# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### Review and updation of Mining Plan REPORT

#### Jabalpur regional office

Mine file No : MP/KATNI/BX-56 Mine code : 07MPR47020

(i) Name of the Inspecting : KQ06 ) NARESH KUMAR KATARIYA

Officer and ID No.

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine : S/Sh Sandeepan Sarkar (QP), Sh Arpit Jain (Represanta

Official with Designation

(iv) Date of Inspection : 20-DEC-19

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : TIKARIYA (4.010 HA)

(b) Registration NO. : IBM/10077/2011

(c) Category : B Manual
(d) Type of Working : Opencast

(e) Postal address

State : MADHYA PRADESH

District : KATNI
Village : TIKARIA
Taluka : KATNI
Post office : PAHADI
Pin Code : 483501
FAX No. : 9630057584

E-mail : pacificbauxite@gmail.com

Phone : 9630057584

(f) Police Station : Pahari
(g) First opening date : 14-DEC-09

(h) Weekly day of rest : SUN

2. Address for : MotiBagh, Mai Nadi Par

correspondance HEERA GANJ, KATNI

(M.P.) 483501

3. (a) Lease Number : MPR2460 (b) Lease area : 4.01 (c) Period of lease : 20

(d) Date of Expiry : 21-SEP-29

4. Mineral worked : BAUXITE Main

FIRECLAY Associated
LATERITE Associated

5. Name and Address of the

Lessee : MOTILAL BAJAJ

HEERAGANJ, KATNI MADHYA

PRADESH

Phone: 07622 -320267, 325828

FAX :N.A

Owner : MOTILAL BAJAJ

HEERAGANJ, KATNI MADHYA

PRADESH

Phone: 07622 -320267,

FAX : N.A

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 24-JUL-14

Plan/Scheme of Mining

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	be explore	02 working pits in the 3.35 Ha area covered complete lease area under G1.	
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	Nil	Nil	
1e	Balance reserve as on 01/04/20		0.117201 Million Te	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration has not been done by Bore holes. 02 working pits found in the 3.35 Ha area which covered complete lease area under G1.

### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	developed	Pit 1 developed towards south	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Extension of pit/ benches were extended beyond the 7.5-meter statutory barrier zone, outside the lease area near to the BP 24 to BP 26, BP 26 to BP-01, BP 01 to BP 04, BP 05 to BP 19, BP 19 B and BP 21.	Violation pointed out for the same.

2c	Stripping ratio or ore to OB ratio	1: 0.58	1: 0.20	The mine development was lagging from the proposal . Violation pointed out for the same.
2d	Quantity of topsoil generation in m3		2981 m3	Violation pointed out for the same.
2e	Quantity of overburden generation in m3	4522 m3	610 m3	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 lagging from the proposal 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	35273 MT	35501 MT	Violation pointed out for the same.
3с	Recovery of sailable/usable mineral from ROM production	Not Proposed	Not Done	
3d	Quantity of mineral reject generation	Not Proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NA	
3f	Quantity of sub grade mineral generation.	Not Proposed	NA	

3g	Grade of sub grade mineral generation	Not Proposed	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NA	
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	Not Proposed	Not done	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
31	Whether height of benches in overburden and mineral suitable		lease benches have been merged up some places	Violation pointed out for the same.
	for method of mining proposed in MP/SOM	in the mine and active bench widths at the mine shall be not less than 7m at any place.	between BP no. 05 to BP no. 21 resulting height of the benches found more than the proposal and at some places in the southern and western side between BP no. 13 to BP no. 21 width of the benches found very less than as proporsed in approved in the document.	
3m	for method of mining proposed	and active bench widths at the mine shall be not less than 7m	no. 21 resulting height of the benches found more than the proposal and at some places in the southern and western side between BP no. 13 to BP no. 21 width of the benches found very less than as proporsed in approved in the	

30	Total area put in use under different heads at the end of year	3.55 На		3.33 На		Area put to use is less than the proposed area due to less development. Violation pointed out for the same.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 2017-18	35588t 35339t 35536t	2015-16 2016-17	8650t 49436.739t 35005t	
3q	General remarks of inspecting officers on method of mining etc.					Method of mining is not as per approved mining plan at some places. 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	OB is dumped within 7.5-meter statutory barrier zone in the western portion of the lease area from extension BP-23 to BP-24 which is not as per approved plan.	-
4b	Location of topsoil, OB and mineral reject dumps	Four Waste Dumps D1-Northwest D2-Central D3-Central D4-West	1	_
4c	Number of dumps within lease area and outside of lease area	temporary dumps with in lease area	Four Dumps within Lease Area.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposal given	with in UPL temporary dumps found. Area not matured for backfilling.	No afforestation and backfilling has been done for concurrent use of dumps in the year 218-19. Violation pointed out for the same.
4e	Number of active and alive dumps.	Proposal given	four temporary dumps found. Area not matured for backfilling.	Violation pointed out for the same.
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.	Under Water Quality Management, it was proposed to provide a garland drain around the pit to prevent inrush of rainwater from the seasonal nallah into the mining pit.	The garland drain provided around the pit was not maintained properly. Hence, the mine was flooded till date of inspection.	Violation pointed out for the same.
4i	Length of Retaining wall or garland drain all along dumps	the garland drain around the pit was proposed. Length of garland drain not proposed.	the garland drain provided around the pit was not maintained properly.	Violation pointed out for the same.
4 ј	Number of settling ponds	Not Proposed	Not Done	
4k	Specific comments of inspecting officer on waste dump management			Waste dump management not done as per approved plan. 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.	0.5418 Ha area were proposed after full extraction of	Area not matured for backfilling and backfilling has not been done in the year 218-19.	Violation pointed out for the same.
5b	Area under backfilling of mined out area	Backfilling in 0.5418 Ha area were proposed	No backfilling has done.	Violation pointedout for the same.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Spreading of top soil for plantation	Top soil is being used for plantation.	
5d	Total area fully reclaimed and rehabilitated	of 0.07 Ha and	no afforestation and backfilling has been done in the year 218-19.	Violation pointed out for the same.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6а	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) .	0.429ha	Not Done	Violation pointed out for the same.
6c	afforestation done (ha).	0.07 Ha	Nil	Violation pointed out for the same.
6d	No. of saplings planted during the year	150 saplings	Nil	Violation pointed out.
6e	Cumulative no .of plants	NA	NA	

6f	Any other method of	Not proposed	NA	
6g	rehabilitation Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.5418 На	Nil	Violation pointed out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.5418 Ha	Nil	Violation pointed out
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestati on on backfilled area	0.07 На	Nil	Violation pointed out.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	
61	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	200 plants	50 plants	Violation pointed out.

6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.07 На	Nil	Violation pointed out.
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation.	
бр	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 2018-19. 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	Manual sorting sizing	Done as proposed	
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	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)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Spreading for plantation	Spreading for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Backfilling in 0.5418 Ha area were proposed. But, no backfilling has been done in the year 218-19.	Violation pointed out for the same.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Nil	Violation pointed out for the same.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Plantation not done as per proposal	Violation pointed out for the same.

8g	Survival rate	Not propos	ed les	s than	50%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	3	
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 and AR not submitted till inspection.	Violation pointed out for the same.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR Not submitted	AR Not submitted	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR Not submitted	AR Not submitted	
9d	Scrutiny of Annual return on afforestation	AR Not submitted	AR Not submitted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR Not submitted	AR Not submitted	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR Not submitted	AR Not submitted	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR Not	submitted	
9h	Scrutiny of Annual return on fixed assets	AR Not	submitted	
9k	Scrutiny of Annual return on mining machineries	AR Not	submitted	Violation pointed out for the same.

# Details of violations observed during current inspection and compliance position of violation pointed out $\ensuremath{\mathsf{C}}$

Violati	ion observed	Show couse position			
Rule NO.	Issued on Compliance on	on Rule NO. Issued on Compliance o	on_		
MCDR17 Rule 11(1	) 20-JAN-20				
MCDR17 Rule 11(4	) 20-JAN-20				
Rule 26(2)	20-JAN-20				
MCDR17 Rule 31(4	) 20-JAN-20				
MCDR17 Rule 33	20-JAN-20				
MCDR17 Rule 45(5	) (k 20-JAN-20				
MCDR17 Rule 55(1)	(3) 20-JAN-20				

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines