

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SATNA/LIMESTONE-0

Mine code : 38MPR35331

- (i) Name of the Inspecting : P012) MITHELESH PUROHIT
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : G.P pandey , Sunil Upadhya
Official with
Designation
- (iv) Date of Inspection : 17-MAR-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	During the year 2015-16, 2016-17 and 2017-18 it was proposed to drill five, three and two number of boreholes respectively.	No bore holes were drilled. The notice of opening was submitted on 4.09.2017. The operations were started on 4.09.2017	A violation of rule 11(1) for non implementation of exploration proposals.
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to convert the entire lease area to G1 level.	No exploration has been done.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No estimate given in the proposals.	No exploration drilling done.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	The entire lease area has been classified under the G-2 category. Proposal was to convert the G2 level of exploration to G1 level of exploration.	No exploratory drilling was done . The entire lease area is under G2 category.	
1e	Balance reserve as on 01/04/20	The proposed reserve as on 1.04.2017 was 4.71 MT	The actual reserve as on date of inspection was 4.95 MT.	
1f	General remarks of inspecting officers on geology, exploration etc	Limestone band of 7-8 meter below a soil covering of 5-6 meters is existing.	Limestone band of 7-8 meter below a soil covering of 5-6 meters is existing.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	The development was proposed on the western side edge of the lease area.	One pit of size 100 meter *80 meter is existing inside the lease area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench in soil of 5-6 meters in Soil and one bench in limestone of height 7.0 meter was proposed.	One bench in soil of 5-6 meters in Soil (100*80*6meters) and one bench (10*15*1) in limestone of height 1 meter.
2c	Stripping ratio or ore to OB ratio	The proposed stripping ration during the year 2016-17 was 1:0.99.	The actual stripping ratio during the year 2016-17 is nil as no working done.
2d	Quantity of topsoil generation in m3	It was proposed to generate about 88056 cubic meters during the year 2017-18.	As on date of inspection 8447 cubic meters of soil was generated.
2e	Quantity of overburden generation in m3	No proposal of OB was during the year 2017-18	No OB generated only soil was generated.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Open Cast Mining with external dumping has been proposed.	Open cast Mining is being done in the leaes area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit was proposed for produciton.	One pit has been developed.	Violation of Rule 11(1) of MCDR was issued for mismathch in the production reported in MCDR return of March 2018 and actual excvation on ground.

3b	Quantity of ROM mineral production proposed	Proposed Mineral production for the year 2017-18 was 240000 MT.	The actual mineral production as on date of inspection was 25000 tonnes. The total mineral production during the year 2017-18 is 75275 MT.
3c	Recovery of sailable/usable mineral from ROM production	The entire ROM is dispatched from the lease.	The entire ROM is dispatched from the lease.
3d	Quantity of mineral reject generation	No proposal for Mineral reject.	No mineral reject generated during the year 2017-18.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal for Mineral reject during the year 2017-18	No mineral reject generated during the year 2017-18.
3f	Quantity of sub grade mineral generation.	No proposal for Mineral reject generation.	No mineral reject generated during the year 2017-18.
3g	Grade of sub grade mineral generation	No proposal for sub grade generation.	No subgrade generated during the year 2017-18.
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation of ROM proposed.	No Segregation done. The entire ROM is dispatched to Cement Plant.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	None done.
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting has been proposed in the Mineral Benches.	Drilling and Blasting has been done in the mineral Bench.
3k	Provision of mining machineries in mineral benches	Mining machinery has been proposed in the mineral benches.	Mining machinery has been deployed in the mineral benches.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches is proposed is as per the Machinery deployed in the lease.	Height of the benches is proposed is as per the Machinery deployed in the lease.

3m	Total area covered under excavation/pits	The total proposed area under mining during proposal period is 8.67 hect.	The actual area of Mining as on date is approx 0.8 hect.
3n	Ore to OB ratio for the pit/mine during the year.	The proposed ore ob ratio during the year 2017-18 is 1:0.37.	The actual ore ob ratio during the year 2017-18 is 1:0.18.
3o	Total area put in use under different heads at the end of year	The total area put to use during the proposal period is 16.78 hect.	The total area put to use during the year 2017-18 is approx 0.8 hect.
3p	Production of ROM mineral during the last five year period as applicable	The proposed Mineral production during the year 20112-13, 2013-14, 2014-15 , 2015-16 & 2016-17 was 180000 MT, 200000 MT, 240000 MT, 240000 MT & 240000 MT respectively.	The actual Mineral production during the year 20112-13, 2013-14, 2014-15 , 2015-16 & 2016-17 was NIL, NIL, NIL, NIL & 75275 MT & respectively.
3q	General remarks of inspecting officers on method of mining etc.	Open pit mining with external dumping has been proposed.	Open pit mining is being done in the mining lease. wate Rock is being used in the bund around the excavated pit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dump of topsoil has been proposed. Dumping of top soil has been proposed in the south side of the lease.	The topsoil is being used for making bund around the excavated pit.	

4b	Location of topsoil, OB and mineral reject dumps	The topsoil dump has been proposed on the south side of the lease.	Top soil has has been used in making bund around the excavated pit.	Violation of rule 11(1) of MCDR issued for not carrying out soil dumping at proposed location.
4c	Number of dumps within lease area and outside of lease area	It was proposed to develop one dump inside the lease area on the south side of the lease.	No dumps seen in the lease area. The soil is used in bund around the excavated pit.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed dumps are outside the Ultimate pit limit.	No dumping is being done, only bund is being made.	
4e	Number of active and alive dumps.	It was proposed to develop one active soil dump on the south side of the lease.	No active dump inside the lease as on date of inspection.	
4f	Number of dead dumps.	No proposed dead dumps.	No dead dumps inside the lease area.	
4g	Number of dumps established.	No proposal for established dumps.	No established dumps inside the lease as on date of inspection.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed.	No dumping done inside the lease.	
4i	Length of Retaining wall or garland drain all along dumps	NA	No dumping inside the lease.	
4j	Number of settling ponds	None proposed.	None seen in the lease.	
4k	Specific comments of inspecting officer on waste dump management	It was proposed to stack soil on the south side of the lease area.	No stacking of soil done as per proposal. Bund is being maintained around the excavated pit.	Violation of Rule 11(1) issued.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal for backfilling.	No backfilling done as no mined out area.	
5b	Area under backfilling of mined out area	No proposal for backfilling.	No backfilling done.	The mining operations have started in year 2017-18 itself .
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It was proposed to stack top soil in the southern part of the mining lease.	No stacking of Top soil on the southern part of the lease deed was done. Top soil was used in bunding around the mining pit.	Violaiton of rule 11(1) of MCDR for not stacking of top soil as per approved proposals was issued.
5d	Total area fully reclaimed and rehabilitated	No proposal for reclamation and rehabilitation	No reclamation and rehabilitation done and observed as on date of inspection.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal for backfilling and reclamation during the proposal period.	No backfilling and reclamation done.	Backfilling may be initiated when the pit is mined out.

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).	It is proposed to submit the PMCP report by July 2018	No report submitted till date of inspection . The Mining operation started in the year 2017-18.	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	1100	None done till date of inspection.	
6e	Cumulative no .of plants	3300	None seen till date of inspection.	
6f	Any other method of rehabilitation	NIL	NIL	

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 (L x B x D	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	afforestation proposed	No plantation done.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	No rehabilitation done.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL
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.	It was proposed to do 1100 plantation during the year 2017-18.	No plantation done till date of inspection . The lease started operation during the september 2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed.	ROM is being dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No sorting proposed.	No sorting done.	
7c	Different grade of mineral sorted out at mines.	No sorting proposed.	No sorting done.	
7d	Any beneficiation process at mines .	Not proposed	Not done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal for beneficiation.	No beneficiation done.	The entire ROM is being transported to the Cement Plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to stack the topsoil on the southern part of the lease.	The top soil is being used in the preparation of bund around the excavated pit.	
8b	Concurrent use or storage of topsoil	It was proposed to stack top soil.	Top soil is used in the making of bund.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for dumping of overburden, reject and fines.	No dumping done.	The limetone exists under the soil capping of 5-6 meter of soil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	None done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Not done.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No plantation done in the lease area.	No plantation done.	
8g	Survival rate	NA	No plantation done.	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lease area is contiguous to existing leases of the same owner. The general topography of the lease area is flat and aesthetic beautify of the area is fair.	The lease area is contiguous to existing leases of the same owner. The general topography of the lease area is flat and aesthetic beautify of the area is fair.
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The Opening notice of the lease received in Sept 2017. AR will be filed from July 2018 for preceding year. The lessee is filing online monthly returns.	Mismatch in the submitted return of March 2018 and development of benches in the field.	Violation of Rule 11(1) of MCDR 2018 issued to the lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The AR is yet to be filed in July 2018. Mining Manager Shri Laxmikant Kaushik Mining Engineer Shri Laxmikant Kaushik Geologist Shri Sunil Kumar Upadhya	The AR is yet to be filed in July 2018. Mines Manager Shri Laxmikant Kaushik Mining Engineer Shri Laxmikant Kaushik Geologist Shri Sunil Kumar Upadhya	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yet to be filed. Total proposed area put to use 16.78 hect.	The total area of approx 0.8 hect put to use under excavation.	
9d	Scrutiny of Annual return on afforestation	NIL	No plantation done.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No propsoal for mineral reject.	No mineral reject generated.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per the submitted return for March 2018 the total production reported from the mine is 75275 tonnes.	A violation of rule 11(1) of MCDR 2017 was issued for mismatch of production details reported in the March 2018 and the actual development in the field.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR is yet to be filed. The cost of mining is 230 Rs/tonne. The mine is a captive mine therefore the Ex mine price is equal to the cost of production.	AR is yet to be filed. The cost of mining is 230 Rs/tonne. The mine is a captive mine therefore the Ex mine price is equal to the cost of production.	The mining operations in the lease started in september 2017.
9h	Scrutiny of Annual return on fixed assets	AR yet to be filed.	No fixed assets seen in the lease area.	The lease has common infrastructure with contiguous leases of the same lessee.
9k	Scrutiny of Annual return on mining machineries	AR yet to be filed.	One excavator of capacity 1.0 cubic meter was seen working in the lease area.	

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)	02-MAY-18			

Date :

(MITHELESH PUROHIT)

Indian Bureau of Mines