

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

**Mine code: 38MPR35287**

(i)	Name of Inspecting officer	:	Shri Sudip Ranjan Mazumdar
(ii)	Designation	:	Regional Mining Geologist
(iii)	Accompanying mine official with Designation	:	Shri Shashi Shekhar Ray, Mines Manager and Shri Amit Biswas, Geologist
(iv)	Date of Inspection	:	26.03.2024
(v)	Previous Inspection date	:	01.09.2021

**PART-I: GENERAL INFORMATION**

1	(a)	Mine Name	:	Prism Cement Limestone Mines
	(b)	Registration Number	:	IBM/267/2011
	(c)	Category	:	Opencast
	(d)	Type of Working	:	Mechanized
	(e)	Postal address	:	Prism Cement Limestone Mines of M/s Prism Johnson Limited
		State	:	Madhya Pradesh
		District	:	Satna
		Village	:	Hinauti & Sijhata
		Taluka	:	Rampur Baghelan
		Post Office	:	Sijhata
		Pin code	:	485111
		Fax	:	NA
		email	:	registered.office@prismjohnson.in
		Phone No	:	9584464612
	(f)	Police Station	:	Rampur Baghelan
	(g)	First Opening date	:	02.05.1996
	(h)	Weekly day of rest	:	Sunday
2	Address for Correspondence		:	Rajdeep, Rewa road, Satna, MP, 485001 Mobile Number- 9584464612
3	(a)	Lease Area	:	772.067 Ha
	(b)	Period of lease	:	50 years
	(c)	Date of Expiry	:	24.03.2035
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 Fax: NA

	Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	Shri 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 Mobile Number- 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	:	Shri Shashi Shekhar Ray, Mines Manager M/S Prism Johnson Limited Rajdeep, Rewa road, Satna, MP, 485001 Mobile Number- 9589222059 email- shashi.ray@prismjohnson.in Date of appointment – 10.11.2022
	Mining Engineer Name Qualification Date of Appointment	:	Shri K. Laharish Babu Diploma in Mining Engineering with Second class mines managers certificate 06.12.2023
	Geologist Name Qualification, Date of Appointment	:	Shri Amit Biswas, M SC. & M.Tech in Geology 01-01-2020
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	MP/Satna/Lst./RMP-39/2019-20 dated 31.03.2020

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

**Exploration:**

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	2020-21: 58 Nos 2021-22: 35 Nos	There is no backlog in exploration proposal of previous years. 2020-21: 58 Nos 2021-22: 35 Nos	Nil
1b	Exploration over lease area for Geological axis 1 or 2	In 2022-23, there was no exploration proposal	Nil	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	In 2022-23, there was no exploration proposal	Nil	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Not proposed	Nil	Nil
1e	Balance reserves as on 01.04.2023	At the beginning of the year 1.4.2022, reserve was 55,645,772 tones.	Depletion of reserves during the 2022-23 was 824,824 tones. Balance reserves as on 31.3.2023 is 54,820,948 tones	Nil
1f	General remarks of Inspecting officer on geology, exploration etc.	There is no backlog in exploration proposal. The exploration level under G1 have already been established within lease area.		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development Proposed in three pits namely, New Pit (2 <sup>nd</sup> band), Eastern	Development carried out only in Eastern Block (EB-1 Pit).	Deviation has been pointed out to lessee through violation

		Block (EB-1 Pit) and Sijahata Pit (SJ-1 Pit)		letter
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil, overburden and mineral	Top soil, overburden and mineral are being benched separately.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.59 T/m <sup>3</sup>	1:0.17 T/m <sup>3</sup>	Nil
2d	Quantity of topsoil generation in m <sup>3</sup>	In 2022-23, proposal for top soil generation was 120098 cum	In 2022-23, actual generation of top soil was less i.e. 26273 cum	Deviation has been pointed out to lessee through violation letter.
2e	Quantity of overburden generation in m <sup>3</sup>	In 2022-23, proposal for overburden generation was 1765068 cum	In 2022-23, actual generation of overburden was less i.e. 114181 cum	Deviation has been pointed out to lessee through violation letter.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development carried out only in Eastern Block (EB-1 Pit). Generation of top soil and overburden was less than proposal. Deviation has been pointed out to lessee through violation letter.		

### **3. Exploitation FY 2022-23**

<b>S. N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual Work</b>	<b>Remarks</b>
3a	Number of pits proposed for production	03	01	Nil
3b	Quantity of ROM mineral production proposed	In 2022-23, the ROM production proposal was 3000011 tones	In 2022-23, the actual ROM production was less i.e., 824824 MT	Deviation has been pointed out to lessee through violation letter.
3c	Recovery of Salable/usable minerals from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	Not Proposed	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Nil	Nil
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	Nil
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	Nil
3h	Manual / Mechanized method adopted for segregation from ROM	Not Proposed	Nil	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Proposed	Carried out	Nil
3k	Provision of mining machineries in mineral benches	Mechanical Hydraulic excavator and Dumper proposed	Mechanical Hydraulic excavator and Dumper deployed	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil

3m	Total area covered under excavation /pits (Ha.)	12.93 Ha	12.93 Ha	Nil	
3n	Ore to OB ratio for the pit/mine during the year	1:0.59 T/m3	1:0.17 T/m3	Nil	
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of plan period is 183 Ha.	Total area put in use under different heads at the end of plan period is 162.82 Ha	Nil	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	3000000 tones	824775.00 tones	Nil
		2019-20	3000000 tones	824932.00 tones	
		2020-21	2584726 tones	824893.00 tones	
		2021-22	3000011 tones	824782.00 tones	
		2022-23	3000011 tones	824824.00 tones	
3q	General remarks of inspecting officer on method of mining etc.	In 2022-23, the actual ROM production was less i.e., 824824 MT. Deviation has been pointed out to lessee through violation letter.			

#### **4. Solid Waste Management-Dumping (FY2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	In 2022-23, there was no proposal for top soil and mineral reject dump. Overburden generated was proposed for backfilling.	In 2022-23, overburden generated was backfilled. No top soil or mineral reject dump was created.	Nil
4b	Location of topsoil, OB & mineral reject dumps	No Dump proposed, Concurrent utilization of Top soil over backfilling. Overburden generated was proposed for backfilling.	No Dump created, Concurrent utilization of Top soil over backfilling. Overburden generated was backfilled.	Nil
4c	Number of Dumps within lease area and outside lease area	04	04	Nil
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	Nil
4e	Number of Active & Alive dumps	Not Proposed	Nil	Nil
4f	Number of dead dumps	04	04	Nil
4g	Number of dumps established	04	04	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	Nil
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil	Nil
4j	Number of settling ponds	1	1	
4k	Specific comments of inspecting officer on waste dump management	In 2022-23, overburden generated was backfilled as per proposal. No top soil or mineral reject dump was created.		

#### **5. Solid Waste Management-Backfilling (FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full extraction of mineral before starting backfilling	Full extraction of mineral before backfilling	Nil

5b	Area under backfilling of mined out area	5.62 Ha	2.998 Ha	Deviation has been pointed out to lessee through violation letter.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of topsoil for restoration or rehabilitation of mined out area proposed	Concurrent use of topsoil for restoration or rehabilitation of mined out area was carried out	Nil
5d	Total area fully reclaimed & rehabilitated (Ha)	49.35 Ha	45.348 Ha	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Full extraction of mineral before backfilling.		

## **6. Progressive Mine Closure Plan (FY 2022-23)**

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, submitted with annual return on the portal	Yes, submitted with annual return on the portal	Nil
6b	Area available for rehabilitation (Ha)	5.62 Ha	2.998 Ha	Deviation has been pointed out to lessee through violation letter.
6c	Afforestation done (ha)	5.62 Ha	1.625 Ha	Nil
6d	No. of saplings planted during the year	14050 Nos	5125 Nos	Nil
6e	Cumulative no. of plants	Not proposed	106474 Nos	Nil
6f	Any other specific method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch & care during the year	Not Proposed	Rs 5 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i)Voids available for backfilling (L X B X D).	5.62 Ha	2.998 Ha	Deviation has been pointed out to lessee through violation letter.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	IInd band-(172x207x52)m Eastern block-(174x334x25)m	Eastern block: (280x130x25)m	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	5.62 Hect	1.625 Hect.	Deviation has been pointed out to lessee through violation letter.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not Proposed	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i)Afforestation	Not Proposed	Nil	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not Proposed	Nil	Nil

6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	Nil	Nil
6p	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Carried out	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Backfilling has not been done as per proposal. Deviation has been pointed out to lessee through violation letter.		

### **7. Mineral Conservation (FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Not Proposed	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	Nil	Nil
7c	Different grade of mineral sort out at mine	Not Proposed	Nil	Nil
7d	Any beneficiation process at mines	Not Proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Material above the threshold value is consumed for captive use.		

### **8. Environment (FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes, concurrent spread over the backfill area	Yes, concurrent spread over the backfill area	Nil
8b	Concurrent use or storage of topsoil	Yes, concurrent spread over the backfill area	Yes, concurrent spread over the backfill area	Nil
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Yes, Backfilling is done with waste material	Yes, Backfilling is done with waste material	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, Afforestation is proposed	Yes, Afforestation is conducted over backfilling area	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	Total no. of trees at the end of the year is 106474 nos.	Nil
8g	Survival rate	Proposed 80%	Actual 75 % within lease area	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water is sprayed through water tanker on the roads to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

### **9. Compliance of Rule 45 (2022-23)**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual and monthly returns have been submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under pits, reclaimed area, land use pattern for dumps etc. has been submitted along with the annual returns. 44.781 Ha under working pits; 6.385 Ha area under waste disposal; 8.760 Ha area under infrastructure; 13.380 under green belt and garland drain; 2.998 Ha area	Nil

		under backfilling	
9d	Scrutiny of Annual return on afforestation	5125 Nos of sapling planted within the lease area	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	In 2022-23, there was no generation of mineral reject.	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock of ROM is nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine price for cement grade lime is Rs 338.46/tonne	Nil
9j	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets as furnished in annual return is Rs 1771683327	Nil
9k	Scrutiny of Annual return on mining Machineries	4 nos of Backhoe, 31 Dumpers, 1 Dozzer, 1 Drill Machine etc.	Nil

<b>Details of violations observed during current inspection and compliance position of violation pointed out</b>				
Violation observed			Show cause position	
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)			

Date :

**(SUDIP RANJAN MAZUMDAR)**

Indian Bureau of Mines