

I/8356/2023

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LST.-379

**Mine code :** 38MPR35352

- (i) Name of the Inspecting : **G005** ) **SANJAY M. GIRHE**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 17-MAR-23
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PAGARA-JHIRIYA LIMESTONE**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : **MADHYA PRADESH**  
District : **SATNA**  
Village : **Jhiriya Bajpaien**  
Taluka : **Rampur Baghelan**  
Post office : **Rampur Baghelan**  
Pin Code : **485115**  
FAX No. : **91-11-23465100**  
E-mail : **v.karthikeyan@dalmiacement**  
Phone : **91-11-23465100, 2331303**
- (f) Police Station : **Tala**
- (g) First opening date : **06-NOV-15**
- (h) Weekly day of rest : **SUN**
2. Address for : **Dalmia Cement (Bharat) Ltd.**  
correspondance : **11th & 12th floors, Hansalaya Building,**  
**15 Barakhamba Road, New Delhi-110001**
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked :

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## 5. Name and Address of the

Lessee : DALMIA CEMENT (BHARAT) LIMITED  
SATNA MADHYA PRADESH  
Phone:  
FAX :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 23-JAN-20  
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 exploration was proposed during the year 2021-22 & 2022-23	Nil	Entire mineralised area explored in G1 level previously by detailed exploration
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed during the year 2021-22 & 2022-23	Nil	Entire mineralised area explored in G1 level previously by detailed exploration
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed during the year 2021-22 & 2022-23	Nil	Entire mineralised area explored in G1 level previously by detailed exploration
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed during the year 2021-22 & 2022-23	187.57 Ha area under G1	Entire mineralised area explored in G1 level previously by detailed exploration
1e	Balance reserve as on 01/04/20	Reserves in Million Tonnes Probable mineral Reserve( 122) -36.46 Million Tonnes Prefeasibility Mineral Resources( 222)- 45.29 Million Tonnes As per ROMP approved on dtd 23.01.2020	Reserves in Million Tonnes Proved (111) - 63.20 Million Tonnes Resources in Million Tonnes Pre-Feasibility(221): 32.92Million Tonnes Pre-Feasibility(222):55.09 Million Tonnes Measured(331): 96.12 Million Tonnes Indicated (332): 55.09 Million Tonnes As Per Geological Report submitted in July 2020 to IBM	Entire mineralised lease area has been explored fully G1 level of exploration and accordingly its geological report submitted to the IBM Jabalpur.
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	The limestone of mining lease area belongs to Bhandan group of Vidhyan super group. The general strike of the deposit is NE-SW and dip is varying 3deg to 4deg

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## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work between N2703800- N2704600 & E520200- E521000	Working carried out at proposed location but in very meager quantity	For aforesaid deviation violation under Rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil:- 1 Bench Limestone :- 2 Benches	Working carried out as per proposal but deviation occured	For aforesaid deviation violation under Rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.84 Tonne/CuM	Acheived as 1:0.39 Tonne/CuM	During the year 2021-22 no OB generated but top soil of 434 CuM generated
2d	Quantity of topsoil generation in m3	Proposed as 146115 CuM	Acheived as 434 CuM	Due very less production of limestone less development has done during the year
2e	Quantity of overburden generation in m3	Proposed as 67409 CuM	Nil	No OB/ Waste generated during the year 2021-22
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	Ther is very small working pit in the mining lease area. During the year 2021-22 very low propduction carried out. Mining operations not started in full flagged due to land acquisition issues

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed for production	Working carried out as per proposals	Nil

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3b	Quantity of ROM mineral production proposed	200000 Tonnes	1095 Tonnes	For such huge deviations, violation under Rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 95%	Acheived as 95%	Nil
3d	Quantity of mineral reject generation	No Proposals	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Proposals	Nil	Nil
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposals	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	HEMM permission under 106 2(b) of MMR 1961 received on 29.04.2022
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Deep Hole Drilling & Blasting (110mm- Dia & 6.5m Length) proposed	Not done	Very meager production of 1095 MT carried out during the year 2021-22

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3k	Provision of mining machineries in mineral benches	Hydraulic Excavators- 4.0 Cu. M -2 Nos Dumper 35 T- 5 Nos Drill Machine 100mm- 1No Rock Breaker With Backhoe arrangement- 80 Tonne Dozer- 270 Hp Road Grader- Water Sprinkler-16Kl Diesel Tanker- 16 Kl Explosive Van- 6-9 Tonne Weigh bridge- 50 Tonne Diesel Pump 50 HP -2 Nos	Hydraulic Excavators- 4.0 Cu. M -2 Nos Dumper 35 T- 5 Nos Drill Machine 100mm- 1No Rock Breaker With Backhoe arrangement- 80 Tonne Dozer- 270 Hp Road Grader- Water Sprinkler-16Kl Diesel Tanker- 16 Kl Explosive Van- 6-9 Tonne Weigh bridge- 50 Tonne Diesel Pump 50 HP -2 Nos	Very meager production of 1095 MT carried out during the year 2021-22
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	36.27 Ha as per ROMP approved on 23.01.2020	0.6 Ha as per annual return 2021-22	Deviation in excavated area due to less production and delay in plant construction (F.Y 2021-22). Violation under Rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.84 Tonne/CuM	Acheived as 1:0.39 Tonne/CuM	During the year 2021-22 no OB generated but top soil of 434 CuM generated
3o	Total area put in use under different heads at the end of year	Pit area- 36.27Ha, Top soil storage- 5.0Ha, OB dumps-3.2Ha, Road-8.56Ha, etc as per approved ROMP dtd 23.01.2020	Pit area-3.10 Ha as per annual return 2021-22	Due to land acquisition issues, very less production have been carried out in 2021-22 & in previous years

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3p	Production of ROM mineral during the last five year period as applicable	2020-21- 0 2021-22- 200000 MT	2020-21- 0 2021-22- 1095 MT	Violation under rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Mechanised open cast working proposed by using Excavator with dumpers combination with deep hole drilling & blasting.

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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 of top soil and OB proposed	Not done	No OB generated during the year 2021-22 & 434 CuM top soil generated
4b	Location of topsoil, OB and mineral reject dumps	NA	No topsoil, OB & mineral reject dumps existed	Concurrent use of top soil is envisaged as & when top soil encountered in the form of safety bunds
4c	Number of dumps within lease area and outside of lease area	No OB dumps in mining lease area	At present there are no dumps in the existing lease area	At present there are no dumps in the existing lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No OB dumps in mining lease area	No OB dumps in mining lease area	
4e	Number of active and alive dumps.	No OB dumps in mining lease area	No OB dumps in mining lease area	
4f	Number of dead dumps.	No OB dumps in mining lease area	No OB dumps in mining lease area	
4g	Number of dumps established.	No OB dumps in mining lease area	No OB dumps in mining lease area	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	No OB dumps in mining lease area

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4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	No OB dumps in mining lease area
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Presently mining operations not commenced in full flagged due land acquisition issues and hence no overburden is generated.

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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.	Presently mining not started in full flagged manner	Presently mining not started in full flagged manner	
5b	Area under backfilling of mined out area	No Proposals	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	During the year 2021-22 very low propduction carried out. Mining operations not started in full flagged due to land acqisition issues.

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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).	To be submitted before 1st July of every year	Yes, Complied	PMCP has been submitted for the period 2021-22 on 25.06.2022 to IBM Jabalpur.
6b	Area available for rehabilitation (ha) .	No Proposals	Nil	The mining operation were commenced on 30.07.2021, so there is no proposal was given for the year 2021-22.
6c	afforestation done (ha).	The plantation over 5.066 ha (10000 Saplings). area is planned to taken up along the road near the working pit.	Plantation is done by 520 saplings over an area of 0.26 Ha on waste / barren land near mine office.	
6d	No. of saplings planted during the year	The plantation over 5.066 ha (10000 Saplings). area is planned to taken up along the road near the working pit.	Plantation is done by 520 saplings over an area of 0.26 Ha on waste / barren land near mine office.	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposals	Nil	Nil

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No Proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposals	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Complied	Regularly the Analysis reports of monitoring has been submitted to MPPCB RO, Satna.

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Presently cope of backfilling/reclamation & rehabilitation doesn't exist as the mining operations not commenced in full flagged manner. Periodic monitoring is being carried out by outsourced consultant.
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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Size reduction and proper Blending to meet the requirement of end use plant.	Nil	Currently the mining operation is in a very nascent stage. Due to delay in land purchase.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Currently the mining operation is in a very nascent stage. Due to delay in land purchase.
7c	Different grade of mineral sorted out at mines.	Proper Blending	NA	Nil
7d	Any beneficiation process at mines	No Proposals	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Scope of mineral conservation doesnot exists presently as the mining operations not started in full flagged manner due land acquisition issues.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	50658 Cu.M	434 Cu.M generated and the same is used for making Safety bund around the pit	
8b	Concurrent use or storage of topsoil	Concurrent use proposed	434 Cu.M generated and the same is used for making Safety bund around the pit	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for OB proposed	Nil	No OB generated during the year 2021-22
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The plantation over 5.066 ha (10000 Saplings). area is planned to taken up along the road near the working pit.	Plantation is done by 520 saplings over an area of 0.26 Ha on waste / barren land near mine office.	Nil
8g	Survival rate	80 %	80 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by 16 KL water sprinkler	Regular water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Mining operations not commenced in full flaged manner till now due land issues.
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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- February- 2023 A.R. submitted upto- 2021-22	Monthly return for the month of February 2023 submitted on 07.03.2023. Annual Return for the year 2021-22 submitted on 24.06.2022	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Vikrant Saraf, Ming Eng. and Shri Arjun Singh apponted as per provisions of Rule 55 of MCDR,2017	Geologist & mining Eng were present during mines inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Nil	The mining operation were commenced on 30.07.2021 and very less production reported during 2021-22
9d	Scrutiny of Annual return on afforestation	Given	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-110.510 MT C/S-984.490 MT	The mining operation were commenced on 30.07.2021 and very less production reported during 2021-22

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 346.29/MT	Nil
9h	Scrutiny of Annual return on fixed assets	Given	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Given	Nil	The mining operation were commenced on 30.07.2021 and very less production reported during 2021-22

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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)	24-APR-23			
MCDR17	Rule 27(2)	24-APR-23			
MCDR17	Rule 31(4)	24-APR-23			

**Date :****(SANJAY M. GIRHE)**

Indian Bureau of Mines