

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-7

Mine code : 38RAJ09010

- (i) Name of the Inspecting : 01) Ajay kumar Jatolia
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Virtual Inspection
Official with
Designation
- (iv) Date of Inspection : 04-DEC-24
- (v) Prev.inspection date : 06-MAR-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 :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : +91 (0) 22 6630 6510
- E-mail : jayakumar.krishnaswamy@nuv
- Phone : +91 (0) 22 6769 2500
- (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 : M.C.Jain
M/S. A.S.D.CO.Pvt.ltd.
UDAIPUR RAJASTHAN
Phone: 2490754,2490463
FAX : 2493490

Agent : AJIT KUMAR CHIINGAWAT
18, BANK ROAD JANKUPURA
MANDSOUR(M.P.) CHITTORGARH
RAJASTHAN
Phone:
FAX :

Geologist

Name : A M. Khan,Full Time
Qualification : M.Sc. (Geology)
Appointment/ : 07-MAY-17
Termination date

Manager

Name : Jivabhai Sagar
Qualification : Diploma in Mining Engineering(with first
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	No backlog of previous year	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	05BHs with 250 meterage were proposed	05BHs with 250 meterage were carried out during the year 2023-24	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal	GEM Consultants & Rs. 422860	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	19.79 Ha. Area were proposed from G3 to G1.	19.79 Ha. Area were explored from G3 to G1 during the year 2023-24.	Now,entire mineralized area of 398.97 hectare has been explored under G1 level of exploration.
1e	Balance reserve as on 01/04/20	As per approved RMP dated 27/01/2023, the position of reserve and resource was 72.47 and 41.25 million tons respectively.	The position reserve and resource as on 01/04/2024, Reserve and Resources were 62.43 and 41.25 million tons respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			Now,entire mineralized area of 398.97 hectare has been explored under G1 level of exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northing: 2733759 - 2734863 Easting: 467276 - 467771	Northing: 2733760 - 2734812 Easting: 467284 - 467771	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposal for separate benches for top soil and overburden at present.	There are no existing benches for top soil and overburden at present	Nil
2c	Stripping ratio or ore to OB ratio	1:0.001	1:0.022	Nil
2d	Quantity of topsoil generation in m3	3188 m3	5934.74 m3	More topsoil generation due to working in removal of BC soil from the some acquired land.
2e	Quantity of overburden generation in m3	10000 Cum	23052.75 Cum	Overburden generation was higher side due to have encountered some waste patches with High-grade Limestone for mineral conservation.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine development work found to be satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	Nil
3b	Quantity of ROM mineral production proposed	ROM - 2600000 MT	ROM-2556854.00 MT	Nil
3c	Recovery of sailable/usable mineral from ROM production	99%	100%	Nil
3d	Quantity of mineral reject generation	26000	Nil	No mineral reject generated during the year.
3e	Grade of mineral rejects generation and threshold value declared.	CaO>34%	Nil	Nil

3f	Quantity of sub grade mineral generation.	No such proposal	Not applicable	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal.	Not applicable	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 proposal	None	Nil
3j	Provision of drilling and blasting in mineral benches	Proposed	Carried out as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Proposed	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	Height of Bench proposed - 10 mts.	Height of Bench existing - 5 to 9 mts.	Nil
3m	Total area covered under excavation/pits	2023-24: 37.30 Ha.	2023-24: 37.67 Ha.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.001	1:0.022	

3o	Total area put in use under different heads at the end of year	Total area put in use at the end of Year : 56.56 Ha.	Total area put in use at the end of Year : 59.33	It has been observed that waste dumps have been carried out outside the proposed location.Total area under dumps are 6.55 Ha. against the proposal of 3.18 Ha. at the end of the reporting year 2023-24.Hence, Violation letter under rule11(1) has been issued.
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 2600000 MT 2020-21: 2600000 MT 2021-22: 2600000 MT 2022-23: 2600000 MT 2023-24: 2600000 MT	2019-20: 2162337.3 MT, 2020-21:2279977.42 MT, 2021-22: 2560671.79 MT, 2022-23: 2597227.17MT, 2023-24: 2556854.0 MT	Nil
3q	General remarks of inspecting officers on method of mining etc.			It has been observed that waste dumps have been carried out outside the proposed location.Total area under dumps are 6.55 Ha. against the proposal of 3.18 Ha. at the end of the reporting year 2023-24.Hence, Violation letter under rule11(1) has been issued.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	It has been observed that waste dumps have been carried out outside the proposed location	Hence, Violation under rule 11(1) has been issued.
4b	Location of topsoil, OB and mineral reject dumps	(N2733418.649, E467804.5704), (N2733418.649, E467856.0988)	WD01(N2733399.65,E467777.53), (N2733376.417,E468085.83) WD04 (N2733289.98,E467971.26), (N2733323.61,E468167.51)	It has been observed that waste dumps have been carried out outside the proposed location.Total area under dumps are 6.55 Ha. against the proposal of 3.18 Ha. at the end of the reporting year 2023-24. Hence, Violation letter under rule 11(1) of MCDR 2017 has been issued.
4c	Number of dumps within lease area and outside of lease area	03 Dumps	04 Dumps	01 extra Dump have been created and also increased total Dump area against the proposed Dump Area. Hence, Violation under rule 11(1) have been issued.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	Nil
4e	Number of active and alive dumps.	03	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, proposed	1. 796 m proposed Retaining wall during the year 2023-24 has not been done on proposed location. 2. 796 m proposed Garland drain during the year 2023-24 has not been done on proposed location. Hence, violation under rule 11(1) of MCDR 2017 have been issued.	

4i	Length of Retaining wall or garland drain all along dumps	Garland Drain : 796m, Retaining Wall : 796m	Garland Drain : Nil, Retaining Wall : Nil	1. 796 m proposed Retaining wall during the year 2023-24 has not been done on proposed location. 2. 796 m proposed Garland drain during the year 2023-24 has not been done on proposed location. Hence, violation under rule 11(1) of MCDR 2017 have been issued.
4j	Number of settling ponds	01	01	Nil
4k	Specific comments of inspecting officer on waste dump management			1. 796 m proposed Retaining wall during the year 2023-24 has not been done on proposed location. 2. 796 m proposed Garland drain during the year 2023-24 has not been done on proposed location. Hence, violation under rule 11(1) of MCDR 2017 have been issued.

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 proposal	None. No area has matured for backfilling	Nil
5b	Area under backfilling of mined out area	No proposal	Not applicable	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	As per proposal	Nil

5d	Total area fully reclaimed and rehabilitated	No proposal given for the year 2023-24.	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal for backfilling during the year 2023-24.

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).	Yes, it should be submitted up to 1st July time. for the previous financial year.	PMCP report for the year 2023-24 submitted on	Nil
6b	Area available for rehabilitation (ha) .	No proposal	None	Nil
6c	afforestation done (ha).	1.0	1.0	Nil
6d	No. of saplings planted during the year	2000 Nos	2735 Nos	Nil
6e	Cumulative no .of plants	No specific proposal	Total - 53270 nos	Nil
6f	Any other method of rehabilitation	No proposal	Not applicable	Nil
6g	Cost incurred on watch and care during the year	No specific proposal	Rs. 25.45 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	Not applicable	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No such proposal	Not applicable	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal during the year 2023-24.	Not applicable	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Not applicable	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Not applicable	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Not applicable	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No such proposal	Not applicable	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, proposed	Compliance of environmental monitoring is being carried out	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliances is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM: 2600000.00 MT	ROM: 2556854.00MT	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	None	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 observed related to minerals conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seprate removal and utilisation of topsoil has been proposed	It has been carried out as per proposal.	Nil
8b	Concurrent use or storage of topsoil	Proposed	As per proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	As per proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Bunds for rain water, road making	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Area not matured for the purpose of reclamation and rehabilitation .	Not applicable	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 Nos of saplings over 1.0 Ha. area	2735 Nos of saplings over 1.0 Ha. area Cumulative - 53270Nos	Nil
8g	Survival rate	No specific proposal	75%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on roads to control airborne dust has been carried out.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is satisfactory in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR 2017, monthly & annual return is to be submitted.	Annual and Monthly returns are submitted on time.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr. Jivabhai Sagar Geologist: Mrs. Priyam Jain Manager: Mr. Jivabhai Sagar	Found to be correct.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 36.60 ha. Waste Disposal: 0.50ha Plant, Buildings, Road etc. : 18.79 ha. Others (Plantation, Stock): 17.94 ha.	Seems to be not correct.	In Part-I: Actual waste disposal area is 6.5 Ha. whereas it has been reported as 0.5 Ha. under the head of waste disposal in item 12. Hence, SCN under rule 45(7) has been issued.
9d	Scrutiny of Annual return on afforestation	2735 nos. Within ML & 1239 nos. outside ML Total - 3974 nos	Found to be ok	Reported in AR 2023-24
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject has been generated during the reporting year	Seems to be correct.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone stock: 148608.920 MT	Found to be in order	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	227.95 Rs/tonne	Found to be in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed Asset : 360670182	Found to be in order.	Nil

9k	Scrutiny of Annual return on mining machineries	-- BACK HOE (3.4 m3) - 3 nos. -- BACK HOE (3.2 m3) - 1 no -- Dozer (200 HP) - 2 nos. -- Dumper (33 tonne) - 10 nos. -- Dumper (34 tonne) - 7 nos. Drilling Machine - 3 nos. Water Tanker - 1 nos. Pumps - 4 nos. Crusher - 01 no. Tractor - 01 no.	Found to be in order.	Nil
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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

Date :

(Ajay kumar Jatolia)

Indian Bureau of Mines