

MCDR-MiFLOFE/34/2023-BBS-IBM_RO_BBS
INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

I/9522/2023

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : MCDR-MiFLOFE/34/2023-BBS-IBM_

Mine code : 30ORI08087

- (i) Name of the Inspecting : VPD) VIKRAM DESHPANDE
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Praveen Kumar Mahanta, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 27/04/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : MAHAPARBHAT
- (b) Registration NO. : IBM/4269/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 06625235228
E-mail : mgromcmpt@gmail.com
Phone : 9437654957
- (f) Police Station : Bamebari
- (g) First opening date : 16/05/2022
- (h) Weekly day of rest : SUN
2. Address for : Village: Unchbali, PO: Bamebari
correspondance Taluka: Barbil
District: Keonjhar
3. (a) Lease Number :
(b) Lease area : 68.00 hectares
(c) Period of lease : 20 years, 09.06.2008 to 08.06.2028
(d) Date of Expiry : 08.06.2028
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : M/S OMC LTD.
AT & PO: TIRING PAHAR DIST.
KEONJHAR, ORISSA KEONJHAR
ORISSA
Phone:06766-233064
FAX :06766-233085

Owner : M/S OMC LTD.
M/S OMC LTD. OMC HOUSE,
POST BOX NO. 34
BHUBANESWAR-751010 KEONJHAR
ORISSA
Phone: 06766-233064
FAX : 06766-233085

Agent : Abni Kanta Pradhan
OMC office Barbil Dist-
Keonjhar BHUBNESHWAR ORISSA
Phone: 0674-2377400
FAX : 0674-2580145

Mining Engineer

Name : Nirmal Kumar Munda, Full Time
Qualification : BTech Mining
Appointment/ : 16/05/2022
Termination date

Geologist

Name : Binay Kumar Ranjit, Full Time
Qualification : Msc Geology
Appointment/ : 09/12/2022
Termination date

Manager

Name : Praveen Kumar Mahanta
Qualification : B Tech Mining Engineering
Appointment/ : 04/12/2021
Termination date

6. Date of approval of Mining
Plan/Scheme of Mining

: 1. MS/FM/34ORI/BHU/201718
01/04/2018 – 31/03/2023.

2. BBS/KJR/IRON/2183/RMP/2022-23, Dtd: 09/01/2023
Period:2023-2028

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	70	Total 63 nos. of boreholes were remaining as backlogs from 2018-19(35) and 2019-20(28). Hence, all the backlogs were cleared within the FY 22-23.
1b	Exploration over lease area for geological axis 1 or 2	G2 to G1	G2 to G1(7.22 ha)	The mine was opened on 16/05/2022.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Agency: MMPL Exp: Rs 17575552.5	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	As per mining plan approved as on 27/12/2017: 111-0 121-7537781	111 - 0.00 121 - 6542181 122 - 113813	All backlog of boreholes have been completed. The mine has opened from 16/05/2022.
1f	General remarks of inspecting officers on geology, exploration etc			The mine was not in operation due to want of forest clearance and has started working from 16/05/2022 onwards. The area has been explored by clearing the backlog of borehole drilling.

Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2420407N-2421000N; 337227E-337460E	2420407N-2421000N; 337227E-337460E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: 0 OB and mineral: 6	Topsoil: 0 OB and mineral: 6	
2c	Stripping ratio or ore to OB ratio	1:0.42	1:0.342	
2d	Quantity of topsoil generation in m3	Nil	602 m3	The mine was in operation for major part of the plan period due to want of forest clearance. The mine has commenced working from 16/05/2022 hence the topsoil generated against no proposal.
2e	Quantity of overburden generation in m3	415760 m3	341304 m3	

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In all there are 03 pits within the lease however, Mining Operations are confined to one pit viz. Quarry 3. Benches have height of 6m and width of 12m. However, at mRL 578 during the inspection it was observed that the top bench had collapsed. Violation of Rule 11(1) has been issued to the lessee on 10/05/2023. The orthomosaic image of the lease also shows mining within Quarry 3.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	Quarry No. 03
3b	Quantity of ROM mineral production proposed	996750 tonnes	995600 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	98%	98%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	

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3f	Quantity of sub grade mineral generation.	80000 m3	23102 m3	
3g	Grade of sub grade mineral generation	45%<=Fe%<55%	45%<=Fe%<55%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.		Analysis for subgrade.	
3j	Provision of drilling and blasting in mineral benches	Yes, provision made.	As proposed.	Drill Dia- 115mm Burden,m-2.5 Spacing,m-3 Pattern:Staggered Initiation system: Nonel
3k	Provision of mining machineries in mineral benches	Yes.	Yes as proposed.	Excavator, 2.5m3 , Dumpers, 35T
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches OB& Mineral:6m	Height of benches OB& Mineral:6m	Topmost bench in Quarry 03 at 578 mRL was found collapsed during inspection for which violation of Rule 11(1) has been issued to the lessee on 10/05/2023.
3m	Total area covered under excavation/pits	17.655Ha	9.79 Ha	The mine was not in operation due to want of forest clearance for a major plan period and has started working since 16/05/2022.

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3n	Ore to OB ratio for the pit/mine during the year.	1:0.42	1:0.342	
3o	Total area put in use under different heads at the end of year	44.393 Ha	14.31 Ha	The mine was not in operation due to want of forest clearance for a major plan period and has started working since 16/05/2022.
3p	Production of ROM mineral during the last five year period as applicable	(in Million Tonnes) 2018-19 : 0.694971 2019-20 : 0.9862857 2020-21 : 0.9746826 2021-22 : 1.0219425 2022-23 : 0.99675	(in Million Tonnes) 2018-19: Nil 2019-20:Nil 2020-21: Nil 2021-22: Nil 2022-23: 0.995600	The mine was not in operation due to want of forest clearance for a major plan period and has started working since 16/05/2022.
3q	General remarks of inspecting officers on method of mining etc.			The mine was not in operation due to want of forest clearance for a major plan period and has started working since 16/05/2022. The mining operations are carried out by mechanized opencast method.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil: 336829.137N-336948.891N 2420930.863E-2421061.224E OB:- Backfilling: 2421008N-2421380N; 336888E-337207E	Top Soil: 336829.137N-336948.891N 2420930.863E-2421061.224E OB: 2421071.139N-2420814.288 N 337294.605E-337039.804E	
4b	Location of topsoil, OB and mineral reject dumps	Top soil: 336829.137N-336948.891N 2420930.863E-2421061.224E OB: - Backfilling: 2421008N-2421380N; 336888E-337207E	Top Soil: 336829.137N-336948.891N 2420930.863E-2421061.224E OB: 2421071.139N-2420814.288 N 337294.605E-337039.804E	As per approved mining plan, the dump location was 2420915N-2421100N & 337000E-337292E for the 1st year and 2nd year i.e., 2018-19 & 2019-20 and rest of the subsequent years was proposed for backfilling. For 4th (21-22) and 5th year (22-23) the backfilling was proposed in quarry 2. The OB generated from quarry-3(proposed Pit for 2022-23), will be shifted for backfilling. Since the mining operation commenced from 16.05.2022, no excavation the proposed backfilling quarry was carried out.
4c	Number of dumps within lease area and outside of lease area	Within the lease: 01 Outside the lease: 00	Within the lease: 01. Outside the lease: 00.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	

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4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	02	Nil	
4g	Number of dumps established.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	As per proposal	
4i	Length of Retaining wall or garland drain all along dumps	R.W -Nil G.D.- Nil	R.W - 45m G.D - 350m	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			One dump exists within the lease which is properly terraced and secured by way of retaining wall.

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.	Nil	Nil	Since, the mines has commenced its operation from 16.05.2022, pit 3 is the active quarry and has not been fully extracted. Hence backfilling has not yet started.
5b	Area under backfilling of mined out area		Nil	Since, the mines has commenced its operation from 16.05.2022, pit 3 is the active quarry and has not been fully extracted. Hence backfilling has not yet started.

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	Topsoil Generated has been used for plantation purpose.
5d	Total area fully reclaimed and rehabilitated		Nil	Since, the mines has commenced its operation from 16.05.2022, pit 3 is the active quarry and has not been fully extracted. Hence backfilling has not yet started.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The lessee could not undertake backfilling and plantation as per proposal because the mine was not in operation for major part of the plan period and the mining operations have from 16.05.2022. Further, pit 3 is the active quarry and has not been fully extracted.

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).	As per rule. Before 1st July of every year.	Will be submitted before due date.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	0.14 ha	

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6d	No. of saplings planted during the year	Nil	100	
6e	Cumulative no .of plants	0	3850	
6f	Any other method of rehabilitation	None	None	
6g	Cost incurred on watch and care during the year	None	None	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	435x185x14	None	Since, the mines has commenced its operation from 16.05.2022, pit 3 is the active quarry and has not been fully extracted. Hence backfilling has not yet started.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	None	None	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air and Water Monitoring.	Regular monitoring of Air and Water done.	Within the limit as prescribed in SPCB/CPCB.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Since, the mines has commenced its operation from 16.05.2022, pit 3 is the active quarry and has not been fully extracted. Hence area for reclamation and rehabilitation has not yet started. Further all the statutory returns are due and are under process of submission.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting: Fines, CLO etc.	Grade wise sorting: Fines, CLO etc.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	

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7c	Different grade of mineral sorted out at mines.	CLO (10-40), 62-65%Fe; Fines (-10mm), 60-62%Fe	CLO (10-40), 62-65%Fe; Fines (-10mm), 60-62%Fe
7d	Any beneficiation process at mines .	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	As per proposal	
8b	Concurrent use or storage of topsoil	None	56 Cu. M	Used for Plantation Purpose.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, for overburden	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		100	Cummulative plantation of 3850 done.
8g	Survival rate		87%	
8h	Water sprinkling on roads to control airborne dust	Sprinkling through truck mounted water sprinkler.	Regular water sprinkling through truck mounted water sprinkler in mines and outside mines by 8Kl, 12Kl water tankers.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine was not in operation for majority of the plan period. The mines has commenced its operation from 16.05.2022, pit 3 is the active quarry and has not been fully extracted. Hence area for reclamation and rehabilitation has not yet started. Overall aesthetic beauty of the mine is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return before 10th of every month. Annual return before 1st day of July.	Monthly returns are being submitted regularly on time. Annual return for the year 2022-23 is in process of submission.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Annual return for the year 2022-23 is in process of submission. Mining Engineer:1 Geologist:1 Manager:1	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Annual return for the year 2022-23 is in process of submission.	
9d	Scrutiny of Annual return on afforestation		Annual return for the year 2022-23 is in process of submission.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Annual return for the year 2022-23 is in process of submission.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Annual return for the year 2022-23 is in process of submission.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Annual return for the year 2022-23 is in process of submission.	
9h	Scrutiny of Annual return on fixed assets		Annual return for the year 2022-23 is in process of submission.	
9k	Scrutiny of Annual return on mining machineries		Annual return for the year 2022-23 is in process of submission.	The mine was not in operation for major part of the plan period. The mine has commenced operations from 16/05/2022.

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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
MCDR17	Rule 11(1)	10/05/2023			

Date :**(VIKRAM DESHPANDE)**

Indian Bureau of Mines