

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-270

Mine code : 38MPR35137

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh S S Ray (Mine Manager), Sh S K Upadhaya (Geologist)
Official with
Designation
- (iv) Date of Inspection : 20-SEP-19
- (v) Prev.inspection date : 16-FEB-19

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 : 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	No backlog of previous year found as per records.
1b	Exploration over lease area for geological axis 1 or 2	12 Core Boreholes	06 Core Boreholes	Violation for the lagging in exploration has given.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Prism Jonson Ltd MRM and 14.4 Lakh	Prism Jonson Ltd MRM and 7.2 Lakh	Violation pointed out for lagging in exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area to be explored in G-1	Exploration proposed in the year 2018-19 is not completed	Violation pointed out for the same.
1e	Balance reserve as on 01/04/20	25.73 Million tonnes	26.242 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Violation pointed out for lagging in exploration in RY 2018-19.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Second Band of the lease	Second Band of the lease	Lower band of limestone in the lease is being developed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB- 3 bench (6-8m), LS1- (6m), LS2- (4m)	OB- 1 bench (1-4m), LS1- (6m), LS2- (4m)	
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 has been given for the same

2d	Quantity of topsoil generation in m3	162891 m3	16837 m3	Top soil removal is less than the proposal. Violation has been given for the same.
2e	Quantity of overburden generation in m3	2067843 m3	829504 m3	OB removal is less than the proposal. Violation has been given for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Top soil and overburden removal for development of mine was found lagging from the proposal . Thus, mine development was not done as per the approved proposals. Violation for the same has been given.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One Pit	
3b	Quantity of ROM mineral production proposed	3000000 MT	2173643 MT	
3c	Recovery of sailable/usable mineral from ROM production	ROM is to be dispatched for captive use	ROM is being dispatched for captive use	
3d	Quantity of mineral reject generation	No Mineral rejects proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

3f	Quantity of sub grade mineral generation.	No Mineral subgrades proposed	NA	
3g	Grade of sub grade mineral generation	No Mineral sub grades proposed	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.	No	No	
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	
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	Ore to OB ratio is not as per proposal due to less development. Violation has been given for the same

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

Excavation/pits	208.1
s	212.73
Top soil storage	4.17
Waste/Ob/IB dumps	5.79
Mineral rejects	0
Sub grade mineral stacks	0
Mineral stacks	0
Plants, buildings, Infrastructure etc.	1.107
Others (Roads)	3.15
Total area put in use under different heads at the end of year For which FA given	221.317
Plants, buildings, Infrastructure etc.	2.107
Others (Roads)	3.15
Total area put in use under different heads at the end of year For which FA given	227.947

3p Production of ROM mineral during the last five year period as applicable

2013-14	2174297
2014-15	2174343
2015-16	2174591
2016-17	2166122
2017-18	2174813
2018-19	2173643
2016-17	3000000
2017-18	3000000
2018-19	3000000

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

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	As per proposal
4c	Number of dumps within lease area and outside of lease area	03 (02 Soil Dumps and 01 Waste Dump)	03 (02 Soil Dumps and 01 Waste Dump)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	With in UPL
4e	Number of active and alive dumps.	03 Temprory dumps	03 Temprory dumps
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	NA	NA
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	No proposal	Not available
4k	Specific comments of inspecting officer on waste dump management		

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.	it was proposed to reclaim 3.22 Ha area of pit no. IV by backfilleing during the year 2018-19.	During inspection, it was observed that the mined out area was not backfilled as per proposal.	violation has been pointed out for the same
5b	Area under backfilling of mined out area	It was proposed to reclaim 3.22 Ha area of pit no. IV by backfilleing during the year 2018-19.	During inspection, it was observed that the mined out area was not backfilled as per proposal.	Violation pointed out
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.			

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	
6b	Area available for rehabilitation (ha) .	It was proposed to reclaim 3.22 Ha area of pit no. IV by backfilleing during the year 2018-19.	During inspection, it was observed that the mined out area was not backfilled as per proposal.	Violation pointed out for the same.

6c	afforestation done (ha).	NA	NA
6d	No. of saplings planted during the year	6000	6000 (approx.)
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 done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed	Not done
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not done

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	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)	i) Air Monthly ii) Water quarterly iii) Noise monthly iv) Ground Vibration daily v) Soil yearly vi) Surface subsidence NA vii) Acid Mine Drainage NA	i) Air Monthly With in the permissible limits ii) Water quarterly With in the permissible limits iii) Noise monthly With in the permissible limits iv) Ground Vibration daily With in the permissible limits v) Soil yearly With in the permissible limits vi) Surface subsidence NA vii) Acid Mine Drainage NA
6q	General remarks of inspecting officers on PMCP 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	As per proposal 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.	Not proposed	Not done
7c	Different grade of mineral sorted out at mines.	Not proposed	Not done
7d	Any beneficiation process at mines .	NA	NA
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)	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	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Not done during 2018-19	Violation given for the same.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Not done in 2018-19	Violation given for the same
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5020 Nos. of sapling proposed to be planted	6000 Nos.	
8g	Survival rate	80% proposed	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Violation pointed out for restoring the land, reclamation and rehabilitation.

Compliance of Rule 45:

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

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/pit s 212.73 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. 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	found in order.
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	NA	NA

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	as per AR
9h	Scrutiny of Annual return on fixed assets	Yes	as per AR
9k	Scrutiny of Annual return on mining machineries	Yes	as per AR

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)	18-OCT-19			
MCDR17	Rule 33	18-OCT-19			
MCDR17	Rule 46(c)	18-OCT-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines