

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KTN/BX-33

Mine code : 07MPR47001

- (i) Name of the Inspecting : **NQ06**) **P.NAHAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Shankar Lal Vishwakarma, Shri Arun Shukla, Superwi
Official with
Designation
- (iv) Date of Inspection : 31-MAY-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ISMALIA (4.79 HECT,)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : IMALIA
Taluka : KATNI
Post office : KATNI
Pin Code : 483501
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 31-DEC-59
- (h) Weekly day of rest : WED
2. Address for : SHANKAR LAL VISHWAKARMA
correspondance : MINE OWNER
JALPA DEVI WARD, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1983
(b) Lease area : 4.79
(c) Period of lease : 20
(d) Date of Expiry : 24-APR-20
4. Mineral worked : LATERITE Associated
BAUXITE Main

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	:	Renewal under rule 22 MCR1960	18-APR-00
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	18-APR-00
		Mining Scheme rule 12 MCDR1988	29-AUG-08
		Renewal under rule 24 MCR1960	19-APR-10
		Mining Scheme rule 12 MCDR1988	16-JAN-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Any exploration not proposed during the year.	Not done.	Mine is closed due to want of EC.Fresh exploration proposals submitted in the Draft RMP.
1b	Exploration over lease area for geological axis 1 or 2	G1 and G2.	G1	----
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable.	Not applicable.	----
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 2.0ha under G1.	Nil.	----
1e	Balance reserve as on 01/04/20	----	121-1,44,156T 122-20,349T	----
1f	General remarks of inspecting officers on geology, exploration etc	----	Bauxite of the area is derived from Vindhyan Group of rocks, and resting over the Vindhyan Formations.	Fresh mining proposals have given.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Near Western boundary and pit bottom.	No further development done due to want of EC.	Bottom of the pit was waterlogged hence depthwise implementation of development proposals could not be ascertained.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil. OB-4 benches each having height of 3m and ore One bench having the height of 3m .	No further development noticed.	As on date of inspection the mine was closed for want of EC.
2c	Stripping ratio or ore to OB ratio	1:0.71	Not noticed as the mine was closed due to want of EC.	----
2d	Quantity of topsoil generation in m3	Nil	Nil	Top soil not exist at proposed location.
2e	Quantity of overburden generation in m3	14-15-17580m3 15-16-16106m3 16-17-3915m3 17-18-2772m3 18-19-3135m3	14-15-9840m3 15-16-8595m3 16-17-1190m3 17-18-Nil 18-19-Nil	----
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	It is a Pocket Deposit formed by Residual Concentration process of Vindhyan Sand Stone. Seperate benches in Ore and OB were proposed but as on date of inspection the mining operation was temporarily discontinued due to want of EC. Present inspection was done in connection with submission of RMP.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit.	One Pit.	----

3b	Quantity of ROM mineral production proposed	14-15-7245 T. 15-16-5707T 16-17-8221T 18-19-6584T	14-15-7000 T. 15-16-3500T 16-17-2500T 18-19-NilT	----
3c	Recovery of sailable/usable mineral from ROM production	50%	50%	----
3d	Quantity of mineral reject generation	Not anticiapted.	Nil.	----
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	----
3f	Quantity of sub grade mineral generation.	Not anticiapted.	Nil.	----
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	-----
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Not noticed.	----
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Not applicable.	----
3j	Provision of drilling and blasting in mineral benches	Not proposed.	Not applicable.	----
3k	Provision of mining machineris in mineral benches	Not proposed.	Not proposed.	----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Yes.	----

3m	Total area covered under excavation/pits	2.805Ha	2.55Ha (till date of inspection.)	----
3n	Ore to OB ratio for the pit/mine during the year.	Pl. refer para 2(c).	Pl. refer para 2(c).	----
3o	Total area put in use under different heads at the end of year	3.9286Ha (Till end of proposal period.)	3.501Ha (Approx. Till date of inspection.)	----
3p	Production of ROM mineral during the last five year period as applicable	14-15-7245 T. 15-16-5707T 16-17-8221T 18-19-6584T	14-15-7000 T. 15-16-3500T 16-17-2500T 17-18-Nil 18-19-Nil	----
3q	General remarks of inspecting officers on method of mining etc.	----	----	Mining was proposed and done by Open cast B-Manual Category.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Backfilling.	Backfilling.	----
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	Near Western and Eastern boundary of the ML.	Old dumps contains pieces of bauxite.
4c	Number of dumps within lease area and outside of lease area	Not proposed.	4 major dumps within the lease area.	--Do--
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed.	Within UPL.	----
4e	Number of active and alive dumps.	Not proposed.	All dumps are active and alive.	----
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 applicable.	Not applicable.	----
4j	Number of settling ponds	Not proposed.	Nil	----
4k	Specific comments of inspecting officer on waste dump management	----	----	In the approved Scheme of Mining it was proposed that waste will be utilized for Reclamation and Rehabilitation of mined out pitwhcih is partailly implemented and dealyed due to want of EC.

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.	Full extraction.	----
5b	Area under backfilling of mined out area	0.43Ha	0.20Ha (approx.)	----
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Any Top soil generation is not anticipated at proposed location.	Nil.	----

5d	Total area fully reclaimed and rehabilitated	0.43Ha	Nil.	The mine is closed due to want of EC.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	About 0.20 Ha area at Northern boundary is backfilled.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	----	No.	Mine was closed since long.
6b	Area available for rehabilitation (ha) .	0.43Ha	Nil.	Comments are same as mentioned as 5d and 5e.
6c	afforestation done (ha).	0.045Ha in the proposal period.	0.11Ha Till date of inspection.	----
6d	No. of saplings planted during the year	10 p.a.	10Nos.	----
6e	Cumulative no .of plants	Not mentioned.	120Nos.	----
6f	Any other method of rehabilitation	None.	None.	----
6g	Cost incurred on watch and care during the year	Rs. 500/- p.a.	NA	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	0.43Ha	0.20Ha	----

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	0.20Ha.	----
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed.	Nil.	----
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Nil	Mine pit was water logged.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	Nil.	----
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Proposed 10 p.a.	10Nos. in current year.	----
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Nil.	----
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Nil	----

6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed.	Nil.	----
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	PMCP proposals not implemented due to want of EC.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise Sorting.	Not noticed as mine was closed.	----
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting.	Not noticed as mine was closed.	----
7c	Different grade of mineral sorted out at mines.	Metal and Cement grade.	Metal and Cement grade.	As informed by Lessee.
7d	Any beneficiation process at mines .	Not proposed.	Nil.	----
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	Metal grade bauxite is sold after sorting and Cement grade directly as ROM.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not anticipated.	Nil.	----
8b	Concurrent use or storage of topsoil	Not proposed.	Not applicable.	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	Nil.	----
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling of mined out pit.	Partially implemented.	Mining operation is temporarily discontinued due to want of EC.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of mined out pit and barrier zone.	Backfilling of mined out pit and barrier zone.	--Do--
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	----	----	More than 120 trees have grown in the lease area.
8g	Survival rate	80%	80%	----
8h	Water sprinkling on roads to control airborne dust	Proposed.	Not done. Mining operation was discontinued.	----
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	----	Efforts are being made to improve aesthetic beauty by dense afforestation at eastern and southern boundary.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR-17-18 (till date of inspection) MR- Apr.2019 (till date of inspection)	----	----
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Shri Ramanand. Geologist-Shri Vivekanand Mishra	Geologist-Shri Vivekanand Mishra.	Mine is closed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under current working- 2.550Ha Area covered under waste disposal- 0.672ha Area occupied by road- 0.018Ha Green belt- 0.063Ha.	Area covered under current working-2.550Ha Area covered under waste disposal-0.20ha Area occupied by road- 0.018Ha Green belt-0.20Ha.	
9d	Scrutiny of Annual return on afforestation	Green belt- 0.063Ha	Agreed	----
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	24814.202 (<40% Al2O3) 2500T Cement Grade	1500-2000 both metal and Cement grade.	----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not mentioned.	Mine Closed.	----
9h	Scrutiny of Annual return on fixed assets	Nil	One Watchman Hut within the ML was noticed.	----

9k	Scrutiny of Annual return on mining machineries	Nil	Nil	----
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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 :

(P.NAHAR)

Indian Bureau of Mines