

I/8353/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST. 380

Mine code : 38MPR35353

- (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** : **JAMUNA LIMESTONE 89.234**
- (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 : JAMUNA
Taluka : Rampur Baghelan
Post office : JAMUNA
Pin Code : 485115
FAX No. : 91-11-23465100
E-mail : v.karthikeyan@dalmiacement
Phone : 91-11-23465100, 23313303
- (f) Police Station : TALA
- (g) First opening date : 05-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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6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 24-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2021-22 & 2022-23 there was no exploration proposals	Nil	Detailed exploration carried over entire mineralised area in G1 level
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22 & 2022-23 there was no exploration proposals	Nil	Detailed exploration already carried over entire mineralised area in G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2021-22 & 2022-23 there was no exploration proposals	Nil	Detailed exploration already carried over entire mineralised area in G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2021-22 & 2022-23 there was no exploration proposals	Entire mining lease area of 89.234 Ha explored in G1 level	Detailed exploration already carried over entire mineralised area in G1 level
1e	Balance reserve as on 01/04/20	Reserves in Million Tonnes Probable (122) - 11.42MT Prefeasibility Mineral (222): 4.05 MT	Reserves in Million Tonnes Proved(111) - 24.17MT Pre-Feasibility(221): 15.55 MT Indicated (332): 15.48 MT As per Geological report submitted on March 2021	Entire mineralised lase area has been explored fully as per UNFC Guidelines by the DCBL in G1 level of exploration. Geological report is submitted.
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	The limestone of mining lease area belongs to Bhandar group of Vidhyan super group. The general strike of the deposit is NE-SW and dip is varying 3deg to 4deg

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 worked in between N2717500- N2717850 / E508550- E508900	Working carried out at proposed location but very less production carried out	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 :- 1 Benches	Topsoil:- 1 Bench Limestone: 1 Bench	
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.40 Tonne/CuM	Acheived as 1:0.33 Tonne/CuM	During the year 2021-22 no OB generated only 260 CuM top soil generated
2d	Quantity of topsoil generation in m3	Proposed as 13600 CuM	Acheived as 260 CuM	
2e	Quantity of overburden generation in m3	Proposed as 10800 CuM	Nil	No overburden generated during the year 2021-22 due to very less production of limestone
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 acqisition issues

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Working carried out in single pit
3b	Quantity of ROM mineral production proposed	108000MT during the year 2021-22	765MT Acheived during the year 2021-22	For such huge deviations, violation under Rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23

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3c	Recovery of sailable/usable mineral from ROM production	Proposed as 95%	Acheived about 95%	
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	Manual	Very less amount of 765 MT limestone production carried out in 2021-22
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 Blasting (110 mm dia & 6.5 m depth)	Not done	Very less production of 765 MT carried out during the year 2021-22

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3k	Provision of mining machineries in mineral benches	Dumpers/ Tippers 35 tonne-4No Drill machine 100 mm-1No Rock breaker with backhoe arrangement 80 tonne-1No Dozer270 HP-1No Road Grader-1No Water sprinkler16 Kl-1No Diesel Tanker16 Kl-1No Explosive Van 6-9 tonne-1No Weigh Bridge 50 tonne-1No Diesel Pump 50 HP-1No Diesel Pump 50 HP-1No	Dumpers/ Tippers 35 tonne-4No Drill machine 100 mm-1No Rock breaker with backhoe arrangement 80 tonne-1No Dozer270 HP-1No Road Grader-1No Water sprinkler16 Kl-1No Diesel Tanker16 Kl-1No Explosive Van 6-9 tonne-1No Weigh Bridge 50 tonne-1No Diesel Pump 50 HP-1No Diesel Pump 50 HP-1No	Very less production of 765 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	1.39 Ha	0.104 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.40 Tonne/CuM	Acheived as 1:0.33 Tonne/CuM	During the year 2021-22 no OB generated only 260 CuM top soil generated
3o	Total area put in use under different heads at the end of year	4.99 Ha	0.254 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2020-21:- Nil 2021-22:- :108000MT	2020-21:- Nil 2021-22:-:765 MT	For aforesaid deviation violation under Rule 11(1) of MCDR,2017 pointed out & issued on 24.04.23

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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)	OB/Waste Storage Area: 3.50 Ha. MR storage area:- Nil	Nil	Very less production of 765MT carried out during the year 2021-22
4b	Location of topsoil, OB and mineral reject dumps	OB/Waste Dump:- E509400- E509700, N2717100- N2717400 & 0.47 ha MR Dump:- Nil	Nil	Very less production of 765MT carried out during the year 2021-22 & no OB generated during this period
4c	Number of dumps within lease area and outside of lease area	One OB dump in mining lease area	One OB dump in mining lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One OB dump in mining lease area	One OB dump in mining lease area	
4e	Number of active and alive dumps.	One OB dump in mining lease area	One OB dump in mining lease area	
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Retaining wall 860m & Garland drain 555m	Nil	Very less production of 765MT carried out during the year 2021-22 & no OB generated during this period
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall 860m & Garland drain 555m	Nil	Very less production of 765MT carried out during the year 2021-22 & no OB generated during this period

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4i	Length of Retaining wall or garland drain all along dumps	Retaining wall 860m & Garland drain 555m proposed	Nil	Very less production of 765MT carried out during the year 2021-22 & no OB generated during this period
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 flaged due land acquisition issues and hence no overburden is generated.

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 Proposals	Nil	Presently mining operations not commenced in full flaged due land acquisition issues and hence no overburden is generated.
5b	Area under backfilling of mined out area	NA	NA	Presently mining operations not commenced in full flaged due land acquisition issues and hence no overburden is generated.
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	NA	NA	Presently mining operations not commenced in full flaged due land acquisition issues and hence no overburden is generated.

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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 acquisition issues.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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 submitted for the period 2021-22 on 25.06.2022 to IBM Jabalpur
6b	Area available for rehabilitation (ha) .	NA	NA	Nil
6c	afforestation done (ha).	No Proposals	Nil	Nil
6d	No. of saplings planted during the year	No Proposals	Nil	Nil
6e	Cumulative no .of plants	NA	NA	Nil
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
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	Nil

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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	200 Saplings proposed in 2021-22	300 Saplings planted on waste land	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes, Compliances of environmental monitoring is being carried out.	Analysis reports were provided

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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	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	108000 MT proposed as total ROM production for despatch.	765MT production of limestone carried out in 2021-22 for dispatches	During the year 2021-22 very low production carried out. Mining operations not started in full flagged due to land acquisition issues
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Nil	During the year 2021-22 very low production carried out. Mining operations not started in full flagged due to land acquisition issues
7c	Different grade of mineral sorted out at mines.	Proper Blending	Nil	During the year 2021-22 very low production carried out. Mining operations not started in full flagged due to land acquisition issues
7d	Any beneficiation process at mines	No Proposals	Nil	Nil

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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
8a	Separate removal and utilization of topsoil (Rule 32)	About 1200 m3 for protective bund proposed	260.8 m3 used for protective bund	Currently the mining operation is in a very nascent stage due to delay in land purchase & plant construction
8b	Concurrent use or storage of topsoil	Use:- 1200 Cu.M Storage:- 13600 Cu.M	260.8 Cu.M Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	Nil	Nil
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

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation over 0.10 Ha. area with 200 nos. of saplings proposed.	Plantation over 0.15 Ha area with 300 nos of saplings done	
8g	Survival rate	Proposed as 80%	Acheived as about 80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by 16KL water sprinkler	Complied	
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.

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	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	ShriMukesh Kumar, Ming Eng. and Shri P Kumara Raghavendra, Geologist 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	Working Pit area-1.464Ha Other-0.15 Ha	Currently the mining operation is in a very nascent stage due to delay in land purchase & plant construction
9d	Scrutiny of Annual return on afforestation	Given	300 nos of saplings planted during the year 2021-22	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	No mineral rejects generated during the year	Currently the mining operation is in a very nascent stage due to delay in land purchase & plant construction
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-76.440 MT C/S-688.560 MT	Currently the mining operation is in a very nascent stage due to delay in land purchase & plant construction
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 335/MT	Currently the mining operation is in a very nascent stage due to delay in land purchase & plant construction
9h	Scrutiny of Annual return on fixed assets	Given	Nil	
9k	Scrutiny of Annual return on mining machineries	Given	Nil	Currently the mining operation is in a very nascent stage due to delay in land purchase & plant construction

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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