

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/CHT/LST-8

**Mine code :** 38RAJ09006

- (i) Name of the Inspecting : **B014** ) **CHANDRESH BOHRA**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Tanmoy Ghosal, Agent, Shri Abhishek Bharadwaj ,  
Official with  
Designation
- (iv) Date of Inspection : 04/12/2024
- (v) Prev.inspection date : 05/01/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ADITYA**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : CHITTORGARH
- Village : NEAR MEDIKA AMARANA
- Taluka : CHITTORGARH
- Post office : ADITYAPURAM SHAMBHUPURA
- Pin Code : 312612
- FAX No. : 01477-220289
- E-mail : adityacement@adityabirla.co
- Phone : 01472-220192-97
- (f) Police Station : Shambhupura
- (g) First opening date : 24/08/1995
- (h) Weekly day of rest : SUN
2. Address for : ADITYA CEMENT WORKS  
correspondance : POST-ADITYAPURAM, Sawa, Amarpura, sindaudi  
DISTT-CHITTORGARH (Raj.)
3. (a) Lease Number : RAJ0394
- (b) Lease area : 760.69
- (c) Period of lease : 50
- (d) Date of Expiry : 28/04/2044
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : Aditya Cement  
 (Grasim Ind. Limited)  
 Adityapuram, Sawa  
 Shambhupura, Chittorgarh  
 CHITTORGARH RAJASTHAN  
 Phone:  
 FAX :

Owner : O.P. Puranmalka  
 Aditya Birla Centre, S. K.  
 Ahire Marg, Worli Mumbai  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone: 022 - 66917800/  
 FAX : 022 - 66928109

Agent : RAJESH SAMBREY  
 ADITYAPURAM ADITYA CEMENT  
 CHITTORGARH RAJASTHAN  
 Phone: 01472-220289  
 FAX : 01472-22019

## Mining Engineer

Name : Shri Kamal Paliwal, Full Time  
 Qualification : B E Mining FCC  
 Appointment/ : 29/06/2010  
 Termination date

## Geologist

Name : P.S.MISHRA, Full Time  
 Qualification : M.SC. M. TECH.  
 Appointment/ : 21/06/1996 30/09/2017  
 Termination date

## Geologist

Name : B.K.GANGAWAT, Full Time  
 Qualification : M.SC.(GEOLOGY)  
 Appointment/ : 30/09/2017  
 Termination date

## Manager

Name : Naval Kishore Sharma  
 Qualification : B. E. Mining, FCC (R)  
 Appointment/ : 15/12/2011  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 25/05/2000  
 Modif.approved Mining Scheme 23/09/2004  
 Mining Scheme rule 12 MCDR1988 03/03/2005  
 Modif.approved Mining Scheme 28/11/2005  
 Renewal under rule 24 MCR1960 20/11/2013  
 Renewal under rule 24 MCR1960 20/11/2013  
 MP modif under 17(3) MCR 2016 25/02/2019

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the year 2023-24	nil	
1b	Exploration over lease area for geological axis 1 or 2	nil	nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Whole area convert into G1	Whole area convert into G1	Total lease area, entire mineralized area has been explored in G1
1e	Balance reserve as on 01/04/20	269.78 Million Tonnes	As above	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The current status on geology and exploration may be considered as satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Pit 1 E459243.3740 to E 460212.7465 N2736432.6750 to N 2737283.9750 MRL 372  Pit 2W E 459502.0000 to E 460629.0000 N2735553.0000 o 2736391.00 MRL 390  Pit 3 E 459775.0000 to E 460886.0000 N 2733137.0000 to N 2735178.0000 MRL 372	Pit 1 E459243.3740 toE460212.7465 N2736432.6750 to N 2737283.9750 MRL 380  Pit 2W E 459502.00 to E460629.0000 N2735620.0to N2736391.000 MRL 396  Pit 3 E 459824.0 to E 460856.0000 N2733138.0000 to N 2735069.000 MRL 384
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES
2c	Stripping ratio or ore to OB ratio	1:0.28	1:0.31
2d	Quantity of topsoil generation in m3	10000	7000
2e	Quantity of overburden generation in m3	1499198.6960	1318959.0000
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status on development of pit w.r.t. type of deposit may be considered as satisfactory.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three	Three	

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3b	Quantity of ROM mineral production proposed	12500000	9725468	
3c	Recovery of sailable/usable mineral from ROM production	12000000	9499823	(9499823 CGLS+225645) Screen Reject)
3d	Quantity of mineral reject generation	500000	225645	
3e	Grade of mineral rejects generation and threshold value declared.	<34%CaO	25.20 to 33.10% of CaO	Clay fraction separated from Limestone by mechanical screening
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No	
3j	Provision of drilling and blasting in mineral benches	Drill size 102 mm Drilling and blasting in Burden &spacing of 4-5m &6-7m respectively	Drill size 102 mm Drilling and blasting in Burden &spacing of 4-5m &6-7m respectively	
3k	Provision of mining machineries in mineral benches	Mining in mineral benches fully mechanized by HEMM i.e. Shovel ,dumper dozer etc.	Mining in mineral benches fully mechanized by HEMM i.e. Shovel,dumper dozer etc.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As above
3m	Total area covered under excavation/pits	264.30 H.	251.870 H.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.28	1:0.31
3o	Total area put in use under different heads at the end of year	Total area put to use at the end of plan period is 364.614(excluding plantation area)	340.32Ha. area at the end of year 2023-24 (Excluding plantation area)
3p	Production of ROM mineral during the last five year period as applicable	2019-20 : 12425560 2020-21 : 10600000 2021-22 : 10600000 2022-23 : 12500000 2023-24 : 12500000	2019-20 : 7330044 2020-21 : 8274385 2021-22 : 10243406 2022-23 : 10384917 2023-24 : 9725468
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status on method of mining may be considered as satisfactory.

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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	Yes	

4b	Location of topsoil, OB and mineral reject dumps	OB Dump 460207.4000 E to 460553.7000E27 36834.3000 Nto2737079.50 MRL 450.0000  460731.9067 E to460947.813E to 461005.0273E 2735639.9500 N MRL 452.0000 to 2736249.9430 N MRL 452.0000  460704 E to 461165 E 2734605.5000 N to 2735157.20 N MRL 463.0000  Screen Reject 460649.8668 E to 460902.6906E 2736738.5170 N to 2737019.24 N MRL 440.0000  460753.4036 E to 461111.5885 E 2735455.1140 N to 2735640.60 N MRL 452.0000   460746.5387 E to 461025.4297E 2735135.3910 N to2735416.530N MRL 451.000	OB Dump 460207.4000 E to460553.7000 2736834.3000 Nto2737079.5 MRL 450  460731.9067 E to460947.813E 2735639.9500 N to 2736202.351 N MRL 452.0000  460704 E to 461165 E 2734605.50 N to2735157.2N MRL 463  Screen reject 460736.2377 to460902.690E 2736852.8Nto2737019.24N MRL 440.000  460753.4036 E to 460972.7616 E 2735455.1140Nto2735640.6 420 NMRL 451.230  460746.5387 E to460930.629E 2735135.391N 2735421.003N MRL 454.000  460753.4036 E to 461111.5885 E 2735455.1140 N to 2735640.60 N MRL 452.000
4c	Number of dumps within lease area and outside of lease area	Total seven dumps inside the lease area	Total seven dumps inside the lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All outside ultimate pit limit	All outside ultimate pit limit

4e	Number of active and alive dumps.	Five dumps are active	Five dumps are active
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Two dumps	Two dumps
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	100Mtr. retaining wall and 100Mtr. Garland drain proposed	100Mtr. Retaining wall and 100Mtr. Garland drain
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	The present status on waste dump management may be considered as satisfactory.

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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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	In plantation work	In plantation work	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The area is not matured for backfilling and reclamation activities.	

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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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	1.0	1.2	
6c	afforestation done (ha).	2000	2422	
6e	Cumulative no .of plants	--	267598	
6f	Any other method of rehabilitation	Not specified in Mining Plan	Nil	
6g	Cost incurred on watch and care during the year	Not specified in Mining Plan	Upto year 2023-24 Rs. 600000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Applicable	Not Applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable	Not Applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Applicable	Not Applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring in core zone and buffer zone	Regular monitoring in core zone and buffer zone
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The present status on PMCP compliance and progressive closure operations may be considered as satisfactory.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	12500000	9725468	9499823CGLS + 225645 SR. Production is as per the plant requirement.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical screening process during Limestone crushing	Mechanical screening process during Limestone crushing	

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7c	Different grade of mineral sorted out at mines.	No	No
7d	Any beneficiation process at mines .	Mechanical screening process during Limestone crushing	Mechanical screening process during Limestone crushing
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status on Mineral CONservation and beneficiation may be considered as satisfactory.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Utilizing for Plantation
8b	Concurrent use or storage of topsoil	In plantation work	In plantation work	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	As per designated place given in Mining Plan	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000	2420
8g	Survival rate	Not specified in proposal	81.75
8h	Water sprinkling on roads to control airborne dust	By Water Tankers	By Water Tankers
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	na	The present status on aesthetic beauty in and around mines area may be considered as satisfactory.

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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 Nov. 2024 A.R. Submitted upto Year 2023-24	Timely Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager Mr. Abhishek Bhardwaj Mining Engineer Devendra Singh Rajpurohit Geologist Bhupendra Kumar Gangawat	As above	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current Working 251.870 Ha Reclaimed/Rehabilitated 0.00Ha. Used for Waste Disposal (Dumps) 46.570 Ha. Occupied by plant, building residential, welfare building and road 37.970 Ha. Topsoil&Mineral storage 3.910 Ha. Plantation 1.2 Ha.	As above
9d	Scrutiny of Annual return on afforestation	Nos plantation 2422 nos. Survival rate 81.75%.	As above
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	225645 MT Screen reject generated	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Zero stock	As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	198.11Rs./MT Ex-mines price	Seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Rs.1669823857f	As above
9k	Scrutiny of Annual return on mining machineries	Shovel, Dumpers, Wheel loader, Dozer, Road roller, Motorgrader etc.	As above.

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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 :

(CHANDRESH BOHRA)

Indian Bureau of Mines