

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

**Mining Plan Modification REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LST-337

**Mine code :** 38MPR35314

- (i) Name of the Inspecting : **KQ06** ) **NARESH KUMAR KATARIYA**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh Manoj Sing (VP, Mines) K Das (Mine Manager), Ami  
Official with  
Designation
- (iv) Date of Inspection : 30-SEP-20
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PRISM CEMENT, MENDHI 117.**
- (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 : BAHGAI  
Taluka : RAMPUR BAGHALAN  
Post office : SIJAHATA  
Pin Code :  
FAX No. : 07672-275303  
E-mail : minesoffice@prismcement.cor  
Phone : 07672-275301-2
- (f) Police Station : Rampur Baghelan
- (g) First opening date : 12-DEC-11
- (h) Weekly day of rest : SUN
2. Address for : PRISM CEMENT LIMITED  
correspondance : RAJDEEP ,REWA ROAD,  
SATNA-485001
3. (a) Lease Number : MPR2185  
(b) Lease area : 117.59  
(c) Period of lease : 30  
(d) Date of Expiry : 31-JUL-37
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	:	Modif.of approved Mining Plan	07-NOV-14
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04-NOV-16
		MP modif under 17(3) MCR 2016	16-OCT-17
		MP modif under 17(3) MCR 2016	02-JUL-20

## 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	04 BOREHOLES	04 BOREHOLES	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency : Prism Johnsohn Ltd Expenditure : 4 Lakhs	Exploration Agency : Prism Johnsohn Ltd Expenditure : 4 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	To bring the entire area under G-2 axis	The area is under G-2 axis, out of which 44.84 Ha areas was found mineralized	
1e	Balance reserve as on 01/04/20		Balance reserve as on 01/04/2020 11.580 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The Limestone deposit of the area belongs to the Bhandar series. The lithological succession of various formations encountered in the ML area investigations based on the sub-surface data generated is as follows: Soil, Overburden Shale (Upper green shale), Limestone, Shale.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit no 03	Pit no. 03	Pit number 3 was not extended according to the approved proposal due to land availability around the pit as per submitted records. Notice of temporary discontinuance of mine has been submitted by the lease holder for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	only small quantity of top soil removed in the RY	Notice of temporary discontinuance of mine has been submitted by the lease holder for the same.
2c	Stripping ratio or ore to OB ratio	1:0.3	NIL	Production of leased mineral is not done. Notice of discontinuance of mine has been submitted
2d	Quantity of topsoil generation in m3	516380 CuM	4221 CuM	Top soil generation is very less. Notice of discontinuance of mine has been submitted due to land unavailability.
2e	Quantity of overburden generation in m3	Nil	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The production and mine development were less than approved document. Pit number 3 not extended according to the proposal mainly due to land availability of around pit. Notice of discontinuance of mine is submitted for the same.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	NIL	No production in the RY
3b	Quantity of ROM mineral production proposed	1900000 Tonnes	NIL	Notice of discontinuance of mine is submitted by lease holder under the reason of land unavailability for mine production.
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NA	NA	

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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	NIL
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	41.16 Hect.	10.1 Hect.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.3	Nil

3o Total area put in use under different heads at the end of year

i) Excavation/pits	10.1
ii) Top soil storage	0.81
iii) Waste/Ob/IB dumps	0
iv) Mineral rejects	0
v) Sub grade mineral stacks	0
vi) Mineral stacks	0
vii) Plants, buildings, Infrastructure etc.	0.44
viii) Others (Specify)- Green Belt	2
ix) Total area put in use under different heads at the end of year For which FA given	13.35
x) Total area put in use under different heads at the end of year For which FA given	62.76

3p Production of ROM mineral during the last five year period as applicable	2015-16 13,16,000	2015-16 2016-17 2017-18 2018-19 2019-20	1,30,093 3,113 30,643 NIL NIL
	19,00,000		
	19,00,000		
	19,00,000		
	19,00,000		

3q General remarks of inspecting officers on method of mining etc.	Mechanised method of opencast mining was proposed. But, no production done in last two years. Notice of discontinuance of mine is submitted due to land unavailability in the lease area.
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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	YES	Top soil stored as per proposal	
4c	Number of dumps within lease area and outside of lease area	Only top soil dump within lease area	Only top soil dump within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active and alive dumps.	NIL	NIL	
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	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			Mining activities are negligible in the RY. No waste dumping was proposed in the RY.

## 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 of mineral	Nil	No production in the RY
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)	To be used for restoration and rehabilitation	Top soil stacked in the lease area for restoration.	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling and reclamation in the RY

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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) .	NIL	NIL	
6c	afforestation done (ha) .	NIL	NIL	Area not matured for afforestation.
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	3000 nos	16000 nos	

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6f	Any other method of rehabilitation	Not proposed	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	NIL	NIL	Area not Matured for reclamation and rehabilitation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	
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	NIL	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NIL	Area not Matured for reclamation and rehabilitation

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	Area not Matured for reclamation and rehabilitation
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
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.			Area not Matured for reclamation and rehabilitation

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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 directly dispatch to cement plant.	Nil (No production in the RY)	
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	NA	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No production in the RY. Notice of discontinuance is submitted by lease holder.
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**Environment:**


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Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Top soil stored seperately.	
8b	Concurrent use or storage of topsoil	Storage of topsoil.	Top soil stored	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
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)	Not proposed in the RY	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos	Total plantation of 16000 nos saplings was done as per provided records.	

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8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	No mining activities during inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			No mining activities during the inspection. Plantation was found in and around the mining area.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly and Annual returns submitted for the RY in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer: Shri Kousik Das Geologist: Shri Gyan Prakash Pandey	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	<table border="1"> <thead> <tr> <th>Proposed</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>i) Excavation/pits</td> <td></td> </tr> <tr> <td>41.16</td> <td>10.1</td> </tr> <tr> <td>ii) Top soil storage</td> <td></td> </tr> <tr> <td>19.16</td> <td>0.81</td> </tr> <tr> <td>iii) Waste/Ob/IB dumps</td> <td>0</td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>iv) Mineral rejects</td> <td>0</td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>v) Sub grade mineral stacks</td> <td>0</td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>vi) Mineral stacks</td> <td>0</td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>vii) Plants, buildings, Infrastructure etc.</td> <td>0.44</td> </tr> <tr> <td>0.44</td> <td></td> </tr> <tr> <td>viii) Others (Specify)- Green Belt</td> <td>2</td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>ix) Total area put in use under different heads at the end of year For which FA given</td> <td>62.76</td> </tr> <tr> <td>13.35</td> <td></td> </tr> </tbody> </table>	Proposed	Actual	i) Excavation/pits		41.16	10.1	ii) Top soil storage		19.16	0.81	iii) Waste/Ob/IB dumps	0	0		iv) Mineral rejects	0	0		v) Sub grade mineral stacks	0	0		vi) Mineral stacks	0	0		vii) Plants, buildings, Infrastructure etc.	0.44	0.44		viii) Others (Specify)- Green Belt	2	2		ix) Total area put in use under different heads at the end of year For which FA given	62.76	13.35	
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9d	Scrutiny of Annual return on afforestation	Yes	1000 nos																																						
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA																																						
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL																																						
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NA	NA																																						
9h	Scrutiny of Annual return on fixed assets	YES	As per AR( as per records shown during inspection)																																						
9k	Scrutiny of Annual return on mining machineries	YES	Mine was not working during the inspection. No machnaries found in the lease area.																																						

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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

**Date :**

**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines