

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-27

Mine code : 75MPR47010

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr Mishra Geologist
Official with
Designation
- (iv) Date of Inspection : 08-FEB-20
- (v) Prev.inspection date : 16-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THARKA (12.97 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : THARKA
Taluka : KATNI
Post office : NIWAR
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SAT
2. Address for : SHRI POORAN LAL VISHWAKARMA
correspondance JALPADEVI 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 : POORAN LAL VISHWAKARMA
JALPA DEVI WARD KATNI
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : POORAN 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	16-APR-02
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	26-JUL-07
		Mining Scheme rule 12 MCDR1988	03-JUL-12
		MP modif under MCR 1960	03-OCT-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	it was proposed to drill 8 dth boreholes & 8 trial pits in the year 2019-20	no exploration was done (violations issued)	
1b	Exploration over lease area for geological axis 1 or 2	it was proposed to explore the area upto G1 level	Exploration was not done as per proposal	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No explortaion agency engaged	no explortaion work carried out	
1d	Balance area to be explored to bring Geological axis in 1 or 2	area proposed to be explored upto G1 level 12.97 hect	area partially explored upto G2 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2018 122-125523 222-39517 333-455093	as on 01.04.2019 122-80023 222-39517 333-455093	
1f	General remarks of inspecting officers on geology, exploration etc			proposed exploration was not carried out by the lessee, violation for the same was issued, mineralization of the ML area is of mahakaushal series of rocks fine to medium grain bauxite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	in the central part of the ML area in the Pit-G & Part of Pit F	as per the proposal the workign was done in proposed location with slight deviation in rate of progress	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	it was observed that mineral benches prepared of 3 meter in width & height	
2c	Stripping ratio or ore to OB ratio	1:2.33	1:1.86	
2d	Quantity of topsoil generation in m3	Nil	NIL-0	
2e	Quantity of overburden generation in m3	Nil-0	NIL-0	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			development work was in proposed location with slight deviation and lack in rate of process

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits	two pits Pit G & part of Pit F	
3b	Quantity of ROM mineral production proposed	38556 tonnes	35700 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	30 %	30 %	
3d	Quantity of mineral reject generation	16974 cubic meter	15960 cubic meter	

3e	Grade of mineral rejects generation and threshold value declared.	NIL	Nil-0
3f	Quantity of sub grade mineral generation.	Nil	NIL-0
3g	Grade of sub grade mineral generation	Nil	NIL-0
3h	Manual / Mechanised method adopted for segregating from ROM	manual method proposed	manual method adopted
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	not proposed neither adopted
3k	Provision of mining machineries in mineral benches	not proposed	not adopted
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3X3 meter of benches were proposed in mineral	3-4 meter benches prepared and maintained in the area suitable for mining
3m	Total area covered under excavation/pits	2.123 hect	1.95 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:2.33	1:1.95
3o	Total area put in use under different heads at the end of year	3.6514 hect	2.514 hect

3p	Production of ROM mineral during the last five year period as applicable	2018-19=29185 2019-20=35646	2018-19=15460 2019-20=35700
3q	General remarks of inspecting officers on method of mining etc.		

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 separate dumping is being done	
4b	Location of topsoil, OB and mineral reject dumps	south west corned of the ML area	in the south western part of the ML area	
4c	Number of dumps within lease area and outside of lease area	3 nos	3 nos	
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.	3 nos active dumps	3 nos active dumps	
4f	Number of dead dumps.	none	none / nil	
4g	Number of dumps established.	none	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	not proposed	nil	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	nil	

4j Number of settling ponds not proposed nil

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.	full extrcation of the mineral is proposed	full extcation yet	not done
5b	Area under backfilling of mined out area	not proposed	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed to be used in planttaion and when generated	being used in planttaion whenever generated	
5d	Total area fully reclaimed and rehabilitated	not proposed	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling not started yet as the full ectraction of the mineral not 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).	proposed	not submitted	
6b	Area available for rehabilitation (ha) .	not proposed	nil	

6c	afforestation done (ha).	2.00 hect	1.20 hect	
6d	No. of saplings planted during the year	360 nos	150*-200 nos	
6e	Cumulative no .of plants	500 nos	150-200 nos	
6f	Any other method of rehabilitation	not proposed	nil	
6g	Cost incurred on watch and care during the year	not mentioned	nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			full extraction of the mineral not done yet

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 being done in the ML area before dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual method proposed	manual method adopted	
7c	Different grade of mineral sorted out at mines.	not propose	nil	
7d	Any beneficiation process at mines .	not proposed	nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	not beneficiatiopn process proposed
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	as and when generated top soil is being used in plantation	
8b	Concurrent use or storage of topsoil	proposed for use in planttaion	in plantation top soil is being used as and when generated	
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	not proposed	not done yet as the full extraction of minerals not done yet	
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)	proposed	as per approved MP	

8g	Survival rate	90-95 %	60-65 %	
8h	Water sprinkling on roads to control airborne dust	proposed	used water tanker for water spreay	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	furnished	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	submitted	furnished	
9d	Scrutiny of Annual return on afforestation	submitted	furnished	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	furnished	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	furnished	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	furnished
9h	Scrutiny of Annual return on fixed assets	furnished	furnished
9k	Scrutiny of Annual return on mining machineries	furnished	furnished

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

Date :**(DEEPAK SHARMA)**

Indian Bureau of Mines