

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-42/NGP

Mine code : 40MPR01030

- (i) Name of the Inspecting : **KQ14**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri J.P. YADAV, HIMANSHU CHURHE, RAJESH NIHA, R.N. G
Official with
Designation
- (iv) Date of Inspection : 06-MAR-20
- (v) Prev.inspection date : 24-NOV-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KATANGJHARI**
- (b) **Registration NO.** : **IBM/4371/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : BALAGHAT
Village : KATANGJHARI
Taluka : WARASEONI
Post office : KATANGJHARI
Pin Code : 481332
FAX No. : 07632-240516
E-mail : pradyuman@hotmail.com
Phone : 8435002150
- (f) Police Station : WARASEONI
- (g) First opening date : 03-DEC-99
- (h) Weekly day of rest : SAT
2. Address for : M/S J. K. MINERALS,
correspondance POST BOX NO.1 MAIN ROAD,
BALAGHAT (MP) 481 001
3. (a) Lease Number : MPR1924
- (b) Lease area : 3.38
- (c) Period of lease : 50
- (d) Date of Expiry : 29-OCT-49
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 :

Manager

Name : D N Dharmadhikari
 Qualification : Dipl. 2nd Class
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	08-OCT-02
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-JAN-05
		Mining Scheme rule 12 MCDR1988	05-AUG-09
		Modif.approved Mining Scheme	20-JUN-13
		Mining Scheme rule 12 MCDR1988	22-JAN-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1: 3.38 Ha	G1: 3.38 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		111-27729T. 121- 00.00T. 122- 53222T. 211 - 3807 T. 221 - 0.00 T. 222- 6078T.	
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Yes	Nil	No OB was removed for development of mine at the proposed area in the year 2018-19. Violation pointed out for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	

2c	Stripping ratio or ore to OB ratio	1:5.3	No OB removed	Violation pointed out for the same.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	5803.5 MT	Nil	Violation pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No OB was removed for development of mine at the proposed area in the year 2018-19. 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	2770 MT	1095 MT	
3c	Recovery of sailable/usable mineral from ROM production	60 % from Dump	100%	
3d	Quantity of mineral reject generation	Not proposed	736.0 MT	
3e	Grade of mineral rejects generation and threshold value declared.	Below 10% Mn.	Below 10% Mn.	
3f	Quantity of sub grade mineral generation.	No Mineral sub grades	No Mineral sub grades	
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	NA	
3j	Provision of drilling and blasting in mineral benches	Jack Hammer with Small Dia Hole	Jack Hammer with Small Dia Hole	
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	0.876 ha	0.876 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:5.3	Nil	No working in mine pit only dump working as per provided records.
3o	Total area put in use under different heads at the end of year	2.9177 Ha	2.011 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 3001.000T 2015-16 = 3000.000T 2016-17 = 3004.000T 2017-18 = 2770.000T 2018-19 = 2985.000T	2014-15 = 1454.500T 2015-16 = 740.500T 2016-17 = 1236.000T 2017-18 = 1392.500T 2018-19 = 1095.000T	

3q General remarks of inspecting officers on method of mining etc.

Only dump working has done in the year 2018-19 as per provided records.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	No working in the pit. only dump working	
4b	Location of topsoil, OB and mineral reject dumps	Yes	Yes	
4c	Number of dumps within lease area and outside of lease area	One dump with in lease area	Three dumps in the lease area	Violation pointed out for the same.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	
4e	Number of active and alive dumps.	One	Three temporary dumps	The mineral dumps extended with in the 7.5-meter statutory barrier zone at some places which was not proposed in the approved document. Violation pointed out for the same.
4f	Number of dead dumps.	Not proposed	Nil	Violation pointed out for the same.
4g	Number of dumps established.	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Garland drain are provided along the boundary	

4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NA	
4j	Number of settling ponds	Not proposed	Two	
4k	Specific comments of inspecting officer on waste dump management			The mineral dump was extended with in the 7.5-meter statutory barrier zone at some places which was not proposed in the approved document. Violation pointed out for the same.

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	NA	
5b	Area under backfilling of mined out area	Not proposed	Nil	No area matured for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Not done	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured for backfilling.

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) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	50 Nos.	61 Nos	
6e	Cumulative no .of plants	Not proposed	806 Nos	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Not proposed	Not available	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	No area matured for backfilling.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Not done
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	50 Nos	61 Nos
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	NA
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.	The garland drain provided around the pit was not maintained properly. Hence, water was inrushed in the mine till date of inspection. yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19. Violations pointed out for the same.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	1095 MT of different grades. Below 25% 25% to Below 35% 35% to Below 46%	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Below 25% 25% to Below 35% 35% to Below 46%	Below 25% 25% to Below 35% 35% to Below 46%	
7d	Any beneficiation process at mines .	Not proposed	NA	
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)	Not Proposed	Not done	top soil already removed from the working area.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	seperate temprory dumps for OB and mineral rejects.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	No area matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	area not matured.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation	Plantation done in the barrier zone.	
8g	Survival rate	Not proposed	about 80%	
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			

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR of Apr-18 to Mar-19 to be submitted and AR of 2018-19 to be submitted.	MR of Apr-18 to Mar-19 and AR of 2018-19 have been submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Shri Mukesh Chouby (Mine Manager), Shri M.S. Anuragi (Mining Engineer), Shri Himanshu Churhe (Mine Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	found as per AR	
9d	Scrutiny of Annual return on afforestation	Yes	Afforestation not done. Plantation done in barrier zone.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	Found as per AR	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Found as per AR.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	found as per AR	
9h	Scrutiny of Annual return on fixed assets	Yes	Found as per AR	
9k	Scrutiny of Annual return on mining machineries	Yes	Found 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)	15-APR-20			
MCDR17	Rule 26(1)	15-APR-20			
MCDR17	Rule 26(2)	15-APR-20			
MCDR17	Rule 31(1)	15-APR-20			
MCDR17	Rule 33	15-APR-20			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines