

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-66/NGP

Mine code : 40MPR01064

- (i) Name of the Inspecting : **G008**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Devendra Trivedi, Lessee Representative, Shri Ra
Official with
Designation
- (iv) Date of Inspection : 09-MAR-22
- (v) Prev.inspection date : 07-MAR-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KATANGJHARI II (5.26 HA.**
- (b) **Registration NO.** : **IBM4371/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : BALAGHAT
Village : KATANGHARI
Taluka : BALAGHAT
Post office : KATANGHARI
Pin Code : 481332
FAX No. : 07632-240516
E-mail : pradyuman@hotmail.com
Phone : 8435002150
- (f) Police Station : WARASEONI
- (g) First opening date : 01-MAR-10
- (h) Weekly day of rest : SAT
2. Address for :
correspondance
3. (a) Lease Number : MPR2556
(b) Lease area : 5.26
(c) Period of lease : 50
(d) Date of Expiry : 25-MAR-57
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S J. K. MINERALS
POST BOX NO. 1 MAIN
ROAD, BALAGHAT DISTT.
BALAGHAT (MP) BALAGHAT
MADHYA PRADESH
Phone:
FAX :

Owner : M/s J.K.Minerals
Main Road ,Balaghat Distt.
Balaghat (MP) BALAGHAT
MADHYA PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 11-JAN-07
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 05-NOV-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 Bore holes	03 Bore holes	Violation pointed out for the same.
1b	Exploration over lease area for geological axis 1 or 2	Exploration proposed to be done in G-1	Not completed as per approved document	Violation pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	G2- 1.44 Ha Non Mineralised - 3.8 Ha	Exploration not done in 2018-19. Violation pointed out for the same.
1e	Balance reserve as on 01/04/20		Total Reserve 8020.5 tone	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not done in 2018-19. Violation pointed out for the same.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E/W 300/100 and N/S 200/400 in local grid at South East part of the lease area.	E/W 300/100 and N/S 200/400 in local grid at South East part of the lease area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1.3.94	1:1.8	Development is lagging form the proposed quantity. Violation pointed out for the same.

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	3913 cubic meter	1581 cubic meters	Violation pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			mine development was not done as per the approved proposal. Violation pointed out for the same.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	991 Tone	979.500 Tone	
3c	Recovery of sailable/usable mineral from ROM production	100%	60%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
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	Not applicable
3j	Provision of drilling and blasting in mineral benches	Jack hammer - 34mm dia depth of hole 0.75m with spacing 1.1m	Jack hammer - 34mm dia depth of hole 0.75m with spacing 1.1m
3k	Provision of mining machineries in mineral benches	No	No
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	2.493 Ha	2.493 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1.3.94	1:1.8
3o	Total area put in use under different heads at the end of year	3.491 ha	3.491 ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1041.6 T 2017-18 - 1041.6 T 2018-19 - 991.0 T 2019-20 - 991 T 2020-21 - 991 T	2016-17 -1036.45 T 2017-18 -1001.23 T 2018-19 -145.833 T 2019-20 - 931 T 2020-21 - 979 T
3q	General remarks of inspecting officers on method of mining etc.		Development is lagging form the prposed quantity. Violation pointed out for the same.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	yes	
4b	Location of topsoil, OB and mineral reject dumps	E/W 100/200 and N/S 200/400 in local grid at South west of the lease area.	E/W 100/200 and N/S 200/400 in local grid at South west of the lease area.	
4c	Number of dumps within lease area and outside of lease area	03	03	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	out of UPL	out of UPL	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	01	01	
4g	Number of dumps established.	Not applicable	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Garland drain maintained.	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	110 m	
4j	Number of settling ponds	Not proposed	One	
4k	Specific comments of inspecting officer on waste dump management			The dumps were proposed to be used for reclamation & rehabilitation of mined out pit after mining

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	backfilling proposed after full extraction of mineral	As per approved proposals, Backfilling was not done in 7.5m barrier zone	
5b	Area under backfilling of mined out area	7.5 meter barrier zone	Not done as per proposal	Violation pointed out for same.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	No top soil generated	Violation pointed out for lagging in development.
5d	Total area fully reclaimed and rehabilitated	Backfilling proposed in 7.5 meter barrier zone	Not done as per proposal	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling proposed in 7.5 meter barrier zone. Not done as per proposal. Violation pointed out for same.

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).	Yes	Not submitted	Violation pointed out for the same.
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha) .	0.05Ha	0.036 Ha	
6d	No. of saplings planted during the year	50	102	

6e	Cumulative no .of plants	300	556	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not proposed	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Backfilling proposed in 7.5 meter barrier zone.	Not done as per proposal	Violation pointed out for same.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Yes	Not filled	Backfilling not started
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Plantation on backfilled 7.5 mtr barrier zone	Not done as per proposal	Violation pointed out for same.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 Trees	50 Trees	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.05 HA	0.08 HA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2020-21 Violation pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	<25% Mn 25% -35% Mn 35% - 45% Mn Above 45%	<25% Mn 25% -35% Mn 35% - 45% Mn Above 45%	

7d	Any beneficiation process at mines .	Not proposed	Not done. only manual jigging
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)	Separate stack of top soil	Separate stack of top soil	
8b	Concurrent use or storage of topsoil	Storage of top soil at South west of lease area	Storage of top soil at South west of lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate Stacking of OB	Separate Stacking of OB	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Not started	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation is to be done at waste land	Plantation is being done.	
8g	Survival rate	80%	approx. 60 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation was done in the green belt. the mine needs systematic development of the benches

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR from Apr - 20 to Mar - 21 and AR of 2020-21 are to be submitted	MR from Apr - 20 to Mar - 21 and AR of 2020-21 are submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Not appointed	Violation pointed out
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under current working - 2.493 ha Reclaimed/Rehabilitated area -00 ha Used for waste disposal - 00.998 ha	
9d	Scrutiny of Annual return on afforestation		Total 102 trees planted	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM - 979.500 Tonnes (As per AR)
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	as per AR
9h	Scrutiny of Annual return on fixed assets	as per AR
9k	Scrutiny of Annual return on mining machineries	as per AR

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	23-MAR-22			
MCDR17	Rule 26(2)	23-MAR-22			
MCDR17	Rule 27(1)	23-MAR-22			
MCDR17	Rule 55(1) (3)	23-MAR-22			

Date :

(ABHISHEK RANJAN GAUTAM)

Indian Bureau of Mines