MB/MCDR-6/BBS

Mine code : 30ORI10013

- (i) Name of the Inspecting : **VPD**) **VIKRAM DESHPANDE**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri S.N. Mohanty, Consultant, Pradeept Mohapatra, Qu
Official with
Designation
- (iv) Date of Inspection : 22/06/2023
- (v) Prev.inspection date : 30/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GHUSURIA**
- (b) **Registration NO.** : **IBM/6670/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : ORISSA
District : MAYURBHANJ
Village : NETRAJHARAN
Taluka : RAIRANGPUR
Post office : PURNAPANI
Pin Code : 757043
FAX No. : 06794-222772
E-mail : skdagara@gmail.com
Phone : 9437178313
- (f) Police Station : Badampahad
- (g) First opening date : 09/03/2003
- (h) Weekly day of rest : SUN
2. Address for : VILL-BHAGABANDHI
correspondance : PO-PURUNAPANI
DIST-MAYURBHANJ
3. (a) Lease Number : ORI0115
- (b) Lease area : 92.89
- (c) Period of lease : 20
- (d) Date of Expiry : 20/08/2004
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : D.C.DAGARA
D.C.DAGARA MINES OWNER
P.O.RAIRANGPUR MAYURBHANJ
ORISSA
Phone:
FAX :

Owner : D.C.DAGARA
AT/PO.BAHALDA ROAD
MAYURBHANJ ORISSA
Phone: 06794-22772
FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06/04/2009
Plan/Scheme of Mining		FMCP under 23C(1)	06/04/2009
		Mining Scheme rule 12 MCDR1988	27/02/2015
		MP review under 17(1) MCR 2016	22/11/2017

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no proposal for exploration in the year 2022-23	Not Applicable	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance.
1b	Exploration over lease area for geological axis 1 or 2	The lease area explored under G1 & G2 level of exploration is 11.879 ha.	The lease area explored under G1 & G2 level of exploration is 11.879 ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	None	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	None	

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1e	Balance reserve as on 01/04/20	As per modification of Mining Plan dated 22/11/2017 the reserves/resources a r e : Iron Ore: Reserve are 0.36 million tonnes and remaining resources : 2.0 million tonnes Quartzite: Reserve are : 0.11 million tonnes and remaining resources : 0.05 million tonnes Soapstone: Reserve are : 0.10 million tonnes and remaining resources : 0.02 million tonnes	The mine is not in operation since 25/11/2009 for want of statutory clearance.
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1f General remarks of inspecting officers on geology, exploration etc

Ghusuria area is located between Badampahad and Sulaipat. The main rock types found in the area are shale, phyllites, quartzites, Banded HematiteQuartzite (BHQ) and dolerite. In addition to this, a peculiar type of quartzite is found on the top of the iron ore body associated with BHQ. The general stratigraphy of the area is , however, as follows : Soil with Laterite Fragments Iron ore band BHQ Quartzite Phyllite Shale - Base not seen - The general strike of the hill is NE-SW with almost vertica

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	TP Quarry & D1Quarry, The orientation of all benches will be in SW to NE, Cross Section G11-G11', G14-G14' and G15-G15	None.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Proposed in Mineral.	None	

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2c	Stripping ratio or ore to OB ratio	Iron: 1:0.67, Quartzite-1:0.21, Soapstone-1:0.71	None	
2d	Quantity of topsoil generation in m3	No Proposal	None	
2e	Quantity of overburden generation in m3	33848 Cu.m	None	Iron, Quartzite and soapstone together
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is not in operation since 25/11/2009 for want of statutory clearance.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Number of pits proposed for production was 4.	None	
3b	Quantity of ROM mineral production proposed	The proposed ROM production in 2022-23 for Iron ore was 62608 MT, Quartzite: 42776 MT and Soapstone: 6240 MT	None	
3c	Recovery of sailable/usable mineral from ROM production	Proposal in 2022-23: Recovery of usable mineral from ROM Iron-80%; Soapstone-30%; Qtz-60%	None	
3d	Quantity of mineral reject generation	No proposal	None	

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3e	Grade of mineral rejects generation and threshold value declared.	NA	None
3f	Quantity of sub grade mineral generation.	Proposal for the year 2022-23: Mineral Reject generation from Iron Ore:23734 MT, Quartzite:2904 MT and Soapstone:1040 MT	None
3g	Grade of sub grade mineral generation	Proposal for Iron Ore between Fe 45% to 58%. , Quartzite: SiO2 60%-95% and Soapstone: MgO 20%-30%.	None
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	None
3j	Provision of drilling and blasting in mineral benches	Yes, Proposed	None
3k	Provision of mining machineries in mineral benches	Yes, provision proposed	None

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes,	None	
3m	Total area covered under excavation/pits	Area under mining at the end of scheme of mining period 5.835 ha	None	
3n	Ore to OB ratio for the pit/mine during the year.	Stripping Ratio for Iron Ore :1:0.06 Stripping Ratio for Quartzite :1:0.06 Stripping Ratio for Soapstone :1:0.71	None	
3o	Total area put in use under different heads at the end of year	Area under mining at the end of scheme of mining period 5.835 ha	None	
3p	Production of ROM mineral during the last five year period as applicable	Year -2018-19- Iron: 18900 MT Year-2019-20- Iron : 21161 MT Year-2020-21- Iron: 54817 MT Year-2021-22- Iron: 63532 MT Year-2022-23- Iron-62608 MT	None	The mine is not in operation since 25/11/2009 for want of statutory clearance.
3q	General remarks of inspecting officers on method of mining etc.			The mine is not in operation since 25/11/2009 for want of statutory clearance.

Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for top soil generation. It has been proposed that the waste and subgrade generated will be dumped separately	None	
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for top soil generation. The waste generated from iron ore quarry will be dumped at the location 150-260N and 30W to 130 W. The waste generated from quartzite will be dumped at the location 517-605N and 685W to 885E. The waste generated from soapstone will be dumped at the location 690-750N and 560W to 665E.	None	
4c	Number of dumps within lease area and outside of lease area	Within the lease-4 Outside-Nil	Within the lease-4 Outside-Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL	Outside the UPL	
4e	Number of active and alive dumps.	Number of active and alive dumps 4	Number of active and alive dumps 4	
4f	Number of dead dumps.	No Proposal	None	

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4g	Number of dumps established.	No Proposal	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	None	
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	None	
4j	Number of settling ponds	No Proposal	None	
4k	Specific comments of inspecting officer on waste dump management			The mine is not in operation since 25/11/2009 for want of statutory clearance.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal	None	
5b	Area under backfilling of mined out area	No Proposal	None	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	None	
5d	Total area fully reclaimed and rehabilitated	No Proposal	None	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mine is not in operation since 25/11/2009 for want of statutory clearance.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	No Proposal	None	
6b	Area available for rehabilitation (ha) .	No Proposal	None	
6c	afforestation done (ha).	0.627 ha	None	
6d	No. of saplings planted during the year	1000	None	
6e	Cumulative no .of plants	6046	None	
6f	Any other method of rehabilitation	No Proposal	None	
6g	Cost incurred on watch and care during the year	No Proposal	None	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	None	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	None	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No Proposal	None	

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	None	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	None	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	None	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	None	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring of ambient air quality, noise quality & water quality	None	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mine is not in operation since 25/11/2009 for want of statutory clearance.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified	None	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	None	
7c	Different grade of mineral sorted out at mines.	Not specified	None	
7d	Any beneficiation process at mines .	No Proposal	None	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mine is not in operation since 25/11/2009 for want of statutory clearance.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	None	
8b	Concurrent use or storage of topsoil	No Proposal	None	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	None	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	None	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	None	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Proposal	None	
8g	Survival rate	No Proposal	None	
8h	Water sprinkling on roads to control airborne dust			Water sprinkling by Water Tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine is not in operation since 25/11/2009 for want of statutory clearance.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return to be submitted by 10th of each month and Annual Return to be submitted by 1st July every year.	No Monthly or Annual Returns is being submitted	The mine is not in operation since 25/11/2009 for want of statutory clearance. Also lessee has been issued show cause notice on 11/07/2023 for violation of rule 45(b)(i) and 45(c)(i) of MCDR 2017.

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines manager, Mining engineer & Geologist have not been appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR for 2022-23 not submitted.
9d	Scrutiny of Annual return on afforestation	AR for 2022-23 not submitted.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR for 2022-23 not submitted.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR for 2022-23 not submitted.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR for 2022-23 not submitted.
9h	Scrutiny of Annual return on fixed assets	AR for 2022-23 not submitted.
9k	Scrutiny of Annual return on mining machineries	AR for 2022-23 not submitted.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 45(1)(a)	11/07/2023				
Rule 45(1)(b)	11/07/2023				

Date :**(VIKRAM DESHPANDE)**

Indian Bureau of Mines