

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-287

Mine code : 38MPR35270

- (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 : 10-FEB-21
- (v) Prev.inspection date : 20-SEP-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRISM CEMENT 66.434HA**
- (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 :
Taluka :
Post office :
Pin Code :
FAX No. : (O) 07675 - 227514 (W) 275:
E-mail : ukdas@prismcement.vsnl.com
Phone : 07672-75301, 75302
- (f) Police Station : Rampur Baghelan
- (g) First opening date : 01-FEB-02
- (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 : MPR2251
- (b) Lease area : 66.43
- (c) Period of lease : 20
- (d) Date of Expiry : 26-NOV-20
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	11-MAY-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31-MAY-11
		Mining Scheme rule 12 MCDR1988	01-DEC-16
		MP review under 17(1) MCR 2016	27-APR-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	03	03	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	IN HOUSE	IN HOUSE	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	AREA HAS BEEN EXPLORED FOR FIRST BAND. For band II, AREA HAS BEEN EXPLORED WITH 8 BOREHOLES. ADDITIONAL HOLES ARE PLANNED IN FUTURE
1e	Balance reserve as on 01/04/20	-	111-2333586T 222-5089000T	
1f	General remarks of inspecting officers on geology, exploration etc			area had one band of limestone. another band of limestone has been established by 8 bore holes. first band 12 mtr after 5 mtr waste. 2nd band is located after waste rock parting 12-15 mtr with 24 mtr waste-shale, nodular shale. limestone belongs to bhandar series.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	North E-100 E-50-250,N-:- 1970- -1420	North E-100 E-50-250,N-:- 1970- -1420	Production Done
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Soil, Mineral	Soil, Mineral	BENCHES IN OB SOIL AND WASTE.
2c	Stripping ratio or ore to OB ratio	--	1:.17	backlog done
2d	Quantity of topsoil generation in m3	NIL	nil	
2e	Quantity of overburden generation in m3	-	30 000 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine is developed in 2 benches of 7 mtr height in Limestone and 2-4 mtr in soil and waste. The backlog ob removal is done.mining of second band planned in future.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	-
3b	Quantity of ROM mineral production proposed	300000t	299624t	
3c	Recovery of sailable/usable mineral from ROM production	NO	NO	

3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	-	-	
3g	Grade of sub grade mineral generation	NA	NA	
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.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	YES	done	
3k	Provision of mining machineries in mineral benches	YES	YES	Shovel Dumper
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES-6-7 mtr in limestone	YES-upto 7-8 mtr	
3m	Total area covered under excavation/pits	32.54 hect., WD-4.4, Road-2.0	31.00 hect., WD-4.4, road-2.0	
3n	Ore to OB ratio for the pit/mine during the year.	NA	1:0.17	No development proposed.backlog work done

3o	Total area put in use under different heads at the end of year	32.54 hect., WD-4.4,Road- 2.0	Pit-32,WD-4.4,Roads-2.0
3p	Production of ROM mineral during the last five year period as applicable	2016 2017 300002 2017 2018 300002 2018 2019 300002 2019- 2020 300003	2016 2017 292120 2017 2018 299484 2018 2019 299625 2019 2020 299624

3q	General remarks of inspecting officers on method of mining etc.	mechanised mining with shovel and dumpers is carried out.2 benches in limestone.backfilling is done in major part of worked out pit in mines.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposal in year	SOIL DUMP 1	Waste removed approx. 50000T
4b	Location of topsoil, OB and mineral reject dumps	SOIL/WASTE DUMP-1815N TO -2038N,466E 573E	SOIL/WASTE DUMP-1815N TO -2038N,466E 573E	waste is dumped on waste dumps planned.(of previous years),backlog work done
4c	Number of dumps within lease area and outside of lease area	02	02	With in Lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Mined out Area	Mined out Area	active dump in mined out area
4e	Number of active and alive dumps.	01	01	

4f	Number of dead dumps.	1	1	
4g	Number of dumps established.	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	YES	
4i	Length of Retaining wall or garland drain all along dumps	150	140 MTR	
4j	Number of settling ponds	-	-	
4k	Specific comments of inspecting officer on waste dump management			A dump of Soil is created at location -1815N to -2038N, 466E to 573E. one old dump located near gypsum yard D5.

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	Yes	
5b	Area under backfilling of mined out area	-	NIL	No proposal in year.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NO	NO	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is proposal to mine 2nd bench of L/S in area. 11.83 Ha. area is already backfilled before plan period. backfilled area of past will be worked in future to win band II
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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).	YES	not submitted.	violation given
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	
6f	Any other method of rehabilitation	NP	NA	
6g	Cost incurred on watch and care during the year	NP	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NP	NP	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NP	NP	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NP	NP	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NP	NP	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NP	NP	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	YES	NP	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1 HECT.	not done	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	1000 PLANTS	not done	violation given

6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Green Belt on Boundary proposal. Solar plant for renewable energy erected. plant area not done on designated place.

Mineral Conservation:

Sl.No.	Item	Proposals	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.	NP	NA	
7c	Different grade of mineral sorted out at mines.	NP	NA	
7d	Any beneficiation process at mines	NP	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			NO Proposal ROM supplied

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	YES	YES	
8b	Concurrent use or storage of topsoil	NO	NO	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes over burden soil	Yes overburden soil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NP	DONE	Put in already backfilled area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	YES	IN FUTURE
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos.	not done	
8g	Survival rate	70%	---	plantation not done in designated place
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	Some barrier Plantation is seen. Solar power plant has been erected in lease area/by lease area.the planatataion for green belt on designated place is not done .violation pointed out.
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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
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Laxmikant Kaushik-ME, Sunil Upadhyay-geologist, Manager-Shashi Shekhar Ray	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	20.5 pits,Reclaimed area-12.33,	discrepancy observed.pit area is already 25 hect at plan start .violation given.,	
9d	Scrutiny of Annual return on afforestation	1000 nos.	Not Done- violation given	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	19171 tons stock.		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		233.48 Rs/T. supply for own factory.	

9h Scrutiny of Annual return on fixed assets value of FA 3,843,55,464

9k Scrutiny of Annual return on mining machineries BACK HOE 2.900 List of M/C
CUM- 2
DUMPER 25.000
TONNE -10 NoS
DOZER 324.000
HP 1 Non
Electrical
Opencast
ROCK DRILL
(NON-ELEC.)
110.000 MM 1
NOS
PUMPS (NON-ELEC.)
16600.000 L/MN
1 NOS.

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