

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LST-185 (772.067 ha)

Mine code : 38MPR35287

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 12-FEB-21
- (v) Prev.inspection date : 19-SEP-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRISM CEMENT (772.067 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 & SIJAHATA
Taluka : RAMPUR BAGHELAN
Post office : BATHIYA
Pin Code : 485111
FAX No. : (O) 07675 - 227514 (W) 275:
E-mail : amit.biswas@prismjohnson.i
Phone : (O) 07675 - 504403
- (f) Police Station : Kolgawan
- (g) First opening date : 25-MAY-85
- (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 : MPR2361
- (b) Lease area : 772.07
- (c) Period of lease : 40
- (d) Date of Expiry : 24-MAR-25
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 06-APR-15
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 31-MAR-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	32	12	
1b	Exploration over lease area for geological axis 1 or 2	37	0	Area already in G2 category as per MEMC rule, 2015
1c	Exploration Agencies and Expenditure in lakh rupees during the year	in house	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2		435 hect in G2,337.067 non mineralized.	
1e	Balance reserve as on 01/04/20	122- 57295447,221- 28560000		Less work done.The area has two bands o limestone . upper Grey Limestone and IInd band limestone,covered with waste such as high magnesia limestone, silt stone,nodular shale,overburden soil.drilling is not done as proposed.violation pointed out.limestone deposit belongs to bhandar series of vindhayan super group.

1f	General remarks of inspecting officers on geology, exploration etc	no work in drilling is done in year..The area has two bands of limestone upper Grey Limestone and IInd band limestone, covered with such as high magnesia silt stone, nodular shales.etc.violation is pointed out. (abbreviation used in report: np/NP: no proposals made., na/NA:Not Aplicable)
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NewPit ,Eastern Block,Sijahata	NewPit ,Eastern Block,Sijahata	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	ob and minerals.	yes done	
2c	Stripping ratio or ore to OB ratio	1:0.13 T/M3	1:0.122 T/m3	
2d	Quantity of topsoil generation in m3	155155M3	59788M3	
2e	Quantity of overburden generation in m3	747750M3	41363M3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development is less.Mines was to develop in two more locations .Work is done in two location only EB-1pit and (2200E-2900E,600N-200N) pit is not formed in these two location (-1000N-1600N;2800E-3300E) and ,(600N-180N,3200E-3400E).violation pointed out.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4	3	
3b	Quantity of ROM mineral production proposed	3000000T	824932T	
3c	Recovery of sailable/usable mineral from ROM production	NP	NP	ROM Used.
3d	Quantity of mineral reject generation	NP	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.	No Proposal	na	
3j	Provision of drilling and blasting in mineral benches	YES	YES	115 mm Diameter
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	163 hect	128 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.13 T/M3	1:.122 T/m3	
3o	Total area put in use under different heads at the end of year	195.43	149.64	

3p	Production of ROM mineral during the last five year period as applicable	2015 2016 3000000 2016 2017 2016 2017 3000000 2017 2018 3000000 2018 2019 3000000 2019-20 3000000	2015 2016 824875 2016 2017 823177 2017 2018 824850 2018 2019 824775 2019 2020 824932		production is less in all years.
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3q	General remarks of inspecting officers on method of mining etc.				Mechanised mining is done by shovel and tippers. BACK HOE 2.500 CUM 3 and 25 ton tipper are used. 7-8 mtr bench height is made. violation is given for achieving very low volumes of ore and development.
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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)	Backfilling for waste and soil	Done	No Mineral Reject
4b	Location of topsoil, OB and mineral reject dumps	soil dumpsS1- 300E to 400E, 80-220N, S-2410- 400E, 80-220N, S-2410- 880E, 210-350N, S3-920E- 880E, 210-350N, S3-920E- 10101E , 320N to 360N, S4-1060E- 1220E, -60N to 320N	soil dumpsS1- 300E to 400E, 80-220N, S-2410- 880E, 210-350N, S3-920E- 10101E , 320N to 360N, S4-1060E- 1220E, -60N to 320N	these are old dumps from previous yeras. stabalized.

4c	Number of dumps within lease area and outside of lease area	04	04	04 old dumps within lease.
4e	Number of active and alive dumps.	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	old dumps are stabalized.
4i	Length of Retaining wall or garland drain all along dumps	---	---	no proposal for new dumps .hence not applicable.
4j	Number of settling ponds	--	--	
4k	Specific comments of inspecting officer on waste dump management			. no proposal for new dumping in review year .backfilling is proposed.

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	YES	
5b	Area under backfilling of mined out area	2.64 Ha	1 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	YES	YES	Concurrent
5d	Total area fully reclaimed and rehabilitated	nil	nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	backfilling is done on lesser area.the quantum of mining ,waste generation is less.violation pointed out.
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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).		not submitted	violation pointed out.
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA		NO PROPOSAL
6d	No. of saplings planted during the year	np	na	no proposal for mined out benches
6e	Cumulative no .of plants	NA	na	no proposal for mined benches
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	no proposal for mined out benches
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		61.65	pit area available.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.64	1 hect	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	2.64 ha	1 hect	violation issued
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	not proposed	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NP	NA	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	np	na	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	np	na	

6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	YES done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is done on old dumps Nos. on old dumps/boundaries/n on mineralized area.lot of area in mines is backfilled and plantatation has been done on dumps/backfilled area.(approx 28 hectares).but backfilling and plantatation on it for year is not done upto the full extent proposal.violation issued.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	
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	ROM is sent to plant
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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	Plantation, concurrent use	Plantation, concurrent use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NP	NP	backfilling with simetaneous top soil spread.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Backfilling	
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)	nil	addittional :5000 plants	

8g	Survival rate	70%	60%	
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			Lot of trees & green belt is seen in mines. reservoir has been made in mines.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		YES submitted.	YES
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Manager - sushant Ray, ME-Vinod Giri Geologist-Amit Biswas	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Pit-128 hect (35- Rehabilitation/reclamati on) Dump-4.7 Infra-5.520	Within FA Limit 183 hect.
9d	Scrutiny of Annual return on afforestation	Plantation- 19816 Nos.		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil, no rejects as per plan		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	no stocks	No stocks NIL	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	No sale sent to factory.Ex-mine price.- 233 RS	
9h	Scrutiny of Annual return on fixed assets	FA at end of year=105,85,66,839	Fig is Given.
9k	Scrutiny of Annual return on mining machineries	Backhole 2.5 M3-3, Backhole-2.1 M3-1 Dumper 25 T-20 Drill-110mm-1 Dozer Explosive Van etc.	list of machinery is given.

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)	26-APR-21			
MCDR17	Rule 26(2)	26-APR-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines