

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

**Check up inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/STN/LST-270

**Mine code :** 38MPR35137

- (i) Name of the Inspecting : **NQ07** ) **PUKHRAJ NENIVAL**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Mr Manoj Singh, VP (Mines), Mr S S Rai, GM Mines & Mr  
Official with  
Designation
- (iv) Date of Inspection : 17-NOV-21
- (v) Prev.inspection date : 11-MAR-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PRISM CEMENT (253.326 HA)**
- (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 : HINOUTI  
Taluka : RAMPUR BAGHELAN  
Post office : BATHIYA  
Pin Code : 485111  
FAX No. : (O) 07675 - 227514 (W) 2751  
E-mail : shashi.ray@prismjohnson.in  
Phone : 07672-75301, 75302
- (f) Police Station : Kolgawa
- (g) First opening date : 28-SEP-96
- (h) Weekly day of rest : SUN
2. Address for : M/S PRISM CEMENT LIMITED  
correspondance : RAJDEEP, REWA ROAD,  
SANTA (M.P.) 485001
3. (a) Lease Number : MPR1574
- (b) Lease area : 253.33
- (c) Period of lease : 50
- (d) Date of Expiry : 27-SEP-46
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	09-AUG-02
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	11-MAY-06
		Modif.approved Mining Scheme	19-SEP-08
		Mining Scheme rule 12 MCDR1988	21-SEP-11
		Modif.approved Mining Scheme	05-SEP-12
		MP modif under MCR 1960	13-APR-16
		MP modif under 17(3) MCR 2016	23-MAR-18
		MP modif under 17(3) MCR 2016	29-OCT-20

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not applicable	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	10 Core Boreholes	10 Core Boreholes	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Prism Jonson Ltd MRM, Expenditure-12.12 Lakh	Prism Jonson Ltd MRM, Expenditure-12.12 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil,	Nil, Area explored under G1 level	
1e	Balance reserve as on 01/04/20		45.16 Million Tonn	
1f	General remarks of inspecting officers on geology, exploration etc			Area explored under G1 level

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-II -772 to-967 N to 1371E and 1605N, Pit-III 273E to500E and -800N to -967N, Pit-IV 273E to 500E and --800N to --967N, ,	Pit-II -772 to-967 N to 1371E and 1605N, Pit-III 273E to500E and -800N to -967N, Pit-IV 273E to 500E and --800N to --967N, ,	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Pit-II - OB- 6m., Mineral-5m., Pit-III OB- 1m., Mineral-5m., Pit-IV -OB- 8m., Mineral-6m.	Pit-II - OB- 6m., Mineral-5m., Pit-III OB- 1m., Mineral-5m., Pit-IV -OB- 8m., Mineral-6m..	

2c	Stripping ratio or ore to OB ratio	1:0.65	1: 0.60
2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	1425254 Tons	1388869 Tons
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The limestone band is being mined with simultaneous backfilling of the mined out land.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three pit	Three pit	
3b	Quantity of ROM mineral production proposed	2175000 Tons	2174769 Tons	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	Not applicable	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Not proposed	Not applicable	
3g	Grade of sub grade mineral generation	Not proposed	Not applicable	

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3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not applicable
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable
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	As per proposal separate benches of less than 6m height shall be maintained in the ore at the mine
3m	Total area covered under excavation/pits	204.677 ha	204.677 ha
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.99	1: 0.99
3o	Total area put in use under different heads at the end of year	221.884 ha	221.884 ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 3000000 2017-18 3000000 2018-19 3000000 2019-20 3000000 2020-21 2175000	2016-17 2166122 2017-18 2174813 2018-19 2173643 2019-20 2174244 2020-21 2174769

3q General remarks  
of inspecting  
officers on  
method of mining  
etc.

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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	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Within the lease area	Within the lease area	
4c	Number of dumps within lease area and outside of lease area	03( 02 Soil dump & 01 Waste Dump)	03( 02 Soil dump & 01 Waste Dump)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes	Temporary Dump	
4e	Number of active and alive dumps.	One Temporary Dump	One Temporary Dump	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable	
4j	Number of settling ponds	Nil	Not applicable	

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4k Specific comments of inspecting officer on waste dump management

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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.	Yes	Yes	
5b	Area under backfilling of mined out area	4.315 ha	4.315 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil has been stored for plantation in backfilled area	Top soil has been stored for plantation in backfilled area	
5d	Total area fully reclaimed and rehabilitated	50.50 ha	50.50 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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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).	PMCP report submitted	PMCP report submitted	

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6b	Area available for rehabilitation (ha) .	NA	NA
6c	afforestation done (ha).	NA	NA
6d	No. of saplings planted during the year	3580 nos	3580 nos
6e	Cumulative no .of plants	89355 nos	94858
6f	Any other method of rehabilitation	Plantation of Local Species proposed.	Plantation of Local Species done
6g	Cost incurred on watch and care during the year	822050 lakh	822050 lakh
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	304x200x50 m3	304x200x50 m3
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	4000 nos	4000 nos	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 ha	1 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation over green belt	Plantation over green belt	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Found in order	Quarterly report submitted in proper time.
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 is to be used for captive use of cement plant.	ROM is being used for captive use of cement plant.	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not applicable
7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable
7d	Any beneficiation process at mines	Screening	Screening
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	To be used for restoration and rehabilitation	To be used for restoration and rehabilitation	
8b	Concurrent use or storage of topsoil	Top soil has been stored for backfilling	Top soil has been stored for backfilling	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumps proposed for OB and top soil.	Temporary dumps found as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	7550 Nos. of Sample	7550 Nos. of sampling are planted
8g	Survival rate	70%	80%
8h	Water sprinkling on roads to control airborne dust	proposed	Done
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		AR and MR to be submitted within stipulated time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-01, Geologist-01 and Manager-01	Mining Engineer-01, Geologist-01 and Manager-01	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Found in order	

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9d	Scrutiny of Annual return on afforestation		3580 plants	found in order as per provided records.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Production - 2174769.000 Dispatches - 2114772.000 Closing Stock - 217176.000	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details provided in AR and MR	270.23	Captive use of mineral not for sale
9h	Scrutiny of Annual return on fixed assets	Details provided	Rs 2792498266/-	
9k	Scrutiny of Annual return on mining machineries	Details provided	Type of machinery Capacity of each unit No.of units Electrical/Non-Electrical (specify) Used in opencast/underground (specify) SHOVEL (HYDRAULIC) - 3.800 CUM - 2 nos SHOVEL (HYDRAULIC) 4.000 CUM - 2 nos BACK HOE 2.500 CUM -5 nos BACK HOE 2.900 CUM - 1 nos DUMPER 50.000 TONNE -13 nos DUMPER 25.000 TONNE 30 Non ROCK DRILL 110.000 MM- 2 nos DOZER 324.000 - HP 1 nos	

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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)	01-DEC-21			
MCDR17	Rule 27(1)	01-DEC-21			

**Date :**

**(PUKHRAJ NENIVAL)**

Indian Bureau of Mines