

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LIMESTONE-0

Mine code : 38MPR35331

- (i) Name of the Inspecting : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh C S Pandit (JGM Mines), S Kumar (Geologist), K K
Official with
Designation
- (iv) Date of Inspection : 06-NOV-19
- (v) Prev.inspection date : 15-FEB-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BANDARAKHA LIMESTONE**
- (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. : 07672-275303
E-mail : regdofficeprismcement@gmail.
Phone : 07672-275303
- (f) Police Station : Kolgawa
- (g) First opening date : 28-FEB-11
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : MPR2368
- (b) Lease area : 40.24
- (c) Period of lease : 20
- (d) Date of Expiry : 27-FEB-31
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 05-JAN-16
Plan/Scheme of Mining

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	Area to be explored in G1	Area explored in G1	The Available reserves are in G-1 Category as per provided records.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency: Prism johnson Ltd Expenditure proposed: 5.00 Lakh	Exploration Agency: Prism johnson Ltd Expenditure proposed: 7.39 Lakh	
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 4.923 Million Tones 121 Nil 122 Nil 211 2.07 Million Tones	111 4.923 Million Tones 121 Nil 122 Nil 211 2.07 Million Tones	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not proposed for RY 2018-19.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Bandarkha Pit	Bandarkha Pit	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes
2c	Stripping ratio or ore to OB ratio	1:0.34	1:0.36
2d	Quantity of topsoil generation in m3	10322 m3	10190 m3
2e	Quantity of overburden generation in m3	58489 m3	64910 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 (one)	01 (one)	
3b	Quantity of ROM mineral production proposed	200000 te	192560 te	
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	Not proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Not proposed	NA	

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.	NO	NO
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	Yes	Yes
3m	Total area covered under excavation/pits	2.47 Ha	2.584 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.34	1:0.36
3o	Total area put in use under different heads at the end of year	4.97 Ha	4.80 Ha
3p	Production of ROM mineral during the last five year period as applicable	ROM Qty in MT: 2015-16 240000 2016-17 240000 2017-18 240000 2018-19 200000	ROM Qty in MT: 2015-16 0 2016-17 0 2017-18 75075 2018-19 192560

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

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Near Bandarkha pit	Near Bandarkha pit	
4c	Number of dumps within lease area and outside of lease area	02	02	
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.	02	02	
4f	Number of dead dumps.	not proposed	Not found during inspection.	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed around the pit.	Garland drain provided around the pit was not maintained properly. Hence, the mine was flooded till date of inspection.	Violation pointed out
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NO	No	

4k	Specific comments of inspecting officer on waste dump management	it was proposed to provide a garland drain around the pit to prevent inrush of rainwater into the mining pit.	it was observed during inspection that the garland drain provided around the pit was not maintained properly. Hence, the mine was flooded till date of inspection.	Violation pointed out for the same.
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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	The pit bottom could not be observed due to water in the mine pit.	Violation pointed out for the same.
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Actual pit condition could not be observed due to water in the pit. Violation pointed out for the same.

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).	Yes	Not submitted	Violation pointed out
6b	Area available for rehabilitation (ha) .	Not proposed	not done as per provided information during inspection.	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	Not proposed	Not done	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	Area not Matured for reclamation and rehabilitation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	

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.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	Area not Matured for reclamation and rehabilitation
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	NA	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Area not Matured for reclamation and rehabilitation

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral will directly dispatched to captive plant.	ROM mineral directly dispatched as per provided records.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	No	No	
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)	Yes	Yes	
8b	Concurrent use or storage of topsoil	To be stored for restoration and rehabilitation	Stored for restoration and rehabilitation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	Provided	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not done	not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	nil	nil	Area not Matured for reclamation and rehabilitation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not done	not done	
8g	Survival rate	Nil	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling in Haul Roads, Wet drill machines carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Monthly and Annual returns have been submitted .	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer: Mr. Deo Prakash , B.E. Mining & First Class Mines Manager Geologist :Shri Santosh Kumar, M.Sc in Geology Mine Manager:Mr. Deo Prakash
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Found in order
9d	Scrutiny of Annual return on afforestation	Yes	Found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	found in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Found in order
9h	Scrutiny of Annual return on fixed assets	Yes	found in order
9k	Scrutiny of Annual return on mining machineries	Yes	Found in order

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)	05-NOV-19			
MCDR17	Rule 26(2)	05-NOV-19			
MCDR17	Rule 28(1)	05-NOV-19			
MCDR17	Rule 46(a)	05-NOV-19			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines