

I/28174/2024

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-270

Mine code : 38MPR35137

- (i) Name of the Inspecting : **S025**) **IBRAHIM SHARIEF**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr Manoj Singh, VP (Mines), Mr S S Rai, GM Mines & Mr
Official with
Designation
- (iv) Date of Inspection : 13-OCT-22
- (v) Prev.inspection date : 15-SEP-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRISM CEMENT(253.326 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
Taluka : RAMPUR BAGHELAN
Post office : BATHIYA
Pin Code : 485111
FAX No. : (O) 07675 - 227514 (W) 2751
E-mail : shashi.ray@prismjohnson.in
Phone : 07672-75301, 75302
- (f) Police Station : Kolgawa
- (g) First opening date : 28-SEP-96
- (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 : MPR1574
- (b) Lease area : 253.33
- (c) Period of lease : 50
- (d) Date of Expiry : 27-SEP-46
4. Mineral worked : LIMESTONE Main

I/28174/2024

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	09-AUG-02
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	11-MAY-06
		Modif.approved Mining Scheme	19-SEP-08
		Mining Scheme rule 12 MCDR1988	21-SEP-11
		Modif.approved Mining Scheme	05-SEP-12
		MP modif under MCR 1960	13-APR-16
		MP modif under 17(3) MCR 2016	23-MAR-18
		MP modif under 17(3) MCR 2016	29-OCT-20

1/28174/2024

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	18 bore holes	19 bore holes	
1b	Exploration over lease area for geological axis 1 or 2	6.11 HA area to be converted in G1 scale	including 6.11 Ha area during the year entire lease area 253.326 Ha. has been explored in G1 scale.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Prism Johnson Limited, about 64 Lakhs has been spent	More than 2.0 crores has been spent for exploration for the lease area.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire lease area has been explored in G1 scale.
1e	Balance reserve as on 01/04/20	48.719 MT	48.719 MT	As on 01.04.2022
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area is explored in G1 scale, both upper band and lower band of lease area has been explored in G1 scale.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Second band is developed in West pit in co-ordinates 1621N to 774N and 38E to 467E	Development is being carried out as proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for overburden and mineral is to be maintained as below Waste rock-3 no. of benches Mineral -2 benches	Separate bench for overburden and mineral is maintained as below Waste rock-3 no. of benches Mineral -2 benches	
2c	Stripping ratio or ore to OB ratio	1:0.80	1:0.85	

I/28174/2024

2d	Quantity of topsoil generation in m3	No proposal of top soil generation	No Top soil generated during the year	
2e	Quantity of overburden generation in m3	1748132 cum	3993423 tonnes	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The limestone band is being mined with simultaneous backfilling of the mined out land.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	2175000 Tonnes	2173796 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90% is proposed	100%	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	
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	

I/28174/2024

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No subgrade generation is proposed	No subgrade generated	
3j	Provision of drilling and blasting in mineral benches	DTH Drilling & Controlled Blasting is proposed	Drilling and Blasting is carried out as proposed	
3k	Provision of mining machineries in mineral benches	Excavator-0.92 cum, 4.0 cum, Dumper-50 T, Rock Breaker-1.6 cum, Dozer, Drilling Machine	Above machines are deployed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes suitable	
3m	Total area covered under excavation/pits	204.677 Ha	204.677 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.87	1:0.85	
3o	Total area put in use under different heads at the end of year	221.884 Ha.	221.884 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 3000000 2019-20 3000000 2020-21 2718750 2021-22 2175000	2018-19 2173643 2019-20 2174244 2020-21 2174769 2021-22 2173796	
3q	General remarks of inspecting officers on method of mining etc.			Mining is being carried out by open cast fully mechanised method of mining

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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I/28174/2024

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	80E to 290 E & 922N to 1400N	80E to 290 E & 922N to 1400N	
4c	Number of dumps within lease area and outside of lease area	Three dumps, 02 Soil dump & 01 Waste Dump)	Three dumps, 02 Soil dump & 01 Waste Dump)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL, Temporary Dumps	Within UPL, Temporary Dumps	
4e	Number of active and alive dumps.	One temporary dump	One temporary dump	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			Backfilling is being carried out and waste is being desposed in D1 for temporary storage and will be used for backfilling of the mined out area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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1/28174/2024

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Yes	Yes	
5b	Area under backfilling of mined out area	5.87	3.01	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	top soil stored earlier is being used over backfilled area	Top soil is being used over backdilled area.	
5d	Total area fully reclaimed and rehabilitated	50.50 ha	50.50 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is being carried out over mined out area.

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).	PMCP report to be submitted	PMCP report submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	No proposal	about 0.8 Ha	
6d	No. of saplings planted during the year	2000 no. sapplings	2000 No. sapplings planted	
6e	Cumulative no .of plants	No proposal	About 97000	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	About Rs. 822050	

I/28174/2024

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	4.135 Ha	4.5 Ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.135 Ha	4.5 Ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.79 Ha	2.1 Ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	1.1 Ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil

I/28174/2024

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes proposed to carry out Environmonitoring	Yes Environment monitoring is being carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling is being carried out in mined out area, plantation is being carried out over reclaimed area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM is to be used for captive use of cement plant.	ROM is being used for captive use of cement plant.	
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.	No proposal	Not applicable	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM is being used for captive plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil to be used for restoration and rehabilitation	Top soil is being used for restoration and rehabilitation	

I/28174/2024

8b	Concurrent use or storage of topsoil	Top soil to be used over reclaimed area	top soil is being used over reclaimed area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumps proposed for OB and top soil.	Temporary dumps found as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
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)	2000 sapplings to be planted.	2000 sapplings planted during the year.	
8g	Survival rate	Not proposed	About 70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling in Haul Roads, Wet drill is proposed	Is being done as proposed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being done to improve aesthetic beauty

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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I/28174/2024

9a	Status of submission of Monthly and Annual returns	Monthly returns and Annual returns are to be submitted in time	Monthly returns and Annual returns are being submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Shri pankaj Mishra Geologist- Shri Vinod Srivastav	Above are employed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern area are Pit - 138.162 Ha. Reclaimed - 55.6 ha Waste disposal- 13.90Ha. Infrastructure -3.257 Ha. Green Belt - 6.5 ha For other progressive mine closure activities - 4.415 HA	Land use pattern area are Pit - 138.162 Ha. Reclaimed - 55.6 ha Waste disposal- 13.90Ha. Infrastructure-3.257 Ha. Green Belt - 6.5 ha For other progressive mine closure activities - 4.415 HA
9d	Scrutiny of Annual return on afforestation	2000 sapplings planted	Found planted in the field
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	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 367.67/-	Rs. 367.67/-
9h	Scrutiny of Annual return on fixed assets	Rs. 1185331706/-	As submitted by lessee

I/28174/2024

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) - 4.000 CUM - 4 Nos BACK HOE- 2.600 CUM -2 Nos DUMPER -50.000 TONNE -10 Nos DUMPER -25.000 TONNE- 11 Nos ROCK DRILL (NON-ELEC.)- 110.000 MM -2 Nos DOZER - 324.000 HP -1 Nos ROAD ROLLER - 15.000 TONNE - 1nos MOTOR GRADER - 145.000 HP - 1Nos PUMPS (ELEC.) -16600.000 L/MN -6nos PUMPS (ELEC.) -13300.000 L/MN -1 nos PUMPS (NON- ELEC.) - 16600.000 L/MN - 2 Nos WATER TANKER - 20000.000 LITRE - 1 Nos EXPLOSIVE VAN -9.560 TONNE - 1 Nos	Deployed in the mine
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I/28174/2024

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

Date :

(IBRAHIM SHARIEF)

Indian Bureau of Mines