

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

Check up inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-338

Mine code : 38MPR35313

- (i) Name of the Inspecting : **NQ07**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Mr Manoj Singh, VP (Mines), Mr S S Rai, GM Mines & Mr
Official with
Designation
- (iv) Date of Inspection : 18-NOV-21
- (v) Prev.inspection date : 13-DEC-16

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	Not applicable	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	9 Bore holes	8 Bore holes, Area explored in G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Prism Jonson Ltd MRM, Expenditure-20.18 Lakh	Prism Jonson Ltd MRM, Expenditure-19.16 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1/G2	G1-223.987 NM- 232.776	Area to be Left- 55.564
1e	Balance reserve as on 01/04/20		30.69 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not proposed in the year 2020-21.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit I, III, IV	Pit I, II	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:1.23 T/M3	1:1.25 T/M3	
2d	Quantity of topsoil generation in m3	641870 M3	622793 M3	

2e	Quantity of overburden generation in m3	1159932 M3	556837 M3	Limestone production is restricted to EC capacity of 1.3 million tons against the proposal of 3 MT thus less development is done
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			In the pit no 1, the height of benches not maintained as per proposal. Violation is pointed out for same

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pit	Two Pit	
3b	Quantity of ROM mineral production proposed	3000000 Tons	1299551 Tons	
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	Not proposed	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	No Reject	No Reject	
3f	Quantity of sub grade mineral generation.	Not proposed	Not applicable	
3g	Grade of sub grade mineral generation	Not proposed	Not applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not applicable	ROM Sent to plant
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Yes	Done	4" Drill used for drilling
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	56.38 ha	56.38 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.01	1:0.25	
3o	Total area put in use under different heads at the end of year	90.93 Ha	90.93 Ha	

3p	Production of ROM mineral during the last five year period as applicable	Production Proposed in MT 2016-17 1,300,000 2017-18 1,300,000 2018-19 2,000,000 2019-20 3000000 2020-21 3000000	2016-17 - 1290324 2017-18 - 1298812 2018-19 - 129443 2019-20 - 1299678 2020-21 - 1299551	EC - 1.30 MT only expansion yet to be obtained
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 planned	Done	
4b	Location of topsoil, OB and mineral reject dumps	644E-685E,2092N-2317N,808E-980E,1361N-1553N,927E-959E-1242N-1356,635E-692E-2338E-2379E,879E-904E-2292-2323, ETC	644E-685E,2092N-2317N,808E-980E,1361N-1553N,927E-959E-1242N-1356,635E-692E-2338E-2379E,879E-904E-2292-2323, ETC	
4c	Number of dumps within lease area and outside of lease area	7 soil & 8 waste	7 soil & 8 waste	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.	4 alive	4 alive	
4f	Number of dead dumps.	4 alive	4 alive	
4g	Number of dumps established.	One	One	
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	500 mtr drain	500 mtr drain	
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			Plantation is done. Toe drain is maintained

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	13.054 ha	5.921 ha	Less development of OB generation affected the backfilling work.
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	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling in Progress

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 in respect of rule 26(2) of MCDR 2017 to be submitted	Annual report in respect of rule 26(2) of MCDR 2017 to be submitted	
6b	Area available for rehabilitation (ha) .	13.054 ha	5.921 ha	
6c	afforestation done (ha).	13.054 ha	5.681 ha	
6d	No. of saplings planted during the year	13000 nos	5000 nos	
6e	Cumulative no .of plants	30000 nos	18500 nos	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	325000	325000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	22.0 Ha	22.0 Ha	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11.1 Ha	5.86 Ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	11.1 Ha.	5.6 Ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	3000 nos	3000 nos
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	2 ha	2 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 been submitted

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable	
7d	Any beneficiation process at mines .	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is sent to Factory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Seperate dump and utilization proposed	dump observed during inspection.
8b	Concurrent use or storage of topsoil	Stack of top soil	Used for plantation
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	Yes
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes
8g	Survival rate	70 %	70 %
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		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		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-56.380Ha Used for waste disposal- 16.730 Ha Reclaimed- 5.680 Ha. Occupied by plant ,building residential,welfare- roads-4.5Ha	
9d	Scrutiny of Annual return on afforestation	Details provided	Within lease area (i) Number of trees planted during the year Within lease area - 5000 Outside lease area - 88944 (ii) Survival rate in percentage 70	
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	Production (in tonne) - 1299551 Dispatches - 1299551 Closing stock - 00	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details provided in AR and MR	270.23	Captive use of mineral not for sale
9h	Scrutiny of Annual return on fixed assets	Details provided	Rs 1667857324/-	

9k	Scrutiny of Details Annual return on provided mining machineries	BACK HOE - 2.500 CUM - 2 nos BACK HOE - 2.000 CUM - 2 nos DUMPER 25 TONNE - 25 NOS ROCK DRILL - 115 MM - 3 NOS PUMPS (NON-ELEC.) 13300L/MN - 2NOS WATER TANKER 15000 LTR - 2 NOS EXPLOSHIVE VAN - 9TONNE - 1 NOS
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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)	01-DEC-21			
MCDR17	Rule 27(1)	01-DEC-21			
MCDR17	Rule 45(7) (a)	01-DEC-21			

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines