

**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 : **P013** ) **RAJNEESH PUROHIT**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : SH MANOJ SINGH, SH AMIT BISWAS  
Official with  
Designation
- (iv) Date of Inspection : 11-MAR-20
- (v) Prev.inspection date : 11-JAN-05

**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) 275:  
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 : 20
- (d) Date of Expiry : 27-SEP-16
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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for geological axis 1 or 2	12 Core Boreholes	6 Core Boreholes	Only 06 BH completed against 12 BH. Violation already pointed out for the same inspecting official and being folloe up
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Prism Jonson Ltd MRM, Expenditure-14.4 Lakh	Prism Jonson Ltd MRM, Expenditure-7.2 Lakh	Violation already pointed out for the same inspecting official and being folloe up
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area to be explored in G-1	Exploration proposed in 2018-19 not completed.	Violation already pointed out for the same inspecting official and being followed up
1e	Balance reserve as on 01/04/20	25.73MT	26.242MT	
1f	General remarks of inspecting officers on geology, exploration etc			Violation already pointed out for the same inspecting official and being followed up

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Second Band	Second Band	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES		It has been observed during inspection that the benches of overburden were not advanced properly between local grid E - 100 to 0 & N -900 to - 1100 to separate from ore benches so as to avoid mixing of waste with the ore.	Violation already pointed out for the same inspecting official and being followed up
2c	Stripping ratio or ore to OB ratio	1: 0.68	1: 0.39		Stripping ratio is not as per proposal due to less development. Violation already pointed out for the same inspecting official and being followed up
2d	Quantity of topsoil generation in m3	162891	16837		topsoil removal is not as per proposal. Violation has already been pointed out for the same.
2e	Quantity of overburden generation in m3	2067843	829504		overburden removal is less than the proposal. Violation has already been pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc				Violation already pointed out for the same inspecting official and being followed up

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**Exploitation:**

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

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3b	Quantity of ROM mineral production proposed	3000000 MT	2173643 MT
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
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	As per proposal separate benches of less than 6m height shall be maintained in the ore at the mine	During inspection it has been observed that in the western side of the lease benches between local grid E 0 to 100 & N -1100 to -1300 have been merged up some places resulting height of the benches found more than the proposed in approved document.	Violation already pointed out for the same inspecting official and being followed up
3m	Total area covered under excavation/pits	212.73 Ha	208.1 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.68	1: 0.39	Violation has already been pointed out for the same.
3o	Total area put in use under different heads at the end of year	227.947 Ha	221.317 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 3000000 2015-16 3000000 2016-17 3000000 2017-18 3000000 2018-19 3000000	2014-15 2174343 2015-16 2174591 2016-17 2166122 2017-18 2174813 2018-19 2173643	
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
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes
4b	Location of topsoil, OB and mineral reject dumps	Yes	Found in order
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.	1	1
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.	NA	NA
4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	NA	NA
4k	Specific comments of inspecting officer on waste dump management		

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Solid Waste Management - Backfilling:

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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.	It was proposed to reclaim 3.22 Ha area of pit no. IV by backfilling during the year 2018-19.	During inspection, it was observed that the mined out area was not backfilled as per proposal.	Violation already pointed out for the same inspecting official and being followed up
5b	Area under backfilling of mined out area	It was proposed to reclaim 3.22 Ha area of pit no. IV by backfilling during the year 2018-19.	During inspection, it was observed that the mined out area was not backfilled as per proposal.	Violation already pointed out for the same inspecting official and being followed up
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil has been stored for backfilling	Top soil has been stored for backfilling	
5d	Total area fully reclaimed and rehabilitated	49.71 Ha	49.71 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Violation already pointed out for the same inspecting official and being followed up

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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	

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6b	Area available for rehabilitation (ha) .	It was proposed to reclaim 3.22 Ha area of pit no. IV by backfilling during the year 2018-19.	During inspection, it was observed that the mined out area was not backfilled as per proposal.	Violation has already been pointed out for the same.
6c	afforestation done (ha) .	NA	NA	
6d	No. of saplings planted during the year	6000	6000	
6e	Cumulative no .of plants	82205 nos	82205 nos	
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	Rs.822050/-	Rs.822050/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	304x500x50 m3	304x500x50 m3	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not proposed	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed	Not proposed	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not proposed
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Not proposed
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	500 plants	1000 plants
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.42 Ha	done
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Found in order
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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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.
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 .	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	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.	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed .	Not done.	Violation pointed out.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed .	Not done.	Violation pointed out.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5020 Nos. of Sample	6000 Nos. of sampling are planted	
8g	Survival rate	80%	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			Violation already pointed out for the same inspecting official and being followed up

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR of Apr-18to Mar-19 to be submitted and AR of 2018-19 to be submitted.	MR of Apr-18 to Mar-19 to be submitted and AR of 2018-19 has been submitted.	

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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.	i) Excavation/pits 212.73 ii) Top soil storage 4.17 iii) Waste/Ob/I B dumps 5.79 iv) Mineral rejects 0 v) Sub grade mineral stacks 0 vi) Mineral stacks 0 vii) Plants, buildings, Infrastructure etc. 2.107 viii) Others (Roads) 3.15 ix) Total area put in use under different heads at the end of year For which FA given 227.947	i) Excavation/pits 208.1 ii) Top soil storage 4.17 iii) Waste/Ob/IB dumps 5.79 iv) Mineral rejects 0 v) Sub grade mineral stacks 0 vi) Mineral stacks 0 vii) Plants, buildings, Infrastructure etc. 1.107 viii) Others (Roads) 2.15 ix) Total area put in use under different heads at the end of year For which FA given 221.317
9d	Scrutiny of Annual return on afforestation	in the area of 0.42 Ha	in the area of 1.45 Ha
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not done	Not done
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not done	Not done

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not done	Not done
9h	Scrutiny of Annual return on fixed assets	Not done	Not done
9k	Scrutiny of Annual return on mining machineries	Not done	Not done

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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 :**

**(RAJNEESH PUROHIT)**

Indian Bureau of Mines