

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-338

Mine code : 38MPR35313

- (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 : 11-FEB-21
- (v) Prev.inspection date : 08-SEP-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	9	5	
1b	Exploration over lease area for geological axis 1 or 2	6	5	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	8L	9.21L	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1/G2	G1-223.987(this area is being explored for band 2) Non mineralised M- 232.776	Area to be Left- 55.564. leese has proposed these holes in G1 area to explore for band 2.
1e	Balance reserve as on 01/04/20	31.99 MT	Balance Reserve- 11.56 MT	

1f General remarks
of inspecting
officers on
geology,
exploration etc

There is short fall of 4 Bore Hole till 19-20.the company has inhouse drilling and exploration department.the area belongs to upper vindhyan group of rock formation.the limestone deposit of the area belong to bhander series.the General trend of Bhander series east north east to west south west having low southernly dip of 4 degrees.violation is issued for not completing holes.abbreviation use (NP/np: not proposed,na/NA: not applicable.)

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit I,II,III	Pit I,II	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	Being Made	
2c	Stripping ratio or ore to OB ratio	1:1.01 T/M3	1:0.25 T/M3	
2d	Quantity of topsoil generation in m3	1150310 M3	143745 M3	

2e Quantity of overburden generation in m3 1878918 M3 188568 M3

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Development is on lower side.the limestone is covered by soil(0-7.5 mtr) and overburden(shale upto 8-15 mtr).limestone has thickness varying from 11 to 22 mtr.mechanised mining is done .benches upto 8mtr hiegt are made in OB and limestone.waste is stacked in dumps and also proposed to be back filled.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3	2	
3b	Quantity of ROM mineral production proposed	3000000	1299687	
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	No Mineral Reject	No Reject	
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	ROM Sent to plant
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NP	NA	
3j	Provision of drilling and blasting in mineral benches	Yes	Done	4" Drill used
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	Suitable 8 Mtr Bench
3m	Total area covered under excavation/pits	92	58.17	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.1	1:0.25	
3o	Total area put in use under different heads at the end of year	123.0 Ha	Working Pit-58.17 Backfilling 0.772 Waste Disposal -14.39 Road/Infrastructure-4.00	
3p	Production of ROM mineral during the last five year period as applicable	2017 2018 1300000 2018 2019 2000000 2019 2020 3000000	2016 2017 1290324 2017 2018 1298812 2018 2019 129443 2019 2020 1299678	the production and development are both less than planned quantity.

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

The production and development have been less than planned quantity. mechanised mining is done in 3 pits. 3rd pit was under formation. benches upto 8 mtr are maintained. deep hole drilling, blasting is done. violation issued for low development and production.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	seperate dumps for soil and waste rock.	
4b	Location of topsoil, OB and mineral reject dumps	Top Soil & OB/waste rock. (Many)	Many location.	less than planned area .
4c	Number of dumps within lease area and outside of lease area	7 soil 8 waste	7 soil 8 waste	inside lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside	Inside	proposal to rehandle these some in plan period and some in conceptual to back fill mined out area.
4e	Number of active and alive dumps.	4	4 alive	
4f	Number of dead dumps.	11 dead	11 dead.	
4g	Number of dumps established.	02	02	

4h	Whether Retaining wall or garland drain all along dumps are there.	drain	drain	
4i	Length of Retaining wall or garland drain all along dumps	-	500 mtr drain	
4j	Number of settling ponds	2	2	
4k	Specific comments of inspecting officer on waste dump management			Toe drain is maintained.some dumping near canal was observed. violation issued for same.

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.	YES	DONE	Upto Bottom
5b	Area under backfilling of mined out area	11.95	1.915	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Store & Use	Store & Use	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.		Backfilling in Progress.back filled area is very less.plantation done on backfilled area.the violation issued for less backfill area.
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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 issued.
6b	Area available for rehabilitation (ha) .	Np	NA	
6c	afforestation done (ha).	Np	NA	
6d	No. of saplings planted during the year	np	na	
6e	Cumulative no .of plants	np	na	no prposals for mined out benches
6f	Any other method of rehabilitation	NP	NA	no prOposals for mined out benches
6g	Cost incurred on watch and care during the year			no prposals for mined out benches
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		22 Ha.	PIT AREA AVAILABLE

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11.1 Ha	1.915 Ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	11.1	1.915 Ha (3000 nos)	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NP	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1000 nos	1000 nos	Green belt DEVELOPMENT. SURVIVAL RATE WAS POOR 50% AGAINST PLANNED 80%. VIOLATION ISSUED.
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 backfilled area Backfilling is in progress on pit-1 & Pit-2.deposition of waste along canal with in 50 mtr was seen not as per proposal.green belt developed along canal.

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 Factory from mines.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes being done	
8b	Concurrent use or storage of topsoil	Store & use	Store & use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	BEING DONE	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	BASELINE- 10,000 NOS	4000 NOS	GREEN BELT AND BACKFILL
8g	Survival rate	80%	50% IN GREEN BELT, 70% OTHER	
8h	Water sprinkling on roads to control airborne dust	Yes	Being Done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Survival Rate of plant is less IN GREEN BELT.VIOLATION ISSUED.PLANTATION DONE ON BACKFILLED AREA.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Yes Submitted	Yes Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engg.- C.S. Pandit Geologist- Pravin Tiwari	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Pit-58.170Ha Working- 14.390 Ha Reclaimed- 0.772 Ha. Drain- 5.2 Ha.	Within FA Limit
9d	Scrutiny of Annual return on afforestation		37000	Doubtful.violation given
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex-Mine-233.48	FA is Given

9h	Scrutiny of Annual return on fixed assets	Value of FA- 1,49,13,43,329
9k	Scrutiny of Annual return on mining machineries	List of M/C

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)	26-APR-21			
MCDR17	Rule 45(1)	26-APR-21			
MCDR17	Rule 26(2)	26-APR-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines