

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LAT-38

Mine code : 75MPR47015

- (i) Name of the Inspecting : **M008**) **R.S.Munda**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 01/08/2017
- (v) Prev.inspection date : 15/07/2012

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TIKARIYA (27.02 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : NIWAR
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SHRI SHANKAR LAL VISHWAKARMA
correspondance JALPA DEVI WARD, KATNI (M.P.) 483501
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : LATERITE Main
BAUXITE Associated
FIRECLAY Associated

5. Name and Address of the

Lessee : SHANKAR LAL VISHWAKARMA
JALPA DEVI WARD KATNI
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : SHANKAR LAL VISHWAKARMA
JALPA DEVI WARD KATNI
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	03/06/2004
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	28/07/2009
	:	Mining Scheme rule 12 MCDR1988	02/05/2011
	:	Mining Scheme rule 12 MCDR1988	03/06/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	no exploration was proposed	not done	
1b	Exploration over lease area for geological axis 1 or 2	upto G1 level	area explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	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	reserve as on 1/07/2014 111-2468517 211-3225096 331-10050485	reserve as on 1/07/2014 111-2915208 211-3225096 331-10050485	
1f	General remarks of inspecting officers on geology, exploration etc			area already explored upto G1 level as per MP

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	northern part of area pit A	as per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	mineral bench 3.5 meter	mineral bench 4 meter	
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.10	
2d	Quantity of topsoil generation in m3	Not proposed	NIL	

2e	Quantity of overburden generation in m3	NIL	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	pit A	Pit A	
3b	Quantity of ROM mineral production proposed	275625	117000	
3c	Recovery of sailable/usable mineral from ROM production	198450	75000	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NIL	NIL	
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	not proposed	due to soft nature of mineral drilling and blasting not proposed
3k	Provision of mining machineries in mineral benches	for loading and transpottaion machinaries proposed	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.5 bench mineral bench	4 meter mineral bench height observed
3m	Total area covered under excavation/pits	45000 sq m	30000 sq m aprx
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.10
3o	Total area put in use under different heads at the end of year		
3p	Production of ROM mineral during the last five year period as applicable	2015-16=100800 2016-17=198450	2015-16=85000 2016-17=75000

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	PROPOSED	as per proposal	

4b	Location of topsoil, OB and mineral reject dumps	proposed	all around teh lease in scatered pattern	
4c	Number of dumps within lease area and outside of lease area	12	12	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	in side UPL	inside UPL	
4e	Number of active and alive dumps.	12 active dump	12 active dump	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	na	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	Not proposed	NA	
4k	Specific comments of inspecting officer on waste dump management			old dumps are in scattered pattern all around the lease area, advised to rehandle

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	no area is full extracted	

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

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).	NA	NA	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	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	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	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			no activity for PMCP observed in the lease area

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.	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			maual method for sorting is adopted in the lease arae

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	no top soil generated	
8b	Concurrent use or storage of topsoil	plantation	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	backfilling	as per prposal backfilling not started yet	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	
8g	Survival rate	80	NA	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal	
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	submitted		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	not given		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given		
9d	Scrutiny of Annual return on afforestation	NA		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given		
9h	Scrutiny of Annual return on fixed assets	given		
9k	Scrutiny of Annual return on mining machineries	given		

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

Date :

(R. S. Munda)

Indian Bureau of Mines