

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-287

Mine code : 38MPR35270

- (i) Name of the Inspecting : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh S S Ray (Mine Manager), Sh. S. K. Upadhya (Geologist)
Official with
Designation
- (iv) Date of Inspection : 20-SEP-19
- (v) Prev. inspection date : 17-FEB-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRISM CEMENT 66.434HA**
- (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 :
Taluka :
Post office :
Pin Code :
FAX No. : (O) 07675 - 227514 (W) 275:
E-mail : ukdas@prismcement.vsnl.com
Phone : 07672-75301, 75302
- (f) Police Station : Rampur Baghelan
- (g) First opening date : 01-FEB-02
- (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 : MPR2251
(b) Lease area : 66.43
(c) Period of lease : 20
(d) Date of Expiry : 26-NOV-21
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 11-MAY-06
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 31-MAY-11
Mining Scheme rule 12 MCDR1988 01-DEC-16
MP review under 17(1) MCR 2016 27-APR-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed in review year	No Exploration in the financial year 2018-19	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	No exploration done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Geological axis at G-1	Geological axis at G-1	
1e	Balance reserve as on 01/04/20	111 2.932 Million tonnes 221 5.089 Million tonnes	111 tonnes 221 tonnes	2.932 Million 5.089 Million
1f	General remarks of inspecting officers on geology, exploration etc			Exploration of the lease area has been done in G-1 axis as per provided records.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	-1951N to -1457N & 0088E to 0274E in the year 2018-19	Partially deviated from the proposed location.	Violation pointed out for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB- 1 bench (1-4m), LS1- (6m), LS2- (4m)	As per proposal	

2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.07	Development lagging from the proposed as per approved document. Violation pointed out for the same.
2d	Quantity of topsoil generation in m3	54592 m3	20860 m3	Violation pointed out for the same.
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			Development in the pit was not found as per proposal due to less removal of top soil in the RY 2018-19. Violation Pointed out for the same.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit at Mankahari was proposed for development	One pit developed at Mankahari with in the proposed area. But, development was legging due to less removal of top soil.	Violation pointed out for the same.
3b	Quantity of ROM mineral production proposed	300000 MT	299625 MT	
3c	Recovery of sailable/usable mineral from ROM production	ROM is completly usable above threshold limit.	ROM is completly usable above threshold limit.	
3d	Quantity of mineral reject generation	Not Available	Not available	

3e	Grade of mineral rejects generation and threshold value declared.	No mineral rejects proposed	No rejects as per records.	
3f	Quantity of sub grade mineral generation.	Not proposed	No Sub grade mineral as per records available.	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	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	Yes	
3m	Total area covered under excavation/pits	494x184 m ²	417 x 170 m ²	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.07	Ore to OB ratio decreased due to less removal of top soil. Violation pointed out for the same.

3o	Total area put in use under different heads at the end of year	36.65 Ha	36.65 Ha		Area put to use is within the limit of FA.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 300000 2015-16 300000 2016-17 300000 2017-18 300000 2018-19 300000	2014-15 298837 2015-16 299724 2016-17 292120 2017-18 299484 2018-19 299625		Production is within limit as proposed in last five years
3q	General remarks of inspecting officers on method of mining etc.				Production has done as per proposal but horizontal development is less than the proposal. Violation pointed out for the same.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The top soil proposed to be used for restoration and rehabilitation	Used for backfilling as per proposal (No topsoil stack found during inspection)	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	NA	
4c	Number of dumps within lease area and outside of lease area	One	One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	Within UPL	
4e	Number of active and alive dumps.	Not proposed	NA	
4f	Number of dead dumps.	One Dead dump with in UPL	One dead dump.	

4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed in the RY 2018-19	NA	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed in the RY 2018-19	NA	
4j	Number of settling ponds	Not proposed in RY 2018-19	NA	
4k	Specific comments of inspecting officer on waste dump management			Only one dead dump observed during inspection.

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.	full extraction of mineral	full extraction of mineral	
5b	Area under backfilling of mined out area	0.4 Ha area under backfilling of mined out area.	0.35 Ha area under backfilling of mined out area.	Violation pointed out for the same.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be utilise in plantation over backfilled area	Utilised in plantation over backfilled area	
5d	Total area fully reclaimed and rehabilitated	12.5 Ha	12.33 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).	Annual report to be submitted on time and correctly.	During scrutiny of the office records, it has been observed that the yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2018-19	Violation pointed out for the same.
6b	Area available for rehabilitation (ha) .	Not proposed in the RY 2018-19	Nil	
6c	afforestation done (ha).	01 Ha	01 Ha	As per provided records at mine site during inspection
6d	No. of saplings planted during the year	1000 Nos	1000 Nos	As per mine site records.
6e	Cumulative no .of plants	21556 Nos	21556 Nos	
6f	Any other method of rehabilitation	Plantation of local spices	Local spices planted	
6g	Cost incurred on watch and care during the year	Not proposed	Rs. 160000 /- per annum	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	304x100x8 m3	304x100x8 m3	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Proposed in approved document.	Compliance report not submitted at IBM office.	Violation pointed out for the same.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Proposed	Not submitted at IBM office	Violation pointed out for the same.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Report not submitted at IBM office. Violation pointed out for the same.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	Violation pointed out for the same.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	500 Saplings	1000 Saplings	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	01 Ha	01 Ha	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral to be dispatched to plant for captive use.	ROM mineral dispatched to plant for captive use.	

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 of ROM where required	Screening of ROM where required	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is completely used as per records available during inspection.

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	To be utilise in plantation over backfilled area	Utilised in plantation over backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of waste after full excavation of the mineral	Backfilling of waste after full excavation of the mineral	

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)	Yes	Yes	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Backfilling was on progress and plantation was done on the backfilled area in the previous years.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR to be submitted with in stipulated time.	AR submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager appointed.	Sh. Shashi Shekhar Ray - Mine Manager Sh. Laxmikant Kaushik - Mining Engineer Sh. Sunil Kumar Upadhyay - Mine Geologist	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavation/pit s 28.89 Top soil storage 0.05 Waste/Ob/IB dumps 4.40 Mineral rejects 0 Sub grade mineral stacks 0 Mineral stacks 0 Plants, buildings, Infrastructure etc. 4.35 Others (Roads) 2.00 Total area put in use under different heads at the end of year For which FA given 36.65	Found in order as per provided records.
9d	Scrutiny of Annual return on afforestation	provided	found in AR
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Provided	found in order as per records.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	found in order as per provided records
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value - Nil (captive use) Ex Mine Price- Rs 219.41/ Ton Production Cost- Rs 219.41/ Ton	The mineral is being used for captive use.

9h	Scrutiny of Annual return on fixed assets	Informaton of fixed assets has been provided in the AR	the values are found in order as per provided records.
9k	Scrutiny of Annual return on mining machineries	Details of Mining M/C has been provided in the AR	the details are found in order as per provided records.

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)	18-OCT-19			
MCDR17	Rule 33	18-OCT-19			
MCDR17	Rule 26(2)	18-OCT-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines