

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-270

Mine code : 38MPR35137

- (i) Name of the Inspecting : **D014**) **R.R.DONGRE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 14/11/2017
- (v) Prev.inspection date : 26/08/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRISM CEMENT(253.326 HA)**
- (b) **Registration NO.** :
- (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 : ukdas@prismcement.vsnl.com
Phone : 07672-75301, 75302
- (f) Police Station :
- (g) First opening date :
- (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 : 27/09/2016
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	09/08/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	11/05/2006
		Modif.approved Mining Scheme	19/09/2008
		Mining Scheme rule 12 MCDR1988	21/09/2011
		Modif.approved Mining Scheme	05/09/2012
		MP modif under MCR 1960	13/04/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	14 no of the boreholes were backlog.	same were drilled in the next year	
1b	Exploration over lease area for geological axis 1 or 2	Particular UNFC Code Qty in Million tonnes Reserves 111 21.52 121 122 Resources 211 221 222 13.14	Particular UNFC Code Qty in Million tonnes Reserves 111 21.52 121 122 Resources 211 221 222 13.14	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	self	self	
1d	Balance area to be explored to bring Geological axis in 1 or 2	complete area is explored	nil due to above	
1e	Balance reserve as on 01/04/20	As on 01.04.2017 Particular UNFC Code Qty in Million tonnes Balanace reserve as on 01/04/17 111 19.249 121 122 Balanace resource as on 01/04/17 211 13.14	As on 01.04.2017 Particular UNFC Code Qty in Million tonnes Balanace reserve as on 01/04/17 111 19.249 121 122 Balanace resource as on 01/04/17 211 13.14	
1f	General remarks of inspecting officers on geology, exploration etc	nil	exploration was carried out as per the MEMV rules 2016	exploration was carried out as per the MEMV rules 2016

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No. of pits proposed for development 4	No. of pits for development 4	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil-1 bench(0.5-2m) OB-1 bench (3-4m) L1-(6m) L2 (4-6m) L3(4 meter)	Topsoil-1 bench(0.5-2m) OB-1 bench (3-4m) L1-(6m) L2 (4-6m) L3(4 meter)	
2c	Stripping ratio or ore to OB ratio	Ore to OB ratio for the mine during the respective year 2012-13 1:0.61 2013-14 1:0.40 2014-15 1:0.49 2015-16 1:0.19 2016-17 1:0.35	Ore to OB ratio for the mine during the respective year 2012-13 1:0.61 2013-14 1:0.40 2014-15 1:0.49 2015-16 1:0.19 2016-17 1:0.35	
2d	Quantity of topsoil generation in m3	Quantity of topsoil removed in m3 2012-13 114150 2013-14 116550 2014-15 132066 2015-16 103500 2016-17 343506	Quantity of topsoil removed in m3 2012-13 113177 2013-14 112679 2014-15 105959 2015-16 127161 2016-17 343373 2013-14 2014-15 2015-16 2016-17	

2e	Quantity of overburden generation in m3	Quantity of Overburden removed in m3	Quantity of Overburden removed in m3
		2012-13 378700	2012-13 378010.4
		2012-13 378700	2013-14 312400 272791.6
		2013-14 312400	2014-15 371782 360911.2
		2014-15 371782	2015-16 293600 60184
		2015-16 293600	2016-17 76575 38102
		2016-17 76575	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	nil	there is second band of the limestone after the 10 to 15 m of the shale , lease holder was working the same at the time of inspection which was proposed for the 2018-19 and not for the current year.howvver considering the mineral conservation it was encouraged but lesee was asked to modify the mining plan

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4	4	
3b	Quantity of ROM mineral production proposed	2012-13 3000130 2013-14 3000150 2014-15 3000150 2015-16 3000050 2016-17 3000005	2012-13 3000130 1860677 2013-14 3000150 2174297 2014-15 3000150 2174343 2015-16 3000050 1820599 2016-17 3000005 2166122	
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	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	mechanised	mechanised
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
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	Excavation/pits 239.57 Top soil storage 2.33 Waste/Ob/IB dumps 2.18 Mineral rejects 0 Sub grade mineral stacks 0 Mineral stacks 0 Plants, buildings, Infrastructure etc. 0.107 Others (Roads) 3.15	Excavation/pits 239.57 Top soil storage 2.33 Waste/Ob/IB dumps 2.18 Mineral rejects 0 Sub grade mineral stacks 0 Mineral stacks 0 Plants, buildings, Infrastructure etc. 0.107 Others (Roads) 3.15
3n	Ore to OB ratio for the pit/mine during the year.	2012-13 1:0.61 2013-14 1:0.40 2014-15 1:0.49 2015-16 1:0.19 2016-17 1:0.35	2012-13 1:0.61 2013-14 1:0.40 2014-15 1:0.49 2015-16 1:0.19 2016-17 1:0.35

30	Total area put in use under different heads at the end of year	Total area covered under (Land use pattern)/Land put to use under various heads Proposal in latest approved doc Actual as on 31.03.2017 Excavation/pits 239.57 208.64 Top soil storage 2.33 4.27 Waste/Ob/IB dumps 2.18 2.38 Mineral rejects 0 0 Sub grade mineral stacks 0 0 Mineral stacks 0 0 Plants, buildings, Infrastructure etc. 0.107 0.107 Others (Roads) 3.15 3.15 Total area put in use under different heads at the end of year For which FA given 247.337 218.547	Total area covered under (Land use pattern)/Land put to use under various heads Proposal in latest approved doc Actual as on 31.03.2017 Excavation/pits 239.57 208.64 Top soil storage 2.33 4.27 Waste/Ob/IB dumps 2.18 2.38 Mineral rejects 0 0 Sub grade mineral stacks 0 0 Mineral stacks 0 0 Plants, buildings, Infrastructure etc. 0.107 0.107 Others (Roads) 3.15 3.15 Total area put in use under different heads at the end of year For which FA given 247.337 218.547
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3p	Production of ROM mineral during the last five year period as applicable	2012-13 3000130 1860677 2013-14 3000150 2174297 2014-15 3000150 2174343 2015-16 3000050 1820599 2016-17 3000005 2166122	2012-13 3000130 1860677 2013-14 3000150 2174297 2014-15 3000150 2174343 2015-16 3000050 1820599 2016-17 3000005 2166122
3q	General remarks of inspecting officers on method of mining etc.	the mine is worked systematically except change in site due to the exploitation of the second band no adverse thing noticed.	

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	as per the proposal	as per the proposal within ML	
4c	Number of dumps within lease area and outside of lease area	Active Dumps 1 Inactive dumps 3	Active Dumps 1 Inactive dumps 3 within Ml	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	yes	yes	

4e	Number of active and alive dumps.	Active Dumps 1 Inactive dumps 3	Active Dumps 1 Inactive dumps 3
4f	Number of dead dumps.	NA	NA
4g	Number of dumps established.	na	na
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	nil
4i	Length of Retaining wall or garland drain all along dumps	garland drains made	it is about the 220 m
4j	Number of settling ponds	one	one
4k	Specific comments of inspecting officer on waste dump management	Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .	Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .
		Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a Status of part Due to Due to existance of II
 or full existance of nd Band Limestone the
 extraction of II nd Band Bacfilling operation has
 mineral from Limestone the been stoped .
 mined out area Bacfilling
 before starting operation has
 backfilling. been stoped .

Due to
existence of
II nd Band
Limestone the
Bacfilling
operation has
been stoped .

Due to
existence of
II nd Band
Limestone the
Bacfilling
operation has
been stoped .

5b	Area under backfilling of mined out area	Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .	Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .
		Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .	
		Due to existance of II nd Band Limestone the Bacfilling operation has been stoped .	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	na
5d	Total area fully reclaimed and rehabilitated	na	na
5e	General remarks of inspecting officers on backfilling and reclamation etc.	there is existance of the second band which is restricting the backfilling.	there is existance of the second band which is restricting the backfilling.

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) .	nil	nil	
6c	afforestation done (ha).	Afforestation 10000 Area rehabilitated (ha) 6.67	Afforestation 10000 Area rehabilitated (ha) 6.67	
6d	No. of saplings planted during the year	Afforestation 10000 Area rehabilitated (ha) 6.67	Afforestation 10000 Area rehabilitated (ha) 6.67	
6e	Cumulative no .of plants		10000 no	
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 (Lx B x D	na	na	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	na	na	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	na	na
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na
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	na	na
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	na	na
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)	done as per the EMP	done as per the EMP

6q General remarks nil work as envisaged in the
of inspecting officers on PMCP PMCP is being followed
compliance and progressive
closure
operations etc.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
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	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	
8b	Concurrent use or storage of topsoil	yes	yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	as per proposal	as per proposal	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	na
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	done as per the guidelines	done as per the guidelines
8g	Survival rate	95%	95%
8h	Water sprinkling on roads to control airborne dust	done as per proposal	done as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	lease holder is taking all possible precaution for enviroment.	drilling is carried without dust extractor for which violations were pointed out

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes submitted	yes submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not appointed	violation pointed for that
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	matching with PMCP	Total area covered under (Land use pattern)/Land put to use under various heads Proposal in latest approved doc Excavation/pits 239.57 Top soil storage 2.33 Waste/Ob/IB dumps 2.18 Mineral rejects 0 Sub grade mineral stacks 0 Mineral stacks 0 Plants, buildings, Infrastructure etc. 0.107 Others (Roads) 3.15 Total area put in use under different heads at the end of year For which FA given 247.337
9d	Scrutiny of Annual return on afforestation	yes given	yes given
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	Given correctly	given correctly
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	captive mines	due to above not checked
9h	Scrutiny of Annual return on fixed assets	not given correctly	asked them to furnish

9k Scrutiny of given found correctly
Annual return on
mining
machineries

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
MCDR17 Rule 11(1)	27/12/2017		MCDR17 Rule 11(1)	27/12/2017	23/05/2018
MCDR17 Rule 33	27/12/2017		MCDR17 Rule 33	27/12/2017	23/05/2018
MCDR17 Rule 40	27/12/2017		MCDR17 Rule 40	27/12/2017	23/05/2018
Rule 47	27/12/2017		Rule 47	27/12/2017	23/05/2018
MCDR17 Rule 55(1) (3)	27/12/2017		MCDR17 Rule 55(1)	27/12/2017	23/05/2018

Date :

(R. R. DONGRE)

Indian Bureau of Mines