

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-149

Mine code : 38MPR35198

- (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 : 14-FEB-20
- (v) Prev.inspection date : 12-OCT-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **REORA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : REORA
Taluka : MAIHAR
Post office : BACHWAI
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 :
2. Address for : SHRI GOPAL SHRAN SINGH
correspondance PUSPRAJ NAGAR,
DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR1203
(b) Lease area : 8.09
(c) Period of lease : 20
(d) Date of Expiry : 28-JUL-91
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : GOPAL SHRAN SINGH
PUSPRAJ NAGAR SATNA
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : GOPAL SHRAN SINGH
PUSPRAJ NAGAR SATNA
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Renewal under rule 24 MCR1960 13-FEB-13
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 01-MAR-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Exploration proposed in the year 2019-20	No exploration carried out during the year	
1b	Exploration over lease area for geological axis 1 or 2	exploration already done upto the G1 level	Potential mineralised area explored upto G1 level	
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	NIL	Area fully explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01/04/2016 111-1905424 122-414086	as on 01.04.2019 111-540643 122-414086	units are in tonnes
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to rohtas formation of vindhyan super group of rocks, light grey to drak grey in coloured, hard and compact in nature.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to develop the quarry towards east direction of the lease area	development as per given, working was towards the east direction	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in the Top Soil and in mineral bench	one bench in top soil and second bench is of limestone 6-8 meter
2c	Stripping ratio or ore to OB ratio	1:0.40	1:0.60 approx
2d	Quantity of topsoil generation in m3	55500 cu m	50000 cu m
2e	Quantity of overburden generation in m3	23400 cu m	140000 cu m
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one single pit	one single pit	
3b	Quantity of ROM mineral production proposed	494910 tonnes	401400 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	80%	75-80%	
3d	Quantity of mineral reject generation	not 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	mechanical mehod proposed	mechanical screensr and crusher used for segragation and sizing	
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 per approved mining plan	
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in benches for excavation and transportation of mineral	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed hight and width suitable	as per approved mining plan bench height and width suitable for proposed mining	
3m	Total area covered under excavation/pits	20.685	15.085	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.40	1:0.60 aprox	
3p	Production of ROM mineral during the last five year period as applicable	2016-17=494910 2017-18=494910 2018-19=494910 2019-20=494910	2016-17=113009 2017-18=171725 2018-19=451900 2019-20=401400	units are in tonnes

3q	General remarks of inspecting officers on method of mining etc.	opencast mechanised method of mining adopted, HEMM is being used in mineral benches.
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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	separate dumps located in the ML for Waste / OB and soil	
4b	Location of topsoil, OB and mineral reject dumps	waste dump proposed to be dumped in the northern part of the ML area and soil dumps proposed in the western part of the lease area	waste dump located in the northern part of the ML and soil dump located in the western part of the ML	
4c	Number of dumps within lease area and outside of lease area	two 1-waste soil	two 1-waste and 1-soil dumps located in the ML area	
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.	two active dumps	two 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.	proposed	100-150*1*2 garland drain maintained	

4i	Length of Retaining wall or garland drain all along dumps	proposed	100-150*1*2 meter garland drain	
4j	Number of settling ponds	not proposed	nil	
4k	Specific comments of inspecting officer on waste dump management			waste is being located in the ML area and used in backfilling of mined out area and the lease is going to expire within 2 yrs fully mined out area is being filled with waste and soil is spreaded over the backfilled area for plantation

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 proposed	partial area fully extracted	
5b	Area under backfilling of mined out area	2.2 hect	4.3 hect	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	top soil is being used in spreading over the backfilled area and for plantation	
5d	Total area fully reclaimed and rehabilitated	2.3 hect	4.3 hect	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	fully mined out area is being backfilled with waste generated and soil is being spreaded over the backfilled area for planttaion / afforestation
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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 issued
6b	Area available for rehabilitation (ha) .	2.5 hect	3.65 hect	
6c	afforestation done (ha).	3.5 hect	4.65 hect	
6d	No. of saplings planted during the year	250 nos	300-350 nos	
6e	Cumulative no .of plants	4500 nos	3000 nos	
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	rom dispatch proposed	rom dispatched to crushed for sizing in adjacent private land of ML holder	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method proposed	mechanical method adopted
7c	Different grade of mineral sorted out at mines.	proposed	screening is being done in the adjacent land of ML holder
7d	Any beneficiation process at mines	not proposed	only screenign and sizing is being done

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	soil is being used in plantation over the backfilled area	
8b	Concurrent use or storage of topsoil	proposed	soil used in plantation	
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	proposed	waste and OB is used for backfilling of the mine out area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal	
8g	Survival rate	80%	75-80%	
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

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	AR submitted upto 2020-21 MR submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Mining Engineer in charge MR. AZAD KUMAR JAIN Geologist in charge MR. ANIL KUMAR KUSHWAHA	

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 16.540 16.540 (iii) Reclaimed/Rehabilitated 0.000 4.300 4.300 (iv) Used for waste disposal 0.000 0.300 0.300 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.110 1.110 (vi) Other Purpose () 0.000 0.000 0.000 (vii) Work done under progress
9d	Scrutiny of Annual return on afforestation	furnished	furnished

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity) furnished	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 125570.000 475900.000 410903.000 190567.000 177.00
9f	Scrutiny of Annual return on ROM stock and/or graded ore furnished	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 313512.000 401400.000 239012.000 (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 177.00 cost of production 177.00

9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets (inr) 1400000
9k	Scrutiny of Annual return on mining machineries	furnished	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) AIR COMPRESSOR 48000.000 CUM/MN 1 Non Electrical Opencast BACK HOE 2100.000 CUM 3 Non Electrical Opencast TIPPER 12000.000 CUM 5 Non Electrical Opencast

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