

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/SATNA/LIMESTONE-0

**Mine code :** 38MPR35331

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 18-FEB-21
- (v) Prev.inspection date : 06-NOV-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BANDARAKHA LIMESTONE**
- (b) **Registration NO.** : **IBM/267/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : SATNA  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : 07672-275303  
E-mail : regdofficeprismcement@gmail.  
Phone : 07672-275303
- (f) Police Station : Kolgawa
- (g) First opening date : 28-FEB-11
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance
3. (a) Lease Number : MPR2368
- (b) Lease area : 40.24
- (c) Period of lease : 20
- (d) Date of Expiry : 27-FEB-31
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : PRISM CEMENT LTD.  
RAJDEEP, REWA ROAD, SATNA  
MADHYA PRADESH  
Phone:(O) 07675 - 504403  
FAX : (O) 07675 - 227514 (W) 275303

Owner : PRISM CEMENT LIMITED  
PRISM CEMENT LTD. SATNA  
MADHYA PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 05-JAN-16  
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 21-JUL-20

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	6BH(240 m)	5 BH (175m)	violation pointed out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Prism johnson Ltd	Prism johnson Ltd	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	already explored in G1 as per the approved document.	
1e	Balance reserve as on 01/04/20	4.683 Million Tonnes	4.779 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			exploration lagging behind the approved proposals and hence violation pointed out under rule 11(1) of MCDR 2017.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit II N2718800 to 2719030 & E 498000 to 498140	Pit II N2718850 to 2719030 & E 498000 to 498100	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.14 T/M3	1:0.23 T/M3	

2d	Quantity of topsoil generation in m3	34708 M3	34385 M3
2e	Quantity of overburden generation in m3	NA	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos	2 nos	
3b	Quantity of ROM mineral production proposed	240000 MT	143684 MT	violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NP	NA
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes
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	4.324	3.390 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14 T/M3	1:0.23 T/M3
3o	Total area put in use under different heads at the end of year	6.07 Ha	5.924 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 240000 2016-17 240000 2017-18 240000 2018-19 240000 2019-20 240000	2015-16 0 2016-17 0 2017-18 75075 2018-19 192560 2019-20 143684
3q	General remarks of inspecting officers on method of mining etc.		overall production is lagging behind the approved proposals and hence violation pointed out under rule 11(1) of MCDR 2017.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	1 topsoil NW of pit II 2 D2 South of pit II 3 D1 west of Pit II 4 D4 NE of Pit II	1 topsoil NW of pit II 2 D2 South of pit II 3 D1 west of Pit II 4 D4 NE of Pit II	
4c	Number of dumps within lease area and outside of lease area	4	4	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL (Temporary Dumps)	Within UPL (Temporary Dumps)	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	NA	Nil	
4g	Number of dumps established.	02	02	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	As per proposal	
4i	Length of Retaining wall or garland drain all along dumps	NA	Garland drain 490 x2x1	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full Extraction proposed	Full Extraction adopted
5b	Area under backfilling of mined out area	NA	NA
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be used in plantation	Used in plantation
5d	Total area fully reclaimed and rehabilitated	NA	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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Progressive Mine Clousre Plan:

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Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Not submitted	violation pointed out
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha) .	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	

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6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	NA	NA	Area not matured for reclamation and rehabilitation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	Area not matured for reclamation and rehabilitation
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	nil	nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not proposed	nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	not proposed	nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	not proposed	nil	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	not proposed	nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	not proposed	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	as per proposal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral will be directly dispatched to captive plant.	ROM mineral directly dispatched to captive plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	not proposed	nil	

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7e General remarks  
of inspecting  
officer on  
Mineral  
conservation and  
beneficiation  
issues

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	As per proposal	
8b	Concurrent use or storage of topsoil	To be Stored & used for plantation	Stored & used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	As per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes	As per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	information available	

8g	Survival rate	70%	70%
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling on roads done as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	AR submitted till 2019-20 MR submitted till March 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager & Mining Engineer Mr. Deo Prakash Geologist Mr. Santosh Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings -3.390 Ha Used for waste disposal 1.734 Ha	
9d	Scrutiny of Annual return on afforestation	yes	furnished	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	nil	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	Ex-Mine-233.48 (cement grade)
9h	Scrutiny of Annual return on fixed assets	yes	nil
9k	Scrutiny of Annual return on mining machineries	yes	SHOVEL (HYDRAULIC) 3.800 CUM 1no Non Electrical SHOVEL (HYDRAULIC) 4.000 CUM 1no Non Electrical BACK HOE 2.500 CUM 2 Nos Non-Electrical DUMPER 40.000 TONNE 4nos Non Electrical DUMPER 25.000 TONNE 4nos, Non Electrical ROCK DRILL (NONELEC.) 110.000 MM 1no, Non Electrical PUMPS (NON-ELEC.) 13300.000 L/MN 1no, Non Electrical

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	06-APR-21			
MCDR17	Rule 26(2)	06-APR-21			

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines