

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LIMESTONE-358

Mine code : 38MPR35325

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06-MAR-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BANDHI & GHORWAI 129.802**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BANDHI GHORWAI
Taluka : MAIHAR
Post office : AJWAIN
Pin Code : 485772
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 15-JAN-16
- (h) Weekly day of rest :
2. Address for : G BLOCK, 1ST FLOOR, 3RD WING
correspondance : DHIRUBHAI AMBANI KNOWLEDGE CITY
KOPARKHAIRANE, NAVI MUMBAI 400710
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : RELIANCE CEMENT CO.PVT.LTD.
H-BLOCK 1ST FLOOR DAKC,
KOPARKHAIRANE THANE BELAPUR
RD MUMBAI (SUBURBAN)
MAHARASHTRA
Phone:02230383333
FAX :02230384399

6. Date of approval of Mining :
Plan/Scheme of Mining

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	G2- 20.2 ha to be explored in G1 category	G2- 20.2 ha to be explored in G1 category	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2- 20.2 ha	G2- 20.2 ha	
1e	Balance reserve as on 01/04/20	12.92 Ha	12.92	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of limestone in the lease area is stratigraphically controlled and is associated with Vindhyan super group in Rohtas limestone of Semri group.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North East of lease area	North East of lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	as per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.9	1:0.02	

2d	Quantity of topsoil generation in m3	3530	80	violation pointed out
2e	Quantity of overburden generation in m3	52950	801.68	violation pointed out
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The area belongs to the Kymore range which has elevation ranging from 500m to 700m above MSL. Limestone of the lease area belongs to Semri group of Vindhyan super group.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	500,000 tonnes	39944 tonnes	violation pointed out
3c	Recovery of sailable/usable mineral from ROM production	entire ROM is proposed to be sent to captive plant owned by the lessee	entire ROM is sent to captive plant owned by the lessee	
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NIL	NIL	

3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	no segregation done
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	not done
3j	Provision of drilling and blasting in mineral benches	yes	as per proposal
3k	Provision of mining machineries in mineral benches	yes	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	height is suitable for proposed method of mining .
3m	Total area covered under excavation/pits	10.764 Ha	0.9 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.9	1:0.02
3o	Total area put in use under different heads at the end of year	15.8 Ha	3.4 ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 500000 2016-17 500000 2017-18 500000 2018-19 500000 2019-20 500000	2015-16 1213.5 2016-17 23689 2017-18 0 2018-19 3163.01 2019-20 39944.19

3q General remarks of inspecting officers on method of mining etc.

The overall mine development and production was lagging and not as per the proposals of approved document. Hence violation under rule 11(1) of MCDR 2017 was issued.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	01 OB Dump at NE corner of lease	
4b	Location of topsoil, OB and mineral reject dumps	proposed	01 OB Dump at NE corner of lease	
4c	Number of dumps within lease area and outside of lease area	01 OB Dump at within lease area	01 OB Dump at within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	not proposed	150m of garland drain along dumps are there	
4i	Length of Retaining wall or garland drain all along dumps	nil	150m of garland drain along dumps are there	

4j	Number of settling ponds	01	01
4k	Specific comments of inspecting officer on waste dump management		

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 before starting backfilling	area not mined out to start backfilling	
5b	Area under backfilling of mined out area	Nil	Nil	Area not mined out for backfilling to be carried out
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be utilized for plantation	utilized for plantation	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			area not mined out to start backfilling process.

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).	yes	not submitted	violation pointed out

6b	Area available for rehabilitation (ha) .	not proposed	Nil
6c	afforestation done (ha).	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Number of trees planted during the year 600 nos within lease
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	As per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Area is not mined out to carryout backfilling

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatched to captive plant owned the lessee	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	no sorting proposed	Nil	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	not proposed	no beneficiation carried out.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mineral dispatched to captive plant owned the lessee

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to remove 3530 cubic meter of topsoil in the year 2019-20	In the year 2019-20 but only 80 cubic meter of topsoil is achieved.	violation pointed out
8b	Concurrent use or storage of topsoil	to be used in plantation	as per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	01 OB Dump at NE corner of lease	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	as per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	proposal is adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	Number of trees planted during the year = 600 nos	
8g	Survival rate	Nil	Survival rate in percentage =80%	
8h	Water sprinkling on roads to control airborne dust	proposed	carried out	

8i General remarks
of inspecting
officer on
aesthetic beauty
in and around
mines area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	monthly and Annual return have been submitted for the financial year 2019-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manageand Mining Engineer in charge Shri Deepak Gupta Geologist in charge Shri Sumant Dhanodkar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	nil	nil	violation pointed out
9d	Scrutiny of Annual return on afforestation	yes	Number of trees planted during the year 600 nos outside lease area Survival rate in percentage 80.00	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	Ex-mine price is Rs.179.65	

9h	Scrutiny of Annual return on fixed assets	yes	Value of Fixed Assets (in Rs) 21678797
9k	Scrutiny of Annual return on mining machineries	yes	BACK HOE 0.900 CUM 1 Non Electrical Opencast TIPPER 14.000 CUM 3 Non Electrical Opencast AIR COMPRESSOR 450.000 CUM/MN 1 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 1 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
MCDR17	Rule 11(1)	10-MAY-21			
MCDR17	Rule 26(2)	10-MAY-21			
MCDR17	Rule 45(7) (a)	10-MAY-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines