

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

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LAT.-15

Mine code : 75MPR47003

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 08-FEB-20
- (v) Prev.inspection date : 31-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TIKARIA (4.69HA)**
- (b) **Registration NO.** :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : TIKARIA
Taluka : MURWARA
Post office : NIWAR
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 27-SEP-99
- (h) Weekly day of rest :
2. Address for : SHRI POORAN LAL VISHWAKARMA
correspondance JALPADEVI WARD, KATNI (M.P.) 483501
3. (a) Lease Number :
- (b) Lease area : **4.69 hect.**
- (c) Period of lease : **50 years**
- (d) Date of Expiry : **07.03.2048**
4. Mineral worked : BAUXITE Associated
FIRECLAY Associated
LATERITE Main

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	:	Mining Scheme rule 12 MCDR1988	06-APR-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-AUG-11
		Mining Scheme rule 12 MCDR1988	12-MAR-14
		MP modif under 17(3) MCR 2016	05-NOV-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	in the year 2018-19 and 2019-20 5 boreholes were proposed to drill	exploration was not carried out as per proposal	voilation issued for the deviation
1b	Exploration over lease area for geological axis 1 or 2	lease are ais explored upto G2 level	lease area explored upto G2 level, 4.69 hect needs to explored upto G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not mentioned	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	area explored upto G2 level	4.69 hect needs to explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2018 122-174505 222-131265	as on 01.04.2019 122-81135 222-131265	units are in tonnes
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to mahakaushal group of rocks

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to work in the south eastern pat of the lease area in pit C	Workign in the year 2019-20 was in the said location, deviation in the maintanance of 7.5 meter barrier zone	voilation issued for the deviations
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	Separate benches in soil and mineral is maintained	

2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	working was proposed in the mineral benches only therefore no top soil generated during the year	workign was done in the mineral bench only	
2e	Quantity of overburden generation in m3	No OB generated	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			workign was in the said location and proposed in the Pit-C, in the mineral benches

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit-C	
3b	Quantity of ROM mineral production proposed	51087 tonnes	43100 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	55 %	55-60%	
3d	Quantity of mineral reject generation	No Mineral reject proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	

3g	Grade of sub grade mineral generation	Not Proposed	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Method proposed	Manual method adopted hand picking
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	only use of jack hammer is in used
3k	Provision of mining machineries in mineral benches	Not Proposed	manual method adopted for mining in benches for transportation trucks are used
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	suitable as per approved mining plan
3m	Total area covered under excavation/pits	3.615 hect	2.3650 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0 working was in the mineral benches only no OB and Soil generated
3o	Total area put in use under different heads at the end of year	4.081 hect	2.3650 hect

3p	Production of ROM mineral during the last five year period as applicable	2019-20=51807 tonnes 2018-19=15032 tonnes 2017-18=48162 tonnes 2016-17=46431 tonnes 2015-16=54116 tonnes	2019-20=43100 2018-19=0.00 2017-18=70.00 2016-17=not submitted online 2015-16= not submitted online	
3q	General remarks of inspecting officers on method of mining etc.			manual method of mining is being done in the mine, hand sorting is adopted for segregation

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	separate dumping is being done in the mine for soil and OB separatly	
4b	Location of topsoil, OB and mineral reject dumps	two dumps in the north side of the lease area and 1 in the central east side of the lease area	two dumps are situated in the north side of the lease area and 1 dump situated in thecentral part of the ML near Pit no b	
4c	Number of dumps within lease area and outside of lease area	three	three dumps 2-in the noth side, 1- central side	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within the UPL	within the UPL	
4e	Number of active and alive dumps.	three active dumps	three active dumps	
4f	Number of dead dumps.	Not Proposed	Nil	
4g	Number of dumps established.	not proposed	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	
4k	Specific comments of inspecting officer on waste dump management			three dumps are present in the ML area, two OB dump and 1 soil dump

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 proposed	full extraction of mineral under process	
5b	Area under backfilling of mined out area	not proposed	no area fully excavated and mature enough for backfilling	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	not proposed	in the year 2019-20 soil was not proposed to be generate	
5d	Total area fully reclaimed and rehabilitated	not propose	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			no area is fully excavated and mature enough for backfilling and reclamation

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	voilation was issued
6b	Area available for rehabilitation (ha) .	not proposed	no area is mature enough for the activity	
6c	afforestation done (ha) .	not proposed	nil	
6d	No. of saplings planted during the year	not proposed	nil	
6e	Cumulative no .of plants	500 nos	100 nos aprox	
6f	Any other method of rehabilitation	not proposed	nil	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise manual sorting proposed	grade wise manual sorting adopted	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual method adopted	
7c	Different grade of mineral sorted out at mines.	not proposed	nil	
7d	Any beneficiation process at mines .	not proposed	nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	manual method for grade wise sorting adopted
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	not proposed	in the year working was proposed in the mineral benches only no top soil generated	
8b	Concurrent use or storage of topsoil	not proposed	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate removal being done for waste and OB	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per approved mining plan	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	
8g	Survival rate	not proposed	planttaion for the year 2019-20 was not proposed	
8h	Water sprinkling on roads to control airborne dust	proposed	with the use of water tanker	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	needs improvements
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	AR submitted 2020-21 MR submitted upto Oct 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	Mining Engineer in charge RAMANAND Geologist in charge VIVEKANAND MISHRA	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 2.565 2.565 (iii) Reclaimed/Rehabilitated 0.000 0.200 0.200 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.056 0.056 (vi) Other Purpose (GREEN BELT) 0.000 0.090 0.090 (vii) Work done und
9d	Scrutiny of Annual return on afforestation	furnished	nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	Grades (% of Al ₂ O ₃ content) Average Grade Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in ? Per Tonne) (a) Below 40% Al ₂ O ₃ 14892.060 0.000 0.000 14892.060 0.00 (b) 40% to below 45% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (c) 45% to below 50% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (d) 50% to below 55% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (e) 55% to below 60% Al ₂ O ₃ 0.000 0.000 0.000 0.000 0.00 (f) 60% Al
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9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnnished	Production and Stocks of ROM ore at Mine-head (BAUXITE) Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 43100.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	Ex mine Price 700 INR per Tonnes cost of production 521.04 INR per tonnes
9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets 19559080 INR for adjacent ML also
9k	Scrutiny of Annual return on mining machineries	furnished	Nil as b category mine

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