

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

**MCDR inspection 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, Manish Kumar Mishra, Priyam Jain  
Official with  
Designation
- (iv) Date of Inspection : 01-OCT-19
- (v) Prev.inspection date : 12-MAR-19

**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	It was proposed to drill 12 boreholes	Drilling as per proposal, 12 proposed boreholes drilled in the reporting year	
1b	Exploration over lease area for geological axis 1 or 2	proposal of 12 boreholes were, proposed to upgrade G2 into G1	G1-362.15 G2 - 97.416	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	In house exploration	In house exploration done expenditure not mentioned	
1d	Balance area to be explored to bring Geological axis in 1 or 2	area already in G2 level of exploration	G2 - 97.416	
1e	Balance reserve as on 01/04/20	as on 30.06.2018 111-41.809 222-16.325	as on 30.09.2019 111-40.60 222-16.325	
1f	General remarks of inspecting officers on geology, exploration etc			limestone of the area is on vindhyan super group, rohtas limestone of semri group. avg thickness of soil in the lease area 1.5-2.0 m, limestone thickness is of 12-15 m, after that shale continued .

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	it was proposed to excavate the area in two block north and south block	excavation was operational in between grid lines 2666700 to 2666900 and 474800 to 475600 in north block, 2665900 to 2666500 and 475200 to 476200 in south block. Excavation in limit as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil and OB- 1- 1.5 mts( Height) and Mineral Bench 4.5 mts ( Block-N) and 6 mts in (Block-S)	Top Soil and OB 1.5 mts and Mineral Bench 5-5.5 m (block -N) and 6-6.5 mts (block-S)
2c	Stripping ratio or ore to OB ratio	1:0.10	1:0.15
2d	Quantity of topsoil generation in m3	7990 m3	3820m3
2e	Quantity of overburden generation in m3	55929 m3	34382.93 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	1261165 MT	339820.38 MT (up to August2019)	

3c	Recovery of sailable/usable mineral from ROM production	1260661.6 MT	1193721.92 MT
3d	Quantity of mineral reject generation	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed	as per proposal drilling and blasting process adopted
3k	Provision of mining machineries in mineral benches	Use of HEMM proposed	HEMM is being used in the mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposal suitable for mining method	height of benches in OB 1.5 m and 6-6.5 m in mineral bench suitable for mining method
3m	Total area covered under excavation/pits	50.32	49.50 approx

3n	Ore to OB ratio for the pit/mine during the year.	1:0.046	1:0.040
3o	Total area put in use under different heads at the end of year	39.88	39.59
3p	Production of ROM mineral during the last five year period as applicable	2016- 17=1980000 2017- 18=1980000 2018- 19=1977621	2016-17=835451 2017-18=1027820 2018-19=1193721
3q	General remarks of inspecting officers on method of mining etc.		

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	separate dumping for topsoil, OB proposed	separate dumping for topsoil, OB is being adopted	

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	3 dumps within	3 dumps within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the	Outside the UPL
4e	Number of active and alive dumps.	3 active dumps	3 active dumps
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.	garland drain and retaining wall proposed	garland drain and retaining wall prepared as per proposal	
4i	Length of Retaining wall or garland drain all along dumps	250 m	300 m aprox	
4j	Number of settling ponds	2	2	
4k	Specific comments of inspecting officer on waste dump management			generated ob is being used in backfilling and top soil is being used in 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 extratction proposed	full extratcion being done before backfilling	
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)	use of top soil is proposed to be used in plantation	top soil is being used in plantation	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilled area is being used for plantation

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	proposed to submit	Not submitted	
6b	Area available for rehabilitation (ha) .	Not proposed	NIL	
6c	afforestation done (ha).	1 hectare	1.4 hectare	
6d	No. of saplings planted during the year	2000	3000	
6e	Cumulative no .of plants	10500	12000 aprox	
6f	Any other method of rehabilitation	Not proposed	only backfilling and plantation process adopted	
6g	Cost incurred on watch and care during the year	546000	550000 aprox as per information provided	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not Proposed	plantation is being done on backfilled area	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not proposed	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	not proposed	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	NIL	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Proposed	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not Proposed	NIL	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			backfilled area is being reclaimed by means of plantation

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**Mineral Conservation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch is proposed	ROM is being dispatch to captive cement plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NIL
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		ROM is being dispatch to captive cement plant, segrargation, sorting, beneficiation proposed

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	as per proposal soil is being utilized for planttaion	
8b	Concurrent use or storage of topsoil	proposed	top soil is being used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	as per proposal separate dumps for OB	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB, wste rock is being used for backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal exctarted area is being backfilled	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not proposed	NIL	
8g	Survival rate	90%	70-80%	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			need to improve and maintain

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	MR adn AR sumitted timly in online portal	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	provided	information of ME, Geologist and Manager is provided in the AR ME - Manish Kumar Mishra Geologist - Priyam Jain Manager- Manish Kumar Mishra	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Provided	As per AR	
9d	Scrutiny of Annual return on afforestation	Provided	As per AR	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Provided	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Provided	As per AR	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Provided	165 Rs	
9h	Scrutiny of Annual return on fixed assets	Provided	Value of Fixed Assets (in .) 127915193 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation	ammount is for two contiguous mining lease
9k	Scrutiny of Annual return on mining machineries	Provided	As per AR	

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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
MCDR17	Rule 11(1)	22-OCT-19			
	Rule 26(1)	22-OCT-19			

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines