

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/CHT/LST-7

**Mine code :** 38RAJ09010

- (i) Name of the Inspecting : **G021** ) **DATA RAM GURJAR**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : SH. SOMNATH BANERJEE, MINE MANAGER  
Official with  
Designation
- (iv) Date of Inspection : 18-DEC-20
- (v) Prev.inspection date : 06-DEC-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SITARAMJI KA KHERA**
- (b) **Registration NO.** : **IBM/378/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : RAJASTHAN
- District : CHITTORGARH
- Village : Sitaramji Ka Khera
- Taluka : Nimbahera
- Post office : Mangrol
- Pin Code : 312620
- FAX No. : 07727006120
- E-mail : somnath.banerjee@nuvoco.in
- Phone : 09893497199
- (f) **Police Station** : Mangrol
- (g) **First opening date** : 21-MAY-15
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VILLAGE- SITA RAM JI KA KHERA  
DISTT- CHITTORGARH  
RAJASTHAN
3. (a) **Lease Number** : RAJ5429
- (b) **Lease area** : 602
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 07-JUL-43
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : LAFARGE INDIA PVT. LTD.  
 VILLAGE BHAVLIYA TAHSIL  
 NIMBAHERA DIST.  
 CHITTORGARH(RAJ.)  
 CHITTORGARH RAJASTHAN  
 Phone:  
 FAX :

Owner : Mr. Ujjwal Batria  
 Equinox Business Park  
 Towers-3 East Wing,4th  
 Floor,Bandra Kurla  
 Complex,LBS Road,Kurla  
 West,Mumbai MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone:  
 FAX : 02266306511

Agent : Sanjay Kumar Tyagi  
 Nuvoco Vistas Corp. Ltd,  
 Village - Bhawaliya, Tehsil  
 - Nimbahera,Chittorgarh  
 CHITTORGARH RAJASTHAN  
 Phone: 9685013131  
 FAX : 9685013131

Mining Engineer  
 Name : Rajesh Goyal,Full Time  
 Qualification : BE(Mining)  
 Appointment/ : 07-MAY-17  
 Termination date

Geologist  
 Name : Mrinmoy Chakraborty,Full Time  
 Qualification : M.Sc.(Applied Geology)  
 Appointment/ : 28-MAR-16 12-JAN-19  
 Termination date

Geologist  
 Name : Rajesh Singh,Full Time  
 Qualification : M. Tech in Applied Geology  
 Appointment/ : 01-FEB-19  
 Termination date

Manager  
 Name : SOMNATH BANERJEE  
 Qualification :  
 Appointment/ : 10-AUG-15  
 Termination date

## 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	During the year 2018-19 total 32 nos. of bore holes proposed (1600 mtrs)	2018-19 32 nos. of bore holes completed as per proposal (1600 mtrs.)	No backlog of year 2018-19.
1b	Exploration over lease area for geological axis 1 or 2	Year 2019-20: Exploratory drilling 2100m (42 Bore Holes) proposed to convert 123.5 hect. G2 & G3 level to G1 level.	Year 2019-20: Exploratory drilling 745m (15 Bore Holes)	During the year 2019-20 exploration was proposed by drilling of 32 bore holes( 1600m) but during this year drilling of 15 bore holes( 745m) has been carried out. It shows the shortfall in exploration drilling, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	2019-20: Exploration Agency- M/s Shreeram Gemicon Pvt. Expenditure- Not specified.	2019-20 - Exploration Agency- M/s DSS infra service Expenditures- Rs. 20.44 Lakh	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2018-19- & 2019-20 exploration was proposed over an area 398.97 hect. by 74 bore holes to convert from G2 & G3 level into G1 level.	During the year 2018-19 & 2019-20 exploration carried over an area 253.17 ha hect. by 47 bore holes (32 bore holes 2018-19 + 15 Bore Holes 2019-20) to convert from G2 & G3 level into G1 level.	Minearilsed area 398.97 hect.(G2 & G3 level exploration) , Out of that 253.17 hect. area covevered under G1 level during the year 2018-19 & 2019-20 and drilling is going on. However shortfall in exploration drilling during the year 2019-20, for that violation letter for Rule 11(1) of MCDR 2017 issued to the lessee vide letter dated 13.01.2021.

1e	Balance reserve as on 01/04/20	No proposal given in this regard.	Balance reserves & resources as on 01.04.2020 Reserves - 67.68 million tonnes, Resources - 31 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			During the year 2019-20 exploration was proposed by drilling of 32 bore holes( 1600m) but during this year drilling of 15 bore holes( 745m) has been carried out. It shows the shortfall in exploration drilling, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.

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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2019-20: Northing: 2733845 - 2734624.5 Easting: 467331 - 467824	2019-20: Northing: 2733858 - 2734560 Easting: 467403-467768	Mine development within proposed limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposal for separate benches for top soil and overburden, only mineral benches proposals.	As per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	2019-20 : 1:0.12	2019-20: 1:0.006	Nil

2d	Quantity of topsoil generation in m3	2019-20: 1500 m3	2019-20: 7995 m3	Nil
2e	Quantity of overburden generation in m3	2019-20 : 300000 tonnes	2019-20: 13645 tonnes	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development is satisfactory.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	2019-20: Limestone - 2400000 MT Sub-Grade - 200000 MT	2019-20: Limestone - 2162337.30 MT Sub-Grade - Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	2019-20 : 80000 MT	2019-20 : 62579 MT	Nil
3e	Grade of mineral rejects generation and threshold value declared.	CaO < 34%	CaO < 34%	Nil
3f	Quantity of sub grade mineral generation.	2019-20: 200000 MT	2019-20 : Nil	Nil
3g	Grade of sub grade mineral generation	CaO - 34 to 40%	No subgrade mineral generation.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed during 2019-20.	No beneficiation study carried out.	Nil
3j	Provision of drilling and blasting in mineral benches	The drilling of blast holes is being done by down the hole drill machines of 115 mm. diameter operated by compressed air. For blasting slurry cap sensitive explosives, ANFO and SME to be used	Drilling and blasting are done as per the proposal. ANFO is using for blasting.	Nil
3k	Provision of mining machineries in mineral benches	1. Drill machine 115 mm. dia - 3 2. Air Compressor 450 cfm - 3 3. Excavator 3.4 cum capacity - 3 4. Excavator 3.2 cum capacity - 1 5. Dumpers 33 T -10 6. Dumper 34 T - 7 7. Dozer - 2 8. Rock Breaker - 2 9. Water Tanker- 2	1. Drill machine 115 mm. dia - 3 2. Air Compressor 450 cfm - 3 3. Excavator 3.4 cum capacity - 3 4. Excavator 3.2 cum capacity - 1 5. Dumpers 33 T -10 6. Dumper 34 T - 7 7. Dozer - 2 8. Rock Breaker - 2 9. Water Tanker- 2	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Height of Bench proposed - 10 mts.	Height of Bench existing - 10 mts.	Nil
3m	Total area covered under excavation/pits	2019-20 : 28.76 ha	2019-20 : 28.36 ha	Nil

3n	Ore to OB ratio for the pit/mine during the year.	2019-20 : 1:0.12	2019-20: 1:0.12	Nil
3o	Total area put in use under different heads at the end of year	At the end of review of mining plan period i.e. 2022-23 total area will be used under different heads: 74.87 hect.	At the end of year 201-20 total area put ot use under different heads: 53.37 hect. (Including green belt area)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 2.15 million tonnes, 2016-17: 2.25 million tonnes, 2017-18: 2.6 million tonnes, 2018-19: 2.6 million tonnes, 2019-20: 2.6 million tonnes	2015-16: 1.53 million tonnes, 2016-17: 1.83 million tonnes, 2017-18: 2.298 million tonnes, 2018-19: 2.27 million tonnes, 2019-20: 2.162 million tonnes	Nil
3q	General remarks of inspecting officers on method of mining etc.			Method of mining is suitable to the type of deposit.

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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)	Yes, separate dumping proposal of waste & screen reject has been given.	As per proposal.	Nil

4b	Location of topsoil, OB and mineral reject dumps	One Waste dump & one subgrade dump are proposed in Central Northern Part of ther lease area betweeb block B & Block D. Screen reject dump proposed South Western Part of the lease area near boundary pillar F1.	As per proposal	Nil
4c	Number of dumps within lease area and outside of lease area	Waste dump: 02 Screen Reject dump: 02	Waste dump : 02 Reject dump: 02	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	Nil
4e	Number of active and alive dumps.	04	04	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No specific proposal given during the year 2019-20.	Garland drain along the dumps was observed.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No specific proposal given during the year 2019-20.	Garland drain along the dumps was observed.	Nil
4j	Number of settling ponds	1	1	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue was observed related to waste dump management.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No backfilling proposal during the year 2019-20.	Nil	Nil
5b	Area under backfilling of mined out area	No backfilling proposed	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	Topsoil handled during mining is simultaneously used for plantation.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal given for the year 2019-20.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling & reclamation proposed nor carried out.

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	It should be submitted up to 1 July for the previous financial year.	Submitted on time for the year 2019-20.	The proposal of plantation shown in the PMCP report are not matching with approved review of mining plan with PMCP (Approved on 26.03.2018), hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.01.2021.
6b	Area available for rehabilitation (ha) .	1.0 hect	1.0 hect.	Nil
6c	afforestation done (ha).	1.0 hect	1.0 hect	Nil
6d	No. of saplings planted during the year	2000 nos. within ML	1911 nos. Within ML & 3995 nos. outside ML	Nil
6e	Cumulative no .of plants	Not Specified	Cumulative - 34076 up to year 2019-20.	Nil

6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Not specifeid	Rs. 85.36 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 nos. within ML	1911 nos. Within ML & 3995 nos. outside ML	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 hect	1.0 hect	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring as per EC conditions.	Regular monitoring is being carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The proposal of plantation shown in the PMCP report are not matching with approved review of mining plan with PMCP (Approved on 26.03.2018), hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.01.2021.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Cement grade limestone feed to captive cement plant.	Cement grade limestone feed to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	Cement grade & subgrade	Cement grade	Nil
7d	Any beneficiation process at mines .	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue was observed related to mineral conservation.

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposal given	As per proposal	Nil
8b	Concurrent use or storage of topsoil	Plantation	Plantation	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal given	As per proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given for the year 2019-20.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal given for the year 2019-20.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2019-20 total 2000 nos. plantation was proposed over an area of 1 ha. within mining lease area.	During the year 2019-20 total 1911 nos. sapling planted over an area 1 ha area within mining lease area ML & 3995 nos. of sapling planted outside of ML area.	Nil
8g	Survival rate	Not specifeid	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Regularly during transportation of limestone.	Water sprinkling was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good in and around mine area.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual retrun submitted up to yera 2019-20. Monthly return submitted up to Dec. 2020.	Returns submitted on time.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr. Rajesh Kumar Goyal Geologist: Rajesh Singh Manager: Somnath Banerjee	Details are correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 28.36 ha. Waste Disposal: 4.3 ha Plant, Buildings, Road etc. : 7.36 ha. Others (Plantation, Stock): 13.53 ha.	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	1911 nos. Within ML & 3935 nos. outside ML	Seems to be correct	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: 62579 MT CaO<34% SiO2 >20%	Seems to be correct	Screen reject
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 112275.30 MT	Seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 208.01 production cost per tonne	Seems to be correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in ?) 241405603	Seems to be correct.	Nil

9k      Scrutiny of              BACK HOE (3.4 Seems to be correct.              Nil  
Annual return on m3) - 3 nos.  
mining              BACK HOE (3.2  
machineries        m3) - 1 no  
                         Dozer (200  
                         HP) - 2 nos.  
                         Dumper (33  
                         tonne) - 10  
                         nos.  
                         Dumper (34  
                         tonne) - 7  
                         nos.  
                         Drilling  
                         Machine - 3  
                         nos.  
                         Water Tanker -  
                         2 nos.  
                         Pumps - 4 nos.

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**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)	13-JAN-21			
MCDR17	Rule 26(2)	13-JAN-21			

**Date :**

(DATA RAM GURJAR)

Indian Bureau of Mines