

**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 : **K010**) **Kotriwal B.L.**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Somnath Banerjee, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 30-SEP-21
- (v) Prev.inspection date : 18-DEC-20

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 : VILLAGE- SITA RAM JI KA KHERA
correspondance : DISTT- CHITTORGARH
RAJASTHAN
3. (a) Lease Number : RAJ5429
- (b) Lease area : 602
- (c) Period of lease : 20
- (d) Date of Expiry : 07-JUL-13
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 2019-20, 42 bore holes (2100m) were proposed.	15bore holes(745m) drilled in the year 2019-20 and 28 boreholes (1330m) drilled in the year 2020-21.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal for reporting year 2020-21.	28 boreholes (1330m) drilled for the backlog of FY 2019-20.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for reporting year 2020-21.	M/s DSS infra service was used for completing the backlog of FY 2019-20. Expenditure-Rs 13 lakh.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	None	Entire potentially mineralized area 398.97ha. has been explored upto G1 Level.
1e	Balance reserve as on 01/04/20	As per approved document dated 26.03.2018, the position of reserve on 01.04.2019 was 72.26million tonnes.	Balance reserve as on 01.04.2021, 67.68 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue was observed related to geology & exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2020-21: Northing: 2733683 - 2734624.5 Easting: 467331 -467824	2020-21: Northing: 2733760- 2734567 Easting: 467325-467752	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There are no proposal for separate benches in top soil and overburden, Separate benches only in minerals have been proposed.	There are no existing benches in top soil and overburden, Separate benches only in minerals have been maintained as per proposals.	Nil
2c	Stripping ratio or ore to OB ratio	2020-21 1:0.12	2020-21 1:0.005	Nil
2d	Quantity of topsoil generation in m3	45000 m3 top soil was proposed during the year 2020-21.	2565 m3 top soil was generated during the year 2020-21.	Less topsoil generation due to no working in fresh area.
2e	Quantity of overburden generation in m3	300000 MT overburden was proposed during year 2020-21.	7299 MT overburden was generated during year 2020-21.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Development has been carried out as per proposal.	Development of mine pit is satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	Nil
3b	Quantity of ROM mineral production proposed	Year 2020-21: Limestone - 2400000 MT Sub-Grade - 200000 MT.	Year 2020-21: Limestone - 2279977.420 MT Sub-Grade - Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	Year 2020-21: Limestone - 2400000 MT	Year 2020-21: Limestone - 2213366.080	Nil
3d	Quantity of mineral reject generation	Year 2020-21: 80000 MT	Year 2020-21: 66611 MT	Nil

3e	Grade of mineral rejects generation and threshold value declared.	CaO < 34%	CaO < 34%	Nil
3f	Quantity of sub grade mineral generation.	200000 MT	No subgrade generated during the year 2020-21.	Nil
3g	Grade of sub grade mineral generation	CaO - 34 to 40% SiO ₂ - 16 to 18%	Not applicable as no subgrade generated during the year 2020-21	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 the year 2020-21.	No beneficiation study carried out during the year 2020-21.	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. Slurry cap sensitive explosives & ANFO is used 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	Yes, as per proposal	Nil
3m	Total area covered under excavation/pits	43.70 ha. area under excavation upto the year 2022-23 was proposed.	29.050ha area under excavation was utilised during the year 2020-21.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	1:0.005	Nil
3o	Total area put in use under different heads at the end of year	It was proposed that total 74.87 ha area put in use under different heads at the end of the plan period i.e. 2022-23.	At the end of the year 2020-21, total 55.24 ha used under different heads.	Nil

3p	Production of ROM mineral during the last five year period as applicable	2016-17: 2.25 million tonnes, 2017-18: 2.6 million tonnes, 2018-19: 2.6 million tonnes, 2019-20: 2.6 million tonnes 2020-21:2.6 million tonnes	2016-17: 1.83 million tonnes, 2017-18: 2.298 million tonnes, 2018-19: 2.27 million tonnes, 2019-20: 2.16 million tonnes 2020-21:2.28 million tonnes.	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast Mining Method was proposed.	Mechanised mining method is being used along with HEMM as per proposal.	Nil

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.	Maintained as per proposal.	Nil

4b	Location of topsoil, OB and mineral reject dumps	Waste Dump 1: Northing: 2733323 - 2733464 Easting: 467803 - 468117 Waste Dump 2: Northing: 2734741.9 - 2734831.9 Easting: 468564.30 - 468724.30 Reject Dump 1: Northing: 2733245 - 2733354 Easting: 467816 - 467957 Reject Dump 2: Northing: 2733197.1 - 2733307 Easting: 467299 - 467752	Waste Dump 1: Northing: 2733323 - 2733464 Easting: 467803 - 468117 Waste Dump 2: Northing: 2734742 - 2734819 Easting: 468550 - 468782. Reject Dump 1: Northing: 2733245 - 2733354 Easting: 467816 - 467957 Reject Dump 2: Northing: 2733258 - 2733347 Easting: 467526 - 467727	Nil
4c	Number of dumps within lease area and outside of lease area	Screen Reject -02 (within lease area) Waste Rock - 02 (within lease area)	Screen Reject -02 (within lease area) Waste Rock - 02 (within lease area)	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are made outside of UPL	All dumps are made outside of UPL	Nil
4e	Number of active and alive dumps.	04	04	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No proposal	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, no specific proposal given during the year 2020-21.	Garland drain along the dumps was observed.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Yes, no specific proposal given during the year 2020-21.	Garland drain along the dumps was observed.	Nil

4j	Number of settling ponds	01	01	Nil
4k	Specific comments of inspecting officer on waste dump management			During the year 2020-21, screen waste dump-01 between grid 610E to 740E and 75N to 175N has been created despite no proposal. Hence, violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 10.11.2021.

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.	No backfilling proposal during the year 2020-21.	None	Nil
5b	Area under backfilling of mined out area	No backfilling proposal during the year 2020-21.	None	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation	Topsoil handled during mining is simultaneously used for plantation.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal given for the year 2020-21	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfiling	No comment as no proposal of backfilling.	Nil

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2) of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2020-21 has been submitted timely.	Nil
6b	Area available for rehabilitation (ha) .	1.0 Ha.	1.0 Ha.	Nil
6c	afforestation done (ha).	1.0 Ha.	1.0 Ha.	During the year 2020-21, Plantation has not been carried out on proposed location, hence violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 10.11.2021.
6d	No. of saplings planted during the year	2000 nos	2065 nos	Nil
6e	Cumulative no .of plants	No specific proposal.	Cumulatively plantation till the year 2020-21 within lease area- 39771 number of saplings were planted.	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No specific proposal.	Rs. 29.43 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No proposal	None	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	1.0 Ha.	1.0 Ha.	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	1.0Ha	1.0Ha	During the year 2020-21,Plantation has not been carried out on proposed location,hence violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 10.11.2021.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0Ha	1.0Ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	2065 nos was planted	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Enviromental monitoring was proposed.	Enviromental monitoring work was carried out in core zone and buffer zone.	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	During the year 2020-21, Plantation has not been carried out on proposed location, hence violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 10.11.2021.
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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 & subgrade	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.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes, as per proposal	Nil

8b	Concurrent use or storage of topsoil	Utilisation of top soil for Plantation was proposed	Utilisation of top soil for Plantation was carried out as per proposal.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Maintained 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 2020-21.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal given for the year 2020-21.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2020-21, 2000 nos. over an area 1.0ha. was proposed	During the year 2020-21, 2000 nos. over an area 1.0ha. was planted	Nil
8g	Survival rate	Not specified	75% Survival rate of Plantation as per proposal.	Nil
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on haul roads was proposed.	Regular sprinkling of water on haul roads is being carried out.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty is satisfactory in and around mines 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	As per rule 45 of MCDR,2017 monthly and annual returns to be submitted.	Monthly returns upto October, 2021 and Annual returns upto the year 2020-21 have been submitted timely.	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 found to be correct	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 29.05 ha. Waste Disposal: 4.3 ha Plant, Buildings, Road etc. :7.36 ha. Others (Plantation,Stock): 14.53 ha.	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	2065 nos. Within ML & 3630 nos. outside ML	Seems to be correct	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: 66611MT CaO<34% SiO2 >25%	Details seems to be correct.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 112275.30 MT	Found to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Limestone used in captive cement plant. Ex mine price & Production Cost- 204.39 Rs /MT	Found to be correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Total value of Fixed Assets - Rs 281190716.	Found to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given in Annual Returns 2020-21.	Found to be correct.	Nil

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-NOV-21			

Date :

(Kotriwal B.L.)

Indian Bureau of Mines