

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LIMESTONE-0

Mine code : 38MPR35331

- (i) Name of the Inspecting : **NQ06**) **P.NAHAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Amit Kumar Biswas, Geolotist, Shri S.K. Upadhyay,
Official with
Designation
- (iv) Date of Inspection : 07-SEP-18
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BANDARAKHA LIMESTONE**
- (b) **Registration NO.** :
- (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. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date :
- (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

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	16-17-03Nos. 17-18-02 Nos. 18-19-03Nos. Total meterage-780m	05BH Total meterage-139m	There is a short fall of 9BH is noticed till date of inspection. For compliance of it a violation under rule 11(1) of MCDr -2017 is being pointed out.
1b	Exploration over lease area for geological axis 1 or 2	G2	G1	----
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself.	Lessee himself.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire are to be explored under G1 Level.	Presently about 16.0Ha are is explored under G1 Level.	Comments is same as para 1a.
1e	Balance reserve as on 01/04/20			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Between B.P. No. 03,10,11,12 .	At proposed location.	There is no site deviation.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Soil-6m Limestone -7m	Soil- 4-5m Limestone-7m.	Development is continued.
2c	Stripping ratio or ore to OB ratio	1:0.37	1:0.34	----
2d	Quantity of topsoil generation in m3	15-16-128484m3 16-17-94794m3 17-18-88056m3	15-16-205574m3 16-17-151670m3 17-18-140890m3	----

2e	Quantity of overburden generation in m3	--Do--	--Do--	----
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	It is Bedded, Stratiform and Tabular Deposit of Regular Habit. Development has been done at proposed location. Seperate benches are being developed in Soil and Limestone.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	----
3b	Quantity of ROM mineral production proposed	15-16-240013T 16-17-240013T 17-18-240013T 18-19- 2,00,000T	15-16-Nil 16-17-Nil 17-18-75275T 18-19-188T (Till date of inspection.)	----
3c	Recovery of sailable/usable mineral from ROM production	90%	80-90%	----
3d	Quantity of mineral reject generation	Nil	Nil	----
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	----
3f	Quantity of sub grade mineral generation.	Nil	Nil	----
3g	Grade of sub grade mineral generation	NA	NA	----

3h	Manual / Mechanised method adopted for segregating from ROM	A-FM	A-FM	----
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Nil.	----
3j	Provision of drilling and blasting in mineral benches	Proposed. Drill ing by DTH having dia of 110mm, Spacing -4.0m, burden- 3.0m Depth-4.5 to 6.5m.	Not noticed as the mine was closed on the day of inspection.	----
3k	Provision of mining machineries in mineral benches	Proposed.	--Do--	----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Soil-6m Limestone-7m	Yes height of benches in OB and mineral are suitable for A (FM) category.	----
3m	Total area covered under excavation/pits	5.525Ha	0.84Ha	Less development is due to opening of the mine in 2017- 18.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.37	1:0.34	----
3o	Total area put in use under different heads at the end of year	16.78Ha (Till end of proposal period i.e. 2019-20)	0.96ha	----
3p	Production of ROM mineral during the last five year period as applicable	15-16-240013T 16-17-240013T 17-18-240013T 18-19- 2,00,000T	15-16-Nil 16-17-Nil 17-18-75275T 18-19-188T (Till date of inspection.)	----

3q	General remarks of inspecting officers on method of mining etc.	----	----	Mining was not proposed and done by opencast fully mechanized method.
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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)	Proposed.	Only top soil stacked.	For making of bund around excavated pit.
4b	Location of topsoil, OB and mineral reject dumps	Near BP No. 4,5,to 09 .	Near main pit.	----
4c	Number of dumps within lease area and outside of lease area	One dump within ML.	One dump within ML.	----
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Within UPL	----
4e	Number of active and alive dumps.	One dump active and alive.	One dump active and alive.	----
4f	Number of dead dumps.	Not proposed.	Nil.	----
4g	Number of dumps established.	Not proposed.	Nil	----
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Nil.	----
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	----
4j	Number of settling ponds	Not proposed.	Nil.	----

4k	Specific comments of inspecting officer on waste dump management	----	----	The mine is opened up in 2017-18 after EC clearance . Waste generation is negligible.
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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 mine is opened up in 2018-19. There is no matured land for backfilling as on date.	----
5b	Area under backfilling of mined out area	Not applicable.	Nil	There is no matured land till date.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For storage .	Being stored.	----
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil.	----
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	The mine is opened up in 2017-18. There is no matured pit for backfilling /reclamation hence it is neither proposed nor carried out.

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).	----	Not submitted.	Any Reclamation and Rehabilitation is not done.
6b	Area available for rehabilitation (ha) .	Not proposed.	Nil.	The pit is opened up recently.
6c	afforestation done (ha).	NA	NA	----
6d	No. of saplings planted during the year	1100 No.p.a.	1000Nos.	Outside ML.
6e	Cumulative no .of plants	3300Nos.	1100Nos.	The mine is opened up in 2017-18
6f	Any other method of rehabilitation	Not proposed.	None.	----
6g	Cost incurred on watch and care during the year	Not proposed.	NA	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not proposed.	None.	There is no matured land for backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	None.	--do--
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed.	None.	--do--

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	None.	----
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed.	None.	----
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1100Nos.p.a.	Nil.	The mine is opened up in 2017-18 after EC clearance.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed.	None.	----
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed.	None.	----
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Done.	----
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	The mine is opened up in 2017-18. PMCP proposals are under implementation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Seperate removal and storage.	Seperate removal and storage.	----
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Seperate removal and storage.	Seperate removal and storage.	----
7c	Different grade of mineral sorted out at mines.	Seperate removal and storage.	ROM dispatch.	----
7d	Any beneficiation process at mines .	Seperate removal and storage.	None.	----
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	After removal of Top Soil .entire mineral is consumed in his Captive Cement Planat Satna as ROM.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and storage.	Seperate removal and storage.	----
8b	Concurrent use or storage of topsoil	Seperate removal and storage.	Seperate removal and storage.	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumping of Soil and Waste .	Presently, soil stored seperately.	----

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Presently storage only.	Storage of top soil only.	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Presently , there is no mated land for reclamation and rehabilitation.	----
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	----	----	In and around lease area agricultural land is present. About 20 Nos. of old trees are present. Any additional afforestation is not done within the lease area.
8g	Survival rate	NA	NA	----
8h	Water sprinkling on roads to control airborne dust	Proposed.	Not noticed as the inspection was carried out during rain period.	----
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	----	Entire lease area is surrounded by Agricultural land giving good aesthetic look but in the lease area it is to be improved by afforestation.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR upto July-18. AR upto- 2017-18.	-----	-----
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Shri L.K. Kaushik Geologist-Shri S.K. Updhyay Manager--Shri L.K. Kaushik	None.	A violation under rule 55(1) is being pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-0.441Ha Dump -Nil	Pit -0.84Ha. Dump-0.3Ha	-----
9d	Scrutiny of Annual return on afforestation	1000Nos.Outside ML.	-----	-----
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	Cost of production-Rs. 213.18/-	-----	-----
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	-----
9k	Scrutiny of Annual return on mining machineries	Shovel-3.9m3-1Nos. Back Hoe-1.6m3-1Nos. Dumper-37T-2Nos. Dumper 20T-04Nos. Rock Drill-110mm-1Nos.	None.	All machineries were deployed in another mines of the Lessee.

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)	08-MAR-19	13-MAY-19	MCDR17	Rule 55(1)	08-MAR-19	20-JUN-19
MCDR17	Rule 55(1) (3)	08-MAR-19					

Date :

(P. NAHAR)

Indian Bureau of Mines