

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LST-338

Mine code : 38MPR35313

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh K Das (Mine Manager), C.S Pandit (Mining Engineer)
Official with
Designation
- (iv) Date of Inspection : 05-NOV-19
- (v) Prev.inspection date : 18-JAN-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRISM CEMENT, BAGHAI, 512.**
- (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 : BAGHAI
Taluka : RAMPUR BAGHALAN
Post office : BAIRIHA
Pin Code : 485111
FAX No. : 07672-275303
E-mail : kousik.das@prismjohnson.in
Phone : 07672-275301-2
- (f) Police Station : Rampur Baghelan
- (g) First opening date : 12-DEC-11
- (h) Weekly day of rest : SUN
2. Address for : M/S PRISM CEMENT LIMITED
correspondance : RAJDEEP REWA ROAD
SATNA, MP 485001
3. (a) Lease Number : MPR2702
- (b) Lease area : 512.32
- (c) Period of lease : 30
- (d) Date of Expiry : 27-FEB-41
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	:	Modif.of approved Mining Plan	13-JUL-12
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	29-FEB-16
	:	MP modif under 17(3) MCR 2016	14-DEC-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for geological axis 1 or 2	Area to be explored in G1	Area explored in G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Nil	
1e	Balance reserve as on 01/04/20	111 34.596 Million Tones 211 11.56 Million Tones	111 34.596 Million Tones 211 11.56 Million Tones	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not proposed in the year 2018-19.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to develop new Pit no. 01 between the grid coordinates 1411 E to 1712E & 1500 N to 1838 N and pit no. 2 between the grid coordinates 293E to 755 E & 1890 N to 2180 N.	Development was done in Pit no 1 between the coordinates 1015 E to 1690E & 1595 N to 1810 N and pit no. 2 between the coordinates 400 E to 712 E & 1900 N to 2150 N.	Violation pointed out for the same.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	New pit 2- Topsoil (1), OB (2), Mineral (2) New Pit 3- Topsoil (1), OB (1), Mineral (2)	benches found more than the proposed in approved document between grid coordinates 1100 E to 1500 E & 1600 N to 1800 N, of the lease and it was also observed that width of the benches found very less than the height of the benches between grid coordinates 1100 E to 1500 E & 1600 N to 1800 N.	Violation pointed out for the same.
2c	Stripping ratio or ore to OB ratio	1 : 0.781	1 : 0.691	Development is lagging from the proposed development in year 2018-19. Violation pointed out for the same.
2d	Quantity of topsoil generation in m3	41,500 m3	39,100 m3	
2e	Quantity of overburden generation in m3	1521015 m3	859185 m3 (56.5 %) .	Violation pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine-development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out for the same.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	2,000,000 MT	1,299,443 MT	

3c	Recovery of sailable/usable mineral from ROM production	Complete ROM to be dispatched at captive plant	ROM dispatched to captive plant as per provided records.
3d	Quantity of mineral reject generation	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL
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.	Not proposed	Not done
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	separate benches of less than 6m height shall be maintained in the mine and bench widths at the mine shall not be less than the height of the benches at any place.	height of the benches found more than the proposed in approved document between grid coordinates 1100 E to 1500 E & 1600 N to 1800 N, of the lease and it was also observed that width of the benches found very less than the height of the benches between grid coordinates 1100 E to 1500 E & 1600 N to 1800 N.	Violation pointed out for the same.
3m	Total area covered under excavation/pits	60.04 Ha	53.33 Ha	Due to lagging in development. Violation pointed out for the same.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.781	1: 0.691	Ore to OB ratio for the mine is less than the proposed in 2018-19 due to less development. Violation pointed out for the same.
3o	Total area put in use under different heads at the end of year	87.24 Ha	76.86 Ha	
3p	Production of ROM mineral during the last five year period as applicable	Production Proposed in MT 2014-15 1,300,005 2015-16 1,300,000 2016-17 1,300,000 2017-18 1,300,000 2018-19 2,000,000	Production Achieved in MT 2014-15 185,730 2015-16 1,288,068 2016-17 1,290,324 2017-18 1,298,812 2018-19 1,299,443	

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

Bench height and width was not as per proposal at some places. 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)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	S2-848E to 915E & 1432N to 1500N,S6-1478E to 1540E & 1307 N to 1438N W/R3-790E to 868E & 1477N to 1753n W/R5-1400E to 1538E &1354N to 1531N	S2-848E to 915E & 1432N to 1500N,S6-1478E to 1540E & 1307 N to 1438N W/R3-790E to 868E & 1477N to 1753n W/R5-1400E to 1538E &1354N to 1531N	
4c	Number of dumps within lease area and outside of lease area	Dumps proposed with in the lease area	Demps found within the lease area.	
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.	Two	Two	
4f	Number of dead dumps.	Four	Four	
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain along the dumps proposed	Garland drain maintained around the dump.	

4i	Length of Retaining wall or garland drain all along dumps	2500 mtr	2500 mtr
4j	Number of settling ponds	One settling pond proposed in the lease area.	found as per proposal.
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.	full extraction of the mineral from mined out area before starting backfilling.	full extration as per provided records.	
5b	Area under backfilling of mined out area	Not proposed	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil stacked as temporary dump.	top soil dump found.	
5d	Total area fully reclaimed and rehabilitated	0.5 Ha	0.5 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No void available for backfilling after full extration of the mineral.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report in respect of rule 26(2) of MCDR 2017 to be submitted for the year 2018-19	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	NA	
6c	afforestation done (ha).	not proposed	NA	
6d	No. of saplings planted during the year	Not proposed	Not done	
6e	Cumulative no .of plants	500 plants	500 plants (approx)	
6f	Any other method of rehabilitation	Not proposed in the year 2018-19	Not done	
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	Not proposed	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.64 Ha	0.77 Ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	500 plants	500 plants approx.	

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	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1000 plants	1000 plants approx.	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.5 Ha	0.5 Ha	
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)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			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
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral to be dispatched	ROM mineral dispatched
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA
7c	Different grade of mineral sorted out at mines.	NIL	NIL
7d	Any beneficiation process at mines .	Not proposed	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)	Seprate dump of the topsoil and utilization proposed	dump observed during inspection.	
8b	Concurrent use or storage of topsoil	Stack of top soil	As per proposal	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	S2-848E to 915E & 1432N to 1500N,S6-1478E to 1540E & 1307 N to 1438N W/R3-790E to 868E & 1477N to 1753n W/R5-1400E to 1538E &1354N to 1531N	S2-848E to 915E & 1432N to 1500N,S6-1478E to 1540E & 1307 N to 1438N W/R3-790E to 868E & 1477N to 1753n W/R5-1400E to 1538E &1354N to 1531N
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes, after full extraction of the mineral	As per proposal.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	found in order
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation to be done in the waste land of the lease area	Plantation has been done in the waste land.
8g	Survival rate	80%	80% approx as per provided records.
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		Plantation done in the waste land. General cleaningness is satisfactory..

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR and MR to be submitted within stipulated time.	AR and MR submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager Kousik Das Mining Engineer C.S.Pandit Geologist Pravin Tiwari	Found as per AR	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total area covered under (Land use pattern)/Land put to use under various heads Proposal [2018-19] Actual as on 31.03.2019 Excavation/pits 60.04 53.33 Top soil storage 10 9.56 Waste/Ob/IB dumps 8 7.42 Mineral rejects 0 0 Sub grade mineral stacks 0 0 Mineral stacks 0 0 Plants, buildings, Infrastructure etc. 4 1.35 Others (Specify)- Green Belt 5.2 5.2 Total area put in use under different heads at the end of year For which FA given 87.24 76.86	Details of AR found in order as per provided records.
9d	Scrutiny of Annual return on afforestation	Not done in 2018-19 in the mined out area	found as per AR
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details provided	found in order as per provided records.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details provided in AR and MR	found in order as per provided records.
9k	Scrutiny of Annual return on mining machineries	Details provided	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)	06-NOV-19			
MCDR17	Rule 26(2)	06-NOV-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines