

**INDIAN BUREAU OF MINES**  
**MINERALS DEVELOPMENT AND REGULATION DIVISION**  
**MCDR Inspection REPORT**  
**Jabalpur Regional office**

**Mine code: 38MPR35270**

(i)	Name of Inspecting officer	:	Shri Kathroju Naveen
(ii)	Designation	:	Sr. Assistant Controller of Mines
(iii)	Accompanying mine official with Designation	:	Sunil Kumar Upadhaya, Geologist Kousik Das, Mines Manager
(iv)	Date of Inspection	:	27.05.2024
(v)	Previous Inspection date	:	10.02.2021

**PART-I: GENERAL INFORMATION**

1	(a)	Mine Name	:	Prism Cement Limestone Mines
	(b)	Registration Number	:	IBM/267/2011 Mine Code 38MPR35270
	(c)	Category	:	Opencast fully mechanized Category A mine
	(d)	Type of Working	:	Mechanized
	(e)	Postal address	:	Prism Cement Limestone Mines of M/s Prism Johnson Limited
		State	:	Madhya Pradesh
		District	:	Satna
		Village	:	Prism Cement
		Taluka	:	Rampur Baghelan
		Post Office	:	Bathiya
		Pin code	:	485111
		Fax	:	07672 – 275303
		email	:	registered.office@prismjohnson.in
		Phone No	:	07672-432600
	(f)	Police Station	:	Rampur Baghelan
	(g)	First Opening date	:	01.02.2002
	(h)	Weekly day of rest	:	Sunday
2		Address for Correspondence	:	Rajdeep, Rewa road, Satna, MP, 485001 Telephone 07672-432600
3	(a)	Lease Area	:	66.434 Ha
	(b)	Period of lease	:	50 years
	(c)	Date of Expiry	:	28.11.2051
4		Mineral Worked (Main)	:	Limestone
5		Name of address of the Lessee with Phone, email and fax number	:	Prism Cement Limestone Mines of M/s Prism Johnson Limited Rajdeep, Rewa road, Satna, MP, 485001 Telephone 07672-432600 Email: registered.office@prismjohnson.in

I/37019/2024

	Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	Vivek K.Agnihotri Executive Director-Cement Division, Prism Johnson Limited, Rahejas 2nd Floor, Main Avenue, V.P.Road, Santacruz(W), Mumbai,Pin-400054 Telephone 07672-432600 email- Vivek.Agnihotri@prismjohnson.in Date of appointment - 17.08.2015
	Name of address of the Agent with Phone, email, fax number and Date of appointment	:	Shri Vinod Shrivastava, VP Mines & MRM M/S Prism Johnson Limited Rajdeep, Rewa road, Satna, MP, 485001 Telephone 9584464612 email- vinod.shrivastava@prismjohnson.in Date of appointment – 28.09.2021
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Kousik Das, Mines Manager M/S Prism Johnson Limited Rajdeep, Rewa road, Satna, MP, 485001 Telephone 9584460385 email- kousik.das@prismjohnson.in Date of appointment – 11.04.2024 Experience :15 years
	Mining Engineer Name Qualification Date of Appointment	:	Pathan Naushad Khan B.E. Mining 10-05-2022 Experience : 07 years.
	Geologist Name Qualification, Date of Appointment	:	Mr. Sunil Kumar Upadhyay M.Sc. in Geology, APS University Rewa 01-10-2016 Experience : 18 Years.
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	MP/Satna/Lst./M-RMP-68/2020-21 Dated 07.07.21

## PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

### Exploration

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	No backlog of exploration observed.	G1 level exploration completed
1b	Exploration over lease area for Geological axis 1 or 2	G1 level	Band 1 and band 2 are explored in G1 level.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Not available	
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2024	3158097 tones	3158841 tones	
1f	General remarks of Inspecting officer on geology, exploration etc.	As per the last approved Review of Mining Plan dated 07/07/2021 the reserves available are 4.058 MT out of which it is proposed to excavate 1.20 MT ginst which 1.19 MT produced hence the balance reserves available as on 01.04.2024 are 3.15MT.		

**Development(2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Pit-01 499213 to -499489 and 2717294 to 2717553	Pit-01 499239 to -499682 and 2717311 to 2717551	The deviation in the proposed area observed against which the violation in pointed out under Rule 11(1).
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	OB bench height 8-9m Mineral Bench height 4-5m	
2c	Stripping ratio or ore to OB ratio	1:1.61 m <sup>3</sup> /T	1:1.41 m <sup>3</sup> /T	
2d	Quantity of topsoil generation in m3	0	0	
2e	Quantity of overburden generation in m3	484973	422112	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The deviation in the proposed area observed against which the violation in pointed out under Rule 11(1).		

**Exploitation FY 2023-24**

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	300004 Tones	299728 Tones	
3c	Recovery of Salable/usable minerals from ROM production	Entire ROM produced is proposed for captive consumption.	Entire ROM produced is being utilized for captive consumption.	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	
3f	Quantity of sub-grade mineral generation	Not proposed	Nil	
3g	Grade of sub-grade mineral generation	Not proposed	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Not proposed	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	

1/37019/2024

3j	Provision of drilling & blasting in mineral benches	DTH		DTH	Drilling and Blasting techniques are adopted
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 (Ha.)	1.94		1.92	Second band working going on
3n	Ore to OB ratio for the pit/mine during the year	1:0.61 T/m3		1:0.71 T/m3	Within proposal
3o	Total area put in use under different heads at the end of year	59.17 Hectare		59.17 Hectare	Second band working is going on in already broken area
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	3,00,000 T	299624 T	As per the proposal
		2020-21	3,00,000 T	299675 T	
		2021-22	3,00,000 T	299609 T	
		2022-23	3,00,000 T	299931 T	
		2023-24	3,00,000 T	299728 T	
3q	General remarks of inspecting officer on method of mining etc.	Against the proposed 300004 T of limestone 299728 T reported.			

**Solid Waste Management-Dumping (FY2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No Proposal during this year	No Proposal during this year	Second band working is going on in already broken area
4b	Location of topsoil, OB & mineral reject dumps	Topsoil:- No Proposal Waste dump:- 499114-499292 / 2717125- 2717344 No Mineral reject	Top soil: No new dump is created. Waste dump:- 499123- 499301, 2717038- 2717309 No Mineral reject	a solar plant is being installed on the top of the dump by leveling the top material .
4c	Number of Dumps within lease area and outside lease area	No Proposal during this year 02 (within the lease area)	01	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No Valid Proposal	Not Applicable	
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of dead dumps	02	02 Top soil dump-01 & Waste dump-01	

I/37019/2024

4g	Number of dumps established	01	01 stabilized	The old waste dump has been converted into solar power plant in the same location.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall: 967m. Garland drain: - 976m.	Retaining wall: 795m. Garland drain: - 812m.	Garland drains have been constructed in all corners of the waste dump, and a stone retaining wall has been built around it.
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	The waste dumping has not been carried out as proposed for the reporting year. Garland drain has not been constructed as proposed against which the violation issued under Rule 11(1).		

#### **Solid Waste Management-Backfilling (FY 2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Second band is under excavation and	Second band is under excavation.	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling neither proposed nor carried out.		

#### **Progressive Mine Closure Plan (FY 2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 23E (2). Details should be given in the format as given in Annexure-20	Yes	The PMCP report is being submitted along with the annual return before 30.06.24.	
6b	Area available for rehabilitation (Ha)	4.2 Ha	4.2 HA	Solar power
6c	Afforestation done (ha)	0.5 Ha	0.5 Ha	In greenbelt

1/37019/2024

6d	No. of saplings planted during the year	500 Nos	500 Nos	
6e	Cumulative no. of plants	25944	25944	
6f	Any other specific method of rehabilitation	No Valid Proposal	A solar plant is being installed by backfilling in the mined-out area within the lease area of approximately 4.0 hectares.	
6g	Cost incurred on watch & care during the year	No Valid Proposal	Not Applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	1.14 hect.	Not Carried out	Backfilling has not been carried out as proposed against which the violation is issued under Rule 11(1).
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	0.50 hect.	Solar power	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	0.50 hect.	Not Applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	0.0 Hectare	4.2 Hectare in solar power	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	0	4.2 Hectare in solar power	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	0	Not Applicable	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	0	0	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	0	0	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	Monthly & Quarterly monitoring	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Backfilling has not been carried out as proposed against which the violation is issued under Rule 11(1).		

**Mineral Conservation (FY 2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Proposed ROM dispatch	Produced ROM is being dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	Not Applicable	
7c	Different grade of mineral sort out at mine	Not Proposed	Not Applicable	

1/37019/2024

7d	Any beneficiation process at mines	Not Proposed	Not Applicable
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The produced Rom is being utilized in the captive consumption.	

**Environment (FY 2023-24)**

S.N	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Proposed back filling	Backfilling has not been carried out	Backfilling has not been carried out as proposed against which the violation is issued under Rule 11(1).
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed 500 saplings	500	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water is sprayed on the roads to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Backfilling has not been carried out as proposed against which the violation is issued under Rule 11(1).		

**Compliance of Rule 45 (2023-24)**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	The monthly return and annual returns submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge: Mr. Pathan Naushad Khan Geologist in charge : Mr. Sunil Kumar Upadhyay.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Covered under current (O-C) Workings 26.620 ha. 2. Reclaimed-rehabilitated 1.260 ha . 3. Used for waste disposal 3.976 ha. 4. Occupied by plant, buildings, residential, welfare buildings and roads 2.120 ha. 5. Garland drain and Green belt 26.434 ha. 6. Work done under progressive mine closure plan during the year 2.850 ha.	
9d	Scrutiny of Annual return on	Number of trees planted during the year	

I/37019/2024

	afforestation	Within the lease 500.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No mineral rejects have been generated from the lease area. The entire ROM is being utilized.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	29011 T of cement grade limestone is reported.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	The subject mine is captive lease. price and production cost is 488.03/- Ex. mine price is 488.03/-	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets ₹ 4,72,65,220/-	
9k	Scrutiny of Annual return on mining Machinerics	SHOVEL 3.5 CUM 2 DUMPER 50 TONNE 3 DUMPER 25 TONNE 4 ROCK DRILL 110MM 1 DOZER 324HP 1 PUMPS 16600L/MN 1	

S.No	Violation Under Rule	Issued on	Compliance Received	SCN Issued on	Compliance Received
01	11(1)	16/07/2024	-	-	-
02	45(7)	16/07/2024	-	-	-

**Kathroju Naveen**  
Senior Assistant Controller of Mines