

**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 : 29-JUN-21
- (v) Prev.inspection date : 08-FEB-20

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	9 BOREHOLES & 10 TRENCHES WERE PROPOSED	9 DTH BOREHOLES & 10 TRENCHES WERE DONE	
1b	Exploration over lease area for geological axis 1 or 2	IT WAS PROPOSED TO EXPLORE THE ENTIER AREA IN TO G1 LEVEL	ENTIER MINERALISED AREA EXPLORE UP TO G1 LEVEL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	107000 INR SPENT ON EXPLORTAION AND CHEMICAL ANALYSIS	
1d	Balance area to be explored to bring Geological axis in 1 or 2	IT WAS PROPOSED TO BRING ENTIER MINERALISED AREA UPTO G1 LEVEL	ENTIER MINERALISED AREA EXPLORED UPTO G1 LEVEL	
1e	Balance reserve as on 01/04/20	AS ON 01.04.2014 122-125523 222-39517 333-455093	AS ON 01.04.2020 122-19763 222-39517 333-455093	
1f	General remarks of inspecting officers on geology, exploration etc			BAUXITE DEPOSIT OF THE ML AREA BELONGS TO MAHAKAUSHAL BELT RESULTANT OF RESIDUAL LEACHING PROCESS, FINE TO MEDIUM GRAIN IN SIZE MIXUTRE OF DIFFERENT GRADES SUCH AS CHEMICAL, CEMENT & REFRACTORY GRADE

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	CENTRAL SOUTH EAST PORTION OF THE ML AREA IN THE PIT NO C	DEVELOPMENT WORKING WAS CARRIED OUT IN THE CENTRAL SOUT EAST PART OF THE ML AREA IN THE PIT -C	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	PROPOSED	AS PER PROPOSAL TOP SOIL BENCH 1-1.5 METER, MINERAL BENCH 3-4 METER	
2c	Stripping ratio or ore to OB ratio	1:2.33	1:2.00	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	35618 m3	30500 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			DEVELOPMENT WORK DONE AS PER THE PRPOSAL

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE PIT PIT-C	ONE PIT, PIT-C	
3b	Quantity of ROM mineral production proposed	37248 TONNES	35700 TONNES	
3c	Recovery of sailable/usable mineral from ROM production	APROX 30 %	APROX 28-30 %	
3d	Quantity of mineral reject generation	NIL	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL ONLY MURUM GENERATED AS MINERAL REJECTS
3f	Quantity of sub grade mineral generation.	NIL-0	NIL-0
3g	Grade of sub grade mineral generation	NIL-0	NIL-0
3h	Manual / Mechanised method adopted for segregating from ROM	MANUAL METHOD PROPOSED FOR SEGRAGATION	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	NIL
3k	Provision of mining machineries in mineral benches	NOT PROPOSED	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	PROPOSED MINERAL BENCH IS 3 METER	HEIGHT OF MINERAL BENCH IS 3-4 METERS AS PER THE PROPOSAL
3m	Total area covered under excavation/pits	3.54 HECT	3.50 HECT
3n	Ore to OB ratio for the pit/mine during the year.	1:2.33	1:2.00
3o	Total area put in use under different heads at the end of year	0.35 HECT	0.25 HECT

3p	Production of ROM mineral during the last five year period as applicable	2018-19=29185 2019-20=35646 2020-21=37248	2018-19=45500 2019-20=35700 2020-21-AR NOT SUBMITTED	
3q	General remarks of inspecting officers on method of mining etc.			MANUAL METHO DOF MINING ADOPTED IN THE MINE

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 OF TOP SOIL & MINERAL REJECTS ARE BEING DONE	
4b	Location of topsoil, OB and mineral reject dumps	IN THE SOUTH WEST PART OF THE ML AREA	IN THE SOUTH WEST PART OF THE ML AREA DUMPING IS BEING DONE FOR TOP SOIL & REJECTS	
4c	Number of dumps within lease area and outside of lease area	5 NOS	5 NOS OF WASTE DUMPS	
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.	5 NOS	5 NOS WASTE DUMPS	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NOT PROPOSED	NONE	
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	NOT PROPOSED NEITHER PREPARED-NIL	

4j	Number of settling ponds	NOT PROPOSED	NIL	
4k	Specific comments of inspecting officer on waste dump management			TOTAL 5 NOS OF WASTE DUMPS ARE PRESENT IN THE ML AREA THEY ARE TOO SCATTERED

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 EXTRACTION OF MINERAL IS PROPOSED	FULL EXTRACTION HAS NOT BEEN DONE IN THE ML AREA	
5b	Area under backfilling of mined out area	NIL-0	NIL-0	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NO SOIL GENERATED IN THE RY	NO SOIL WAS GENERATED DURING THE RY	
5d	Total area fully reclaimed and rehabilitated	NOT PROPOSED	NIL-0	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			FULL EXTRACTION OF THE MINERAL WAS NOT DONE THEREFORE NO BACKFILLING DONE IN THE AREA

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	SUBMITTED	

6b	Area available for rehabilitation (ha) .	NOT PROPOSED	NIL-0	
6c	afforestation done (ha).	1.0 HECT	1.5 HECT	
6d	No. of saplings planted during the year	100 NOS	120-125 NOS	
6e	Cumulative no .of plants	500 NOS	350 NOS	
6f	Any other method of rehabilitation	NOT PROPOSED	NIL	
6g	Cost incurred on watch and care during the year	NOT MENTIONED	NOT MENTIONED	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			FULL EXTRACTION OF MINERAL NOT DONE AFFORSTATION DONE OVER VIRGIN AREA

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADE WISE SORTING AND DISPATCH PROPOSED	GRADE WISE SORTING DOEN BY MANUAL METHOD AND THAN DISPATCH IS BEING DONE	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL METHOD	MANUAL METHOD ADOPTED FOR GRADE WSIE SORTING	
7c	Different grade of mineral sorted out at mines.	NONE	NIL	
7d	Any beneficiation process at mines .	NOT PROPOSED	NIL	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	MANUAL METHOD OF GRADE WISE SORTING WAS DONE IN THE ML AREA
----	--	---

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	PROPOSED	AS AND WHEN GENERATED	
8b	Concurrent use or storage of topsoil	PROPOSED	IN PLANTTAION	
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	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NOT PROPOSED	AS THE FULL EXTRACTION OF MINERAL NOT DONE YET	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	PROPOSED	AS PER APPROVED MP	

8g	Survival rate	90-95 %	70-75 %	
8h	Water sprinkling on roads to control airborne dust	PROPOSED	BY USING WATER TANKER	
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	AR 2019-20 MR 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)	SUBMITTED	SUBMITTED	
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	COST OF PRODUCTION 510.10 INR, & EX MINE PRICE 700.00 INR	
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in .) 19559080	FOR MORE THAN ONE MINE
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