

**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 : **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 Uapdhaya (Geologist)
Official with
Designation
- (iv) Date of Inspection : 19-SEP-19
- (v) Prev.inspection date : 15-FEB-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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	it was proposed to drill 32 nos. of exploratory bore holes in the grid interval of 100 m x100 m in the year 2018-19	no exploratory drilling has been done in the year 2018-19 as per approved proposals.	Violation pointed out for the same
1b	Exploration over lease area for geological axis 1 or 2	32 nos. of exploratory bore holes proposed in the grid interval of 100 m x100 m in the year 2018-19	no exploratory drilling has been done in the year 2018-19	Violation pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploraiton to be done by Departmental drilling machine.	No exploration in the RY 2018-19	
1e	Balance reserve as on 01/04/20	Reserves 111 50.570 Million tonnes Resources 211 28.56 Million tonnes	Reserves 111 50.570 Million tonnes Resources 211 28.56 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration has been done in the mining lease area in 200x200 m grid pattern. Proposed exploration in the grid 100x100 m not done in the year 2018-19. violation pointed out for the same.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Four pits as NP-2, EB-1, SJ-2, SJ-3	Three pits as NP-2, EB-1,, SJ-3	Violation for the same is pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB- 2 bench (1-4m), LS1- (6m), LS2- (6m)	Benches developed as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:0.7	1:0.23	Violation pointed out for the same.
2d	Quantity of topsoil generation in m3	55722 m3	17340 m3	Top soil generntation is less than the proposed target. Violation pointed out for the same.
2e	Quantity of overburden generation in m3	166380 m3	63600 m3	OB generation is less than the proposed quantity. Violation pointed out for the same.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	four (04) pits were proposed to develop in the year 2018-19 and it was proposed to remove 55722 m3 quantity of top soil and 166380 m3 quantity of overburden for development of mine in the year 2018-19. But, it was observed during inspection that only three (03) pits were developed and only 17340 m3 quantity of top soil and 63600 m3 quantity of overburden was removed for development of mine in the year 2018-19. The mine development was lagging and violation pointed out for the same.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	04	03	Violation pointed out for the same.
3b	Quantity of ROM mineral production proposed	3000000 Te	824775 Te	
3c	Recovery of sailable/usable mineral from ROM production	complete ROM is to be used at captive cement plant	as per proposal	
3d	Quantity of mineral reject generation	Not proposed	No mineral rejects reported	

3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	No mineral reject reported.	
3f	Quantity of sub grade mineral generation.	Not Proposed	No sub grade mineral reported.	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No porposed	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	Yes	
3m	Total area covered under excavation/pits	173.33 Ha	136.8 Ha	Development lagging from the proposal. Violation pointed out for the same.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.7	1:0.23	Development lagging from the proposal. Violation pointed out for the same.

3o	Total area put in use under different heads at the end of year	183.57 Ha	147.04 Ha	Total put to use area is less than the proposed area due to less development . Violation pointed out for the same.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 3004500 2015-16 3000000 2016-17 3000000 2017-18 3000000 2018-19 3000000	2014-15 776925 2015-16 824875 2016-17 823177 2017-18 824850 2018-19 824775	
3q	General remarks of inspecting officers on method of mining etc.			Development is lagging from the proposal of approved document. 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 is proposed to be used for restoration and rehabilitation	used for back filling as per provided records during inspection.	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	No active dumps found during inspection.	
4c	Number of dumps within lease area and outside of lease area	Not proposed	No dumps found.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	

4e	Number of active and alive dumps.	Not proposed	NA	
4f	Number of dead dumps.	Not in proposal	NA	
4g	Number of dumps established.	Not proposed	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	Not proposed	NA	
4k	Specific comments of inspecting officer on waste dump management			Top soil and OB is being used for refilling of excavated area as per provided records. No dumps found during site 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	Full extration	
5b	Area under backfilling of mined out area	2.5 Ha	2.0 Ha	Violation pointed out for the same.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be utilised in plantation over backfilled area	utilised in plantation over backfilled area	

5d	Total area fully reclaimed and rehabilitated	2.5 Ha	2.0 Ha back filled.	Violation pointed out for the same.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			it was proposed to reclaim 2.5 Ha area of New pit - 01 by backfilling during the year 2018-19. During inspection, it was observed that only about 2.0 Ha area of the mined out area was backfilled. Violation pointed out for the same.

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).	Annual report to be submitted within stipulated time.	Not submitted	Violation pointed out for the same.
6b	Area available for rehabilitation (ha) .	2.5 Ha	2.0 Ha area back filled. Information received during inspection.	Violation pointed out for the same.
6c	afforestation done (ha).	1.0 Ha	7.0 Ha (Not in the backfilled area proposed for rehabilitation). Information received during inspection.	
6d	No. of saplings planted during the year	1100	7000	
6e	Cumulative no .of plants	3000	10000	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Not proposed	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	2.5 Ha	Not done	Violaiton pointed out for the same.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	
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	1 Ha	7 Ha	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 Ha	7 Ha	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			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.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct dipatch for captive use at cement plant.	Direct dipatch as per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not done	
7d	Any beneficiation process at mines	Not proposed	No	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being used directly in captive cement plant as per provided records.

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 utilised in plantation over backfilled area.	utilised in plantation over backfilled area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not available.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of waste after full extration of ore.	Backfilling of waste after full extration of ore.	
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	Yes	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Backfilling was not completed as per proposal and plantation over backfilled area is also pending. Violation pointed out for the same.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR from Apr-18 to Mar-19 and AR of 2018-19 is to be submitted	MR from Apr-18 to Mar-19 and AR of 2018-19 submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Shashi Shekhar Ray, Mines Manager Shri Vinod Giri - Mining Engineer Shri Sunil Kumar Upadhyay - Mine Geologist	Details provided.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavation/pit s 173.33 Top soil storage 4.72 Waste/Ob/IB dumps 0 Mineral rejects 0 Sub grade mineral stacks 0 Mineral stacks 0 Plants, buildings, Infrastructure etc. 0.12 Others (Roads) 5.4	Excavation/pits 136.8 Top soil storage 4.72 Waste/Ob/IB dumps 0 Mineral rejects 0 Sub grade mineral stacks 0 Mineral stacks 0 Plants, buildings, Infrastructure etc. 0.12 Others (Roads) 5.4	

9d	Scrutiny of Annual return on afforestation	1 ha	7 ha
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	Not given in AR
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not given	Not found
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	found in order.
9h	Scrutiny of Annual return on fixed assets	Provided in AR	found in order as per provided records.
9k	Scrutiny of Annual return on mining machineries	Yes	Machineries details found in order as per provided records.

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 26(2)	18-OCT-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines