

MCDR-MiFLOMn/1/2023-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/7955/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/JBP/LAT-16

Mine code : 75MPR18015

- (i) Name of the Inspecting : C004) ROBERT SIMON C
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : SHRI VINOD KUMAR SHRIVASTAVA (Lessee)
Official with
Designation
- (iv) Date of Inspection : 22-OCT-21
- (v) Prev.inspection date : 07-MAR-20

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KURRO (7.30 HA)
- (b) Registration NO. :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : KURRA
Taluka : SIHORA
Post office : PIPARIA
Pin Code : 483220
FAX No. : NIL
E-mail : NIL
Phone : 94251500837/ 07624-265026
- (f) Police Station : SIHORA
- (g) First opening date : 01-MAR-00
- (h) Weekly day of rest : SUN
2. Address for : SHRI VINOD KUMAR SHRIVASTAVA
correspondance P.O. GANDHIGRAM (BUDAGAR), DIST. JABALPUR (M.P.)
3. (a) Lease Number :
- (b) Lease area : 7.30
- (c) Period of lease :50y
- (d) Date of Expiry : 26/03/2048
4. Mineral worked : LATERITE Main
MANGANESE ORE Associated

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5. Name and Address of the

Lessee : VINOD KUMAR SHRIVASTAVA
P.O.GANDHI GRAM,
TAH.SIHORA, JABALPUR
MADHYA PRADESH
Phone:94251500837/ 07624-265026
FAX :NIL

Owner : VINOD KUMAR SHRIVASTAVA
P.O.GANDHI GRAM,
TAH.SIHORA, JABALPUR
MADHYA PRADESH
Phone: 94251500837/ 07
FAX : 07624-265026

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	20-JUL-09
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	06-MAY-15
	:	MP review under 17(1) MCR 2016	30-NOV-18

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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	nil	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	G-1 -5.50 ha G-2 -1.80 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	1.80 ha to be explored in G1.	
1e	Balance reserve as on 01/04/20	122-483898	122-483898	
1f	General remarks of inspecting officers on geology, exploration etc			1.80 ha yet to be explored in G1.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E412734-E412929 & N2598105-N2598210	E412734-E412929 & N2598105-N2598210	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches were proposed in laterite and manganese	Separate benches were maintained	
2c	Stripping ratio or ore to OB ratio	1:1.24	1:0.93	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	38756	12000	Violation pointed out under rule 11(1) of MCDR 2017.

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development is lagging behind the approved proposals. Violation pointed out under rule 11(1) of MCDR 2017.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	31005	12782	Violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	Recovery - 20% for Manganese	Recovery - 20% for Manganese	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Not Proposed	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Not proposed	Nil	

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3k	Provision of mining machineries in mineral benches	Proposed	Excavator and trucks were being used.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	3 nos of Benches in ore of Average height 6m & 1 (waste) Bench of Average height 2 m	
3m	Total area covered under excavation/pits	2. 87 ha	2.439 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.24	1:0.93	
3o	Total area put in use under different heads at the end of year	4.03 ha	2.8 ha approx..	
3p	Production of ROM mineral during the last five year period as applicable	2016-17-23092 t 2017-18-3775 T 2018-19-16752 T 2019-20-23888 T 2020-21-31005 T	2016-17-4732 t 2017-18- 3747 T 2018-19- 20638 T 2019-20-16295 T 2020-21-12782 T	
3q	General remarks of inspecting officers on method of mining etc.			It was proposed to produce 31005 tonnes of Manganese ore for the year 2020-21 but only 12782 tonnes of Manganese ore is achieved. Violation pointed out under rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of Mineral & OB proposed	Separate dumping of Mineral & OB maintained	

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4b	Location of topsoil, OB and mineral reject dumps	Western part of the lease area	Western part of the lease area	
4c	Number of dumps within lease area and outside of lease area	02	02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	02	01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drains for mine drainage proposed	The Garland drains were not properly maintained around the toe of the waste dumps in the lease.	Violation pointed out under rule 37(2) of MCDR 2017
4i	Length of Retaining wall or garland drain all along dumps	Garland drains length not proposed	The Garland drains were not properly maintained around the toe of the waste dumps in the lease.	Violation pointed out under rule 37(2) of MCDR 2017
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			The Garland drains were not properly maintained around the toe of the waste dumps in the lease. Violation pointed out under rule 37(2) of MCDR 2017

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.	Not proposed	Nil	
5b	Area under backfilling of mined out area	Not proposed	Nil	

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area is not mature enough to carryout backfilling & reclamation. Hence no specific comments.

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).	Proposed	Not submitted	Violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.1125 ha	PMCP report not submitted	violation pointed out under rule 26(2) of MCDR 2017.
6d	No. of saplings planted during the year	125 nos within lease	325 nos within lease	violation pointed out under rule 26(2) of MCDR 2017.
6e	Cumulative no .of plants	Not proposed	700 nos approx.	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA

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6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly PMCP report not submitted. Violation pointed out under rule 26(2) of MCDR 2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process adopted at mines only manual sorting and dry screening was observed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil	

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8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Separate dumps for overburden waste rock maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Dumps for overburden waste rock proposed	Separate dumps for overburden waste rock maintained	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Yearly PMCP report not submitted.	violation pointed out under rule 26(2) of MCDR 2017.
8g	Survival rate	Not proposed	80% as per AR	
8h	Water sprinkling on roads to control airborne dust	Proposed	During the inspection it was observed that proper water sprinkling was not carried out to suppress the dust arising out of mining activities.	Violation pointed out under Rule 40 of MCDR 2017.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area was well maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	proposed	Monthly Return for the month of October 2021 & Annual Return for the year 2020-21 was not submitted on time.	Violation pointed out under rule 45(5) (b) and 45(5) (c) of MCDR 2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer in charge ABHISHEK KUMAR Geologist in charge SOURABH BANKEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Covered under current (O/C) Workings 2.100 Used for waste disposal 0.239 Occupied by plant, buildings, residential, welfare buildings & roads 0.450	
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 325 (ii) Survival rate in percentage 80.00	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 12782.655 0.000	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	(% of Mn content) Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Below 25% Mn 11104.345 12782.655 10913.900 12973.100 1528.00
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs) 359296
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

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

Violation observed				Show course position		
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	03-NOV-21	10-JAN-22			
MCDR17	Rule 26(2)	03-NOV-21	10-JAN-22			
MCDR17	Rule 37(2)	03-NOV-21	10-JAN-22			
MCDR17	Rule 40	03-NOV-21	10-JAN-22			
	Rule 45(5) (a)	03-NOV-21	10-JAN-22			
	Rule 45(5) (b)	03-NOV-21	10-JAN-22			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines