

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LIMESTONE-358

**Mine code :** 38MPR35325

- (i) Name of the Inspecting : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Akhilesh Singh Manager, Bharat Sahastrabuddhe Geologi  
Official with  
Designation
- (iv) Date of Inspection : 28-DEC-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	NO BACKLOG OF PREVIOUS YEAR	THERE WAS NO PROPOSAL OF EXPLORATION IN THE LAST YEAR	
1b	Exploration over lease area for geological axis 1 or 2	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL i.e. 107.662 HECT	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	NOT MENTIONED IN THE APPROVED MINING PLAN	
1d	Balance area to be explored to bring Geological axis in 1 or 2	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL	POTENTIAL MINERALISED AREA EXPLORED UPTO G1 LEVEL i.e. 107.662 HECT	
1e	Balance reserve as on 01/04/20	AS ON 01.04.2017 111-10.346 122-2.649 222-1.835	AS ON 01.04.2021 111-12.998 122-1.579 222-1.835	UNITS ARE IN MILLION TONNES
1f	General remarks of inspecting officers on geology, exploration etc			POTENTIAL MINERALISED AREA IS EXPLORED UPTO G1 LEVEL, LIMESTONE OF THE ML AREA IS OF VINDHYAN SUPER GROUP OF ROCKS IN THE SATNA DISTRICT

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	IT WAS PROPOSED TO DO DEVELOPMENT WORK IN PIT B	WORKIGN WAS IN THE PIT B AS PER THE PROPOSAL	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	PROPOSED	SEPARATE BENCHES OF TOP SOIL AND MINERAL BENCHES ARE AS PER PROPOSAL	

2c	Stripping ratio or ore to OB ratio	1:0.099	1:0.1	
2d	Quantity of topsoil generation in m3	3960 CUBIC METER	0 CUBIC METER	
2e	Quantity of overburden generation in m3	35640 CUBIC METER	0 CUBIC METER	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			WORKING WAS IN THE SAID LOCATION, OB AND TOP SOIL REMOVAL WAS NOT ACHIVED, FOR THE SAME DEVIATION MODIFICATION WAS PROPOSED BY THE ML HOLDER

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE PIT-B	ONE PIT -B	
3b	Quantity of ROM mineral production proposed	500000	25303.920	TONNES
3c	Recovery of sailable/usable mineral from ROM production	90%	90% ROM IS BEING SENT TO CAPTIVE CEMENT PLANT	
3d	Quantity of mineral reject generation	10000 CUBIC METER	8600 CUBIC METER	
3e	Grade of mineral rejects generation and threshold value declared.	BELOW THRESHOLD i.e.CaO-34%	BELOW THRESHOLD i.e.CaO- 34%	
3f	Quantity of sub grade mineral generation.	NOT PROPOSED	NO SUB GRADE MINERAL PRODUCED	

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3g	Grade of sub grade mineral generation	NOT PROPOSED	NO SUB GRADE MINERAL PRODUCED	
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANICAL METHOD ADOPTED	MECHANICAL METHOD ADOPTED i.e. SCREENERS INSTALLED IN THE PLANT	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NOT PROPOSED	NO OTHER STUDY PROPOSED NEITHER ADOPTED ONLY SCREENERS WERE USED FOR SEGRAGATION	
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 THE MINERAL BENCHES FOR EXCAVATION AND TRANSPORTAION OF MINERAL TO THE PLANT	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	SUITABLE	BENCHES IN TOP SOIL AND IN MINERAL ARE SUTABLE FOR OPENCAST MECHANISED MINING	
3m	Total area covered under excavation/pits	4.20 HECT	3.30 HECT	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.099	1:0.10	
3o	Total area put in use under different heads at the end of year	7.55 HECT	5.68 HECT	
3p	Production of ROM mineral during the last five year period as applicable	2017-18=500000 2018-19=500000 2019-20=500000 2020-21=500000	2017-18=0 2018-19=3163.01 2019-20=39944.19 2020-21=25303.92	UNITS ARE IN TONNES

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

OPENCAST  
MECHANISED METHOD  
OF MINING IS BEING  
USED FOR  
EXCAVATION OF  
MINERAL

### 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 DUMPING OF TOP SOIL AND OB IS BEING AS PER PROPOSAL	
4b	Location of topsoil, OB and mineral reject dumps	E472674-472869 TO N2665200-2665421	E472793-472812 TO N2665467-2665521	
4c	Number of dumps within lease area and outside of lease area	TWO DUMPS	TWO DUMPS LOCATED IN THE LEASE AREA 1-SOIL AND 1-OB	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WITHIN THE UPL	WITHIN THE UPL NEAR PIT-B	
4e	Number of active and alive dumps.	2-ACTIVE DUMPS	2-ACTIVE DUMPS	
4f	Number of dead dumps.	NOT PROPOSED	NOT APPLICABLE	
4g	Number of dumps established.	NOT PROPOSED	NOT APPLICABLE	
4h	Whether Retaining wall or garland drain all along dumps are there.	NOT PROPOSED	NOT APPLICABLE	
4i	Length of Retaining wall or garland drain all along dumps	NOT PROPOSED	NOT APPLICABLE	
4j	Number of settling ponds	ONE	ONE	

4k Specific comments of inspecting officer on waste dump management

MINE STARTED IN THE YEAR 2017

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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	FULL EXTRCATION OF MINERAL IS UNDER PROGRESS	
5b	Area under backfilling of mined out area	NOT PROPOSED	NOT APPLICABLE	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	PROPOSED	TOP SOIL IS BEING USED IN PLANTATION OVER BARRIER ZONE AND NON-MINERALISED AREA	
5d	Total area fully reclaimed and rehabilitated	NOT PROPOSED	NOT APPLICABLE	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			NOT BANCKFILLING PROPOSED AS THE ML STARTS WORKING IN THE YEAR 2017

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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	SUBMITTED	

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6b	Area available for rehabilitation (ha) .	NOT PROPOSED	NOT APPLICABLE
6c	afforestation done (ha).	2.50 HECT	2.36 HECT OVER THE NON-MINERALISED AREA
6d	No. of saplings planted during the year	600 NOS	600 NOS
6e	Cumulative no .of plants	1500 NOS	1200 NOS
6f	Any other method of rehabilitation	NOT PROPOSED	NOT APPLICABLE

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM DISPATCH PROPOSED	ROM IS BEING DISPATCHED TO CAPTIVE CEMENT PLANT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NOT PROPOSED	NOT APPLICABLE	
7c	Different grade of mineral sorted out at mines.	NOT PROPOSED	NOT APPLICABLE	
7d	Any beneficiation process at mines .	NOT PROPOSED	NOT APPLICABLE	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM IS BEING SENT TO CAPTIVE CEMENT PLANT

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Environment:

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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	PROPOSED	SOIL IS BEING REMOVED SEPARATELY	
8b	Concurrent use or storage of topsoil	PROPOSED	SOIL IS BEING USED IN PLANTTAION OVER NON-MINERALISED AREA	
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	NOT PROPOSED	NO AREA FULLY MATURE ENOUGH FOR BACKFILLING	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NOT PROPOSED	NO AREA IS FULLY MATURE ENOUGH FOR THE PROCESS	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	PROPOSED	AS PER APPROVED MINING PLAN AND PMCP	
8g	Survival rate	70%	80 % AS PER AR	
8h	Water sprinkling on roads to control airborne dust	PROPOSED	WATER TANKER IS BEING USED FOR THE PROCESS	
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 UPTO DEC 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	FURNISHED	Manager Shri Deepak Gupta Mining Engineer in charge Shri Deepak Gupta Geologist in charge Shri Basava Raju	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	FURNISHED	12. 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 0.900 0.900 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.150 0.150 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.700 0.700 (vi) Other Purpose (Garland Drain etc) 0.000 0.850 0.850 (vii) Work	
9d	Scrutiny of Annual return on afforestation	FURNISHED	Within lease area (b) Outside lease area (i) Number of trees planted during the year 600 0 (ii) Survival rate in percentage 80.00 0	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	FURNISHED	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( LIMESTONE )</p> <p>Grades Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Despatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in . Per Tonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 0.000 0.000 0.000 0.000 0.00</p> <p>(c) Chemical 0.000 0.000 0.000 0.000 0.00</p> <p>(d) BF 0.000 0.000 0.000 0.000 0.00</p> <p>(e) Cement 0.000 25303.920 25303.920 0.000 147.33</p>
9f	Scrutiny of Annual return on ROM stock and/or graded ore	FURNISHED	<p>Production and Stocks of ROM ore at Mine-head ( LIMESTONE )</p> <p>Category Opening stock (in tonne)</p> <p>Production (in tonne)</p> <p>Closing stock (in tonne)</p> <p>(a) Open Cast Workings 0.000 25303.920 0.000</p> <p>(b) Underground Workings 0.000 0.000 0.000</p> <p>(c) Dump Workings 0.000 0.000 0.000</p>

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	FURNISHED	EX MINE PRICE 147.33 COST OF PRODUCTION 211.49
9h	Scrutiny of Annual return on fixed assets	FURNISHED	Value of Fixed Assets (in .) 20453996 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)
9k	Scrutiny of Annual return on mining machineries	FURNISHED	machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) 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

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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 :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines