

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-62

Mine code : 38MPR35120

- (i) Name of the Inspecting : **G004**) **OM PRAKASH GOPAL**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mine owner shri R.K Agrawal
Official with
Designation
- (iv) Date of Inspection : 01-JUN-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMASTHAN (18 AC)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : RAMSTHAN
Taluka : RAGHURAJNAGAR
Post office : RAMSTHAN
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 31-JAN-74
- (h) Weekly day of rest : SUN
2. Address for : SHRI RAGHVENDRA KUMAR AGGRAWAL
correspondance P.O. JAITWARA,
DIST. SATNA (M.P.) 485221
3. (a) Lease Number : MPR2243
(b) Lease area : 7.28
(c) Period of lease : 30
(d) Date of Expiry : 30-JAN-24
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : RAGHVENDRA KUMAR AGGRAWAL
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : RAGHVENDRA KUMAR AGGRAWAL
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	30-OCT-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	02-MAY-13
		Renewal under rule 24 MCR1960	05-MAY-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	-
1b	Exploration over lease area for geological axis 1 or 2	Area has been explored under G1 level	NIL	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	-	-
1e	Balance reserve as on 01/04/20	-	Balance reserves as on 1/4/2019 -713488 tonnes (111)	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Upper grey limestone of Bhandar Group is exposed in working pit. Entire lease area is mineralised.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North eastern part of the lease area between grid 2723490N to 2723620N and 495650E to 495690E	Development done in same pit as per approved proposal. There is minor deviation in lateral and vertical movement due to grade issue.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench each in soil and rejet stone and two benches in Limestone	As per proposal. Minor deviation in lateral and vertical development due to grade issue.	-

2c	Stripping ratio or ore to OB ratio	1:0.26	1:1.51	Lateral advancement is in higher side and vertical development could not be achieved due to grade issue.
2d	Quantity of topsoil generation in m3	1300m3	2000m3	Lateral advancement is in higher side due to grade issue.
2e	Quantity of overburden generation in m3	10405m3	55000m3	Lateral advancement is in higher side due to grade issue.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Lateral development in higher side due to grade issue.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	-
3b	Quantity of ROM mineral production proposed	85050 tonnes (2018-19)	84000 tonnes (2018-19)	-
3c	Recovery of sailable/usable mineral from ROM production	90%	80%	Poor recovery due to dilution of high magnesia and high silica limestone
3d	Quantity of mineral reject generation	Not proposed	NIL	-
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	-	-

3f	Quantity of sub grade mineral generation.	Not proposed	NIL	-
3g	Grade of sub grade mineral generation	Not proposed	-	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	-	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	-	-
3j	Provision of drilling and blasting in mineral benches	Proposed	As per proposal	-
3k	Provision of mining machineries in mineral benches	DEployment of machenaries proposed	Mining Machenary deployed as per proposal	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB bench-1.5 m Mineral bench 6 m	As per proposal	-
3m	Total area covered under excavation/pits	3.2 ha	3.2 ha (approx)	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.26	1:1.51	-
3o	Total area put in use under different heads at the end of year	5.3215	4.26 ha (approx.)	-

3p	Production of ROM mineral during the last five year period as applicable	2014-15-58253 tonnes 2015-16-99900 tonnes 2016-17-94500 tonnes 2017-18-91800 tonnes 2018-19-85050 tonnes	2014-15-0 tonnes 2015-16-19970 tonnes 2016-17-0 tonnes 2017-18-91534 tonnes 2018-19-84000 tonnes	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	Mining by opencast mechnised method as proposed in approved Mining Plan.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generation of 1300 m3 soil and 10405m3 of OB/waste envisaged. It was proposed to utilise soil for bund making and sale 8740m3 of OB/waste as building material and stacking of remaining 2914m3.	As per proposal	-

4b	Location of topsoil, OB and mineral reject dumps	Stacking of soil proposed along southern lease boundary between grid 495710 E 495780 E. OB/waste dumping proposed near eastern lease boundary between Grid 495720E to 495780E and 2723460N to 2723510N	Dumping not done at proposed location.	For site deviation V/L and S/C notice has already been issued based on previous inspection.
4c	Number of dumps within lease area and outside of lease area	Top soil: one (bund); OB/waste :one	Top soil bund:two; OB/waste:3	V/L and show cause notice has already been issued based on previous inspection.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	-
4e	Number of active and alive dumps.	Top soil: one (bund); OB/waste :one	Top soil bund:two; OB/waste:3	-
4f	Number of dead dumps.	None	NIL	-
4g	Number of dumps established.	None	None	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	As per proposal	-
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	-	-
4j	Number of settling ponds	None	-	-
4k	Specific comments of inspecting officer on waste dump management	-	-	Generated OB not placed at proposed location. V/L already issued.

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.	Mineral still continued in depth	Mineral still continued in depth	-
5b	Area under backfilling of mined out area	NIL	NIL	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	-
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral still continued in depth. There is no proposal for backfilling.

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).	-	Not submitted	Mineral still continued in depth. There is no viod available for bacfilling and reclamation of mined out area.
6b	Area available for rehabilitation (ha) .	NIL	NIL	-
6c	afforestation done (ha) .	0.2 ha (bund)	20 saplings	-
6d	No. of saplings planted during the year	400	20	-
6e	Cumulative no .of plants	No proposal	-	-

6f	Any other method of rehabilitation	None	-	-
6g	Cost incurred on watch and care during the year	Not mentioned	-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No proposal	-	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	-	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	-	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	-	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	-	-

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	-	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	-	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	-	Air water noise monitoring being done.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Mineral still continued in depth. There is no mature area for bacfilling and reclamation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for sorting	-	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	-	-
7c	Different grade of mineral sorted out at mines.	No proposal	-	-
7d	Any beneficiation process at mines	No	No	-

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	ROM is saleable and no beneficiation required
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil will be removed and stacked seperately	Removed top soil utilised for making bund.	-
8b	Concurrent use or storage of topsoil	storage	Making of bund	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumps for OB	seperate dump	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	-	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	-	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	-	-

8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty maintained by plantation on SW side of lease area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR for 2018-19 submitted but AR not submitted. AR for 2017-18 susubmitted.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR not submitted	-	V/L and Show cause notice regarding appointment of Mining Engineer has already been issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR not submitted	-	-
9d	Scrutiny of Annual return on afforestation	AR not submitted	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR not submitted	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR not submitted	-	-

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR not submitted	-	-
9h	Scrutiny of Annual return on fixed assets	AR not submitted	-	-
9k	Scrutiny of Annual return on mining machineries	AR not submitted	-	-

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 :

(OM PRAKASH GOPAL)

Indian Bureau of Mines