

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-62

Mine code : 38MPR35120

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S P Singh Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 13-FEB-20
- (v) Prev.inspection date : 09-DEC-18

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 : 50
(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
MP review under 17(1) MCR 2016 04-JUL-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	it was propsoed to drill two borehole of 30 meter	two DTH borehole were drilled during the reporting year	
1b	Exploration over lease area for geological axis 1 or 2	area explore upto g1 level	area already explored upto g1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not furnished	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	area explored upto g1 level	area already explored upto g1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2015 111-1083698 122-253893 221-412642 222-130047	as on 01.04.2019 111-888194 122-253893 211-412642 222-130047	
1f	General remarks of inspecting officers on geology, exploration etc			Area already explored upto g1 level, ML area belongs to vindhyan super group of rocks of rohtas formation, limestone of the area grey in colour fine to medium grained

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	it was proposed to develop the area towards the north and east portion of the lease area	workign wasnot as per the proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	separate benches were maintained in the top soil and in the mineral benches soil benches are fo 1.5 meter thicknes and mineral benhces ranges from 6-8meter depending upon the working faces	
2c	Stripping ratio or ore to OB ratio	1:1.38	1:1.48	
2d	Quantity of topsoil generation in m3	2375 cu m	1200 cu m	
2e	Quantity of overburden generation in m3	53069 cu m	nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was not as per the proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	working was proposed in single pit	single pit was in working in the ML	
3b	Quantity of ROM mineral production proposed	99990 tonnes	3000 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90 %	as per approved mining plan	

3d	Quantity of mineral reject generation	Nil	Nil-0
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	Mechanised Method was Proposed	None
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	Proposed	as and when required on contract basis
3k	Provision of mining machineries in mineral benches	Proposed	Hemm used in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	as per approved mining plan suitable
3m	Total area covered under excavation/pits	5.40 hect	3.20 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:1.38	1:1.48

3o	Total area put in use under different heads at the end of year	5.46 hect	4.26 hect	
3p	Production of ROM mineral during the last five year period as applicable	2014-15=0 2015-16=19970 2016-17=0 2017-18=91534 2018-19=84000 2019-20=99990	2014-15=0 2015-16=19970 2016-17=0 2017-18=91534 2018-19=84000 2019-20=3000	
3q	General remarks of inspecting officers on method of mining etc.			mining opeations were slower than the proposal

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 was done for the soil and waste	
4b	Location of topsoil, OB and mineral reject dumps	in the north portion of the ML area	waste was dumped in the north part of the ML area and soil on the 7.5 meter barrier zone	
4c	Number of dumps within lease area and outside of lease area	one in the north portion	one waste dump in the north portion	
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.	one active dump	one active waste dump in the north portion of the ML area	
4f	Number of dead dumps.	Not Proposed	nil	
4g	Number of dumps established.	Not Prposed	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			waste dump was in the north part of the ML area

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 the mineral is yet proposed	Full extrcation under progress not finished	
5b	Area under backfilling of mined out area	Not Propsoed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	In plantation	Top soil is being used for plantation over the 7.5 meter barrier zone	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Full extrcation of Mineral still under progress yet to finish	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha).	2.65 hect	2.11 hct	
6d	No. of saplings planted during the year	100	50 nos over the barrier zone	
6e	Cumulative no .of plants	250 nos	150-180 no	
6f	Any other method of rehabilitation	Not Proposed	Nil	
6g	Cost incurred on watch and care during the year	Not Propsoed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Under progress

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM grade wise sorting propsoed	grade wise sorting is being done before dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	screening process used	
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	mechanical grade wise sorting was done before dispatch
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	top soil separately removed and used for plantation	
8b	Concurrent use or storage of topsoil	in plantation	in plantation over the barrier zone	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	as per proposal separate dumping for waste and inter bedding is being done	
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)	proposed	as per approved minign plan after full extrcation upto the UPD	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per the approved mining plan	

8g	Survival rate	95%	60-65 %	
8h	Water sprinkling on roads to control airborne dust	proposed	waster tanker is being used for the same	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements in terms of plantation

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR MR submitted online	AR and MR submitted online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Mining Engineer in charge S. P. Singh	

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 0.980 0.980 (ii) Covered under current (O/C) Workings 0.000 3.220 3.220 (iii) Reclaimed/Rehabilitated 0.000 0.260 0.260 (iv) Used for waste disposal 0.000 0.800 0.800 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.050 0.050 (vi) Other Purpose (Green belt) 0.000 0.382 0.382 (vii) Work done under
9d	Scrutiny of Annual return on afforestation	furnished	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	Ex-mine price (in . Per Tonne) -370 INR Cost Per Tonne (in .) 331.32 INR

9h	Scrutiny of Annual return on fixed assets	Not 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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines