

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LST.355

**Mine code :** 38MPR35328

- (i) Name of the Inspecting : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Akhilesh Singh, Bharat Sahastabuddhe, Manish Kumar Mi  
Official with  
Designation
- (iv) Date of Inspection : 11-FEB-21
- (v) Prev.inspection date : 30-AUG-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SALAIYA 495.566HA.**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : SATNA  
Village : SALAIYA  
Taluka : MAIHAR  
Post office : AJWAIN  
Pin Code : 485772  
FAX No. : NA  
E-mail : NA  
Phone : NA
- (f) Police Station : BADERA
- (g) First opening date : 21-NOV-14
- (h) Weekly day of rest :
2. Address for :  
correspondance :
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 ORNATUS ENTERPRISE AND VENTURES  
G-BLOCK, 1ST.FLOOR, 3RD.  
WING, DHIRUBHAI AMBANI  
KNOWLEDGE CITY  
KOPARKHAIRANE, NAVI MUMBAI  
MUMBAI (SUBURBAN)  
MAHARASHTRA  
Phone:NA  
FAX :NA

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 06-APR-16  
Plan/Scheme of Mining MP modif under 17(3) MCR 2016 03-OCT-18

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12 boreholes to be drilled in teh reporting year 2019-20	12 boreholes have been drilled in teh reporting year 2019-20 and 11 borehles drilled in the year 2020-21	
1b	Exploration over lease area for geological axis 1 or 2	Exploration upto G1 level	entier area explore upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself its own exploration unit expenditure 6.00 lakhs	lessee himself its own exploratioin unit expenditure 5.50 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area explored upto G1 level	total area explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 03.10.2018 111-41809000 222-16325000	as on 01.04.2020 111-39540245 222- 16325000	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the area belongs to rhtas formation of vindhyan super group, limestone founds with patches of shales contains CaO %

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to do development work in between grid line N 266625 to N 266650 and E 475473 to E 475897	Actual work was in between grid lines N 266625 to N 266649 and E 475480 to E 475894	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil and OB- 1.5 mts( Height) and Mineral Bench 4.5 mts ( Block-1) and 6 mts in (Block-2)	Topsoil and OB- 1.5-2 mts( Height) and Mineral Bench 4.5-5 mts ( Block-1) and 6-7mts in (Block-2)	
2c	Stripping ratio or ore to OB ratio	1:0.044	1:0.054	
2d	Quantity of topsoil generation in m3	7990 cubic meter	3820 cubic meter	
2e	Quantity of overburden generation in m3	55929 cubic meter	34382.93 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development done as per proposal

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits	two pits	
3b	Quantity of ROM mineral production proposed	1980002	1075032.450	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Nil-0	Nil-0	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil-0	

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3f	Quantity of sub grade mineral generation.	Not Proposed	Nil-0
3g	Grade of sub grade mineral generation	Not Proposed	Nil-0
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method Proposed	Mechanical Method Adopted Screening is being done
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil-0
3j	Provision of drilling and blasting in mineral benches	Proposed	as per proposal drilling and blasting is being done in the mining lease
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Proposed benches suitable in OB and in Mineral
3m	Total area covered under excavation/pits	61.87 hect	32.48 hect
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.10	1:0.15
3o	Total area put in use under different heads at the end of year	74.40	39.59

3p	Production of ROM mineral during the last five year period as applicable	2016-17=1980000 2017-18=1980000 2018-19=1977621 2019-20=1980002	2016-17=835451.660 2017-18=1027820.360 2018-19=1193721.920 2019-20=1075032.450
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3q	General remarks of inspecting officers on method of mining etc.	HEMM is being used in mineral benches for transportaion and excavation of mineral
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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Separate dumping of OB	

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4b	Location of topsoil, OB and mineral reject dumps	OB Dump (D1) N-24 06' 35.8'' E-80 45' 21.9" to N-24 06' 42.5'' E-80 45' 32.9"  OB Dump (D2) N-24 06' 27.4'' E-80 45' 22.2" to N-24 06' 37.0'' E-80 45' 37.0"  Top Soil Dump N-24 06' 42.1'' E-80 45' 35.9" to N-24 06' 44.1'' E-80 45' 38.2"	OB Dump (D1) N-24 06' 38.3'' E-80 45' 26.6" to N-24 06' 42.2'' E-80 45' 32.7"  OB Dump (D2) N-24 06' 28.5'' E-80 45' 23.4"  To N-24 06' 36.5'' E-80 45' 35.6"  Top Soil Dump N-24 06' 42.2'' E-80 45' 35.9" to N-24 06' 44.0'' E-80 45' 38.7"
4c	Number of dumps within lease area and outside of lease area	three within lease area	three within lease area
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.	Three Active dumps	Three active dumps
4f	Number of dead dumps.	Not Proposed	Nil-0. No Dumps established yet
4g	Number of dumps established.	Not Proposed Nil-0	Nil-0

4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil-0	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil-0	
4j	Number of settling ponds	Not Proposed	Nil-0	
4k	Specific comments of inspecting officer on waste dump management			Three active dumps are in the lease area, out side the UPL

#### 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 extraction of the mineral is being done before backfilling the extracted area	
5b	Area under backfilling of mined out area	0.59 Hect	0.350 Hect	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Top Soil is being used in planttaion over the backfilled area	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			top soil is being used in plantation over backfilled and 7.5 meter barrier zones, full extraction of mineral proposed before bakcfilling

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 Progressive Mine Clousre Plan:
 

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Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Submitted	
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil-0	
6c	afforestation done (ha).	1.0 hect	1.4 hect	
6d	No. of saplings planted during the year	2000 nos	3500 nos	
6e	Cumulative no .of plants	10500 nos	18500 nos	
6f	Any other method of rehabilitation	Not Proposed	NA	
6g	Cost incurred on watch and care during the year	546000 INR	1016600 INR	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Proposed	as per proposal	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Proposed	As per proposal	

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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Proposed	as per proposal
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Proposed	As per proposal
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed	as per proposal
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Proposed	planttaion over waste land
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.	Fully extracted area is being backfilled with available waste / ob and plantation over the backfilling area is being done with using plantation
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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.	Mechanical method proposed	MEchanical method screening adopted	
7c	Different grade of mineral sorted out at mines.	Not Proposed	NA	
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being dispatched to the captive cement plant

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Separate removal of top soil and utilization planttaion is adopted	

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8b	Concurrent use or storage of topsoil	Proposed	in Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	as per proposal separate dumps of waste	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	as per proposal used in backfilling	
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	90%	80-90 %	
8h	Water sprinkling on roads to control airborne dust	proposed	water is being sprinkled by jet spray and water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Needs to improve

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted	AR and MR submitted online and timely as on date
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	Manager SHREE MANISH KUMAR MISHRA Mining Engineer in charge SHREE MANISH KUMAR MISHRA Geologist in charge PRIYAM JAIN
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 34.900 34.900 (iii) Reclaimed/Rehabilitated 0.000 1.350 1.350 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 2.500 2.500 (vi) Other Purpose (Bund drain Sedimentation pond) 0.000 0.680 0.680 (
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	Furnsihed	Furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	Ex mine price INR 163.35 Cost of Production INR 181.57
9h	Scrutiny of Annual return on fixed assets	Furnsihed	Value of Fixed Assets INR 125112320
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) BACK HOE 2.000 CUM 1 Non Electrical Opencast AIR COMPRESSOR 450.000 CUM/MN 1 Non Electrical Opencast WATER TANKER 18000.000 LITRE 1 Non Electrical Opencast TIPPER 14.000 CUM 10 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