

**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 Kousik Das, Mines Manager and Shri Amit Biswas, Geologist
(iv)	Date of Inspection	:	08.10.2024

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	:	raakesh.jain@prismjohnson.in
		Phone No	:	7880903888
	(f)	Police Station	:	Rampur Baghelan
	(g)	First Opening date	:	NA
	(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 JOHNSON LIMITED 305, LAXMI NIWAS APARTMENTS AMEERPET HYDERABAD- 500016
		Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	Shri Raakesh Jain Executive Director-Cement Division, Flat no 205 KALPATARU IMPERIA SANJOG CHS PHIROZSHAH MEHTA ROAD SANTAXRUZ WEST MUMBAI Mobile No-7880903888 email- raakesh.jain@prismjohnson.in Date of appointment - 17.08.2024

	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 – 20.10.2020
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Shri Kousik Das, Mines Manager M/S Prism Johnson Limited Rajdeep, Rewa road, Satna, MP, 485001 Mobile Number- 9584460385 email- shashi.ray@prismjohnson.in Date of appointment – 11.04.2024
	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.Tech in Geology 01-01-2020
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	Review of Mining Plan approved vide letter no. MP/Satna/Limestone /RMP-39/2019-20 Jabalpur 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 2022-23: Not Proposed	2020-21: 58 Nos 2021-22: 35 Nos 2022-23: Nil	There is no backlog in exploration proposal of previous years.
1b	Exploration over lease area for Geological axis 1 or 2	In 2023-24, there was no exploration proposal	2023-24: 6 Bhs have been drilled	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	In 2023-24, there was no exploration proposal	Expenditure Incurred: Rs 533388	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Not proposed	Entire lease area has been explored in G1 level of Exploration	Nil
1e	Balance reserves as on 01.04.2024	At the beginning of the year 1.4.2023, reserve was 54,820,948 tones.	The depletion of reserves during 2023-24 is estimated to be 824,385 tones. Balance reserves as on 31.03.2024 is 53,996,563 tones	Data as per annual return 2023-24
1f	General remarks of Inspecting officer on geology, exploration etc.	There is no backlog in exploration proposal. The exploration level under G-1 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 nd band), Eastern Block (EB-1 Pit) and Sijahata Pit (SJ-1 Pit)	Development carried out only in Eastern Block (EB-1 Pit).	The proposal has been reviewed in the Review of Mining Plan approved dated 26/12/2024 for the proposal period 2025-26 to 2029-30

2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil, overburden and mineral proposed	Top soil, overburden and mineral are being maintained	Nil
2c	Stripping ratio or ore to OB ratio	1:1.56 T/m3	1:1.25 T/m3	Nil
2d	Quantity of topsoil generation in m3	In 2023-24, proposal for top soil generation was 97992 cum	In 2023-24, actual generation of top soil was less i.e. 67943 cum	The proposal has been reviewed in the Review of Mining Plan approved dated 26/12/2024 for the proposal period 2025-26 to 2029-30
2e	Quantity of overburden generation in m3	In 2023-24, proposal for overburden generation was 1585448 cum	In 2023-24, actual generation of overburden was less i.e. 1038171 cum	
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). Actual work was lower than proposal due to 0.825 MTPA EC/CTO capacity. The proposal has been reviewed in the Review of Mining Plan approved dated 26/12/2024 for the proposal period 2025-26 to 2029-30.		

Exploitation

S. No	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	03 nos	01 no	Nil
3b	Quantity of ROM mineral production proposed	In 2023-24, the ROM production proposal was 2999997 tones	In 2023-24, the actual ROM production was less i.e., 824385 MT	Actual work was lower than proposal due to 0.825 MTPA EC/CTO capacity
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	Yes	Yes	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.)	169.52 Ha	141.892 Ha	Nil	
3n	Ore to OB ratio for the pit/mine during the year	1:0.56 T/m3	1:1.25 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 197.202 Ha	FA of 212.94 Ha area has been submitted in RMP approved dated 26/12/2024 for the proposal period 2025-26 to 2029-30	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	3000000 tones	824775.00 tones	The proposal has been reviewed in the Review of Mining Plan approved dated 26/12/2024 for the proposal period 2025-26 to 2029-30
		2020-21	2584726 tones	824932.00 tones	
		2021-22	3000011 tones	824893.00 tones	
		2022-23	3000011 tones	824782.00 tones	
		2023-24	2999997 tones	824385.00 tones	
3q	General remarks of inspecting officer on method of mining etc.	Opencast method of Mining with deployment of HEMM, drilling & blasting.			

Solid Waste Management-Dumping

S.No	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	In 2023-24, there was no proposal for top soil and mineral reject dump. Overburden generated was proposed for backfilling.	In 2023-24, 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	05 Nos	05 Nos	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	04 Nos	04 Nos	Nil
4f	Number of dead dumps	01 No	01 No	Nil
4g	Number of dumps established	Not Proposed	Nil	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 No	1 No	Nil
4k	Specific comments of inspecting officer on waste dump management	In 2023-24, overburden generated was backfilled as per proposal. No top soil or mineral reject dump was created.		

Solid Waste Management-Backfilling

S.No	Item	Proposals	Actual Work	Remarks
5a	Status on part or full	Full extraction of mineral	Full extraction of mineral before	Nil

	extraction of mineral from mined out area before starting backfilling	before starting backfilling	backfilling	
5b	Area under backfilling of mined out area	4.52 Ha	3.577 Ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of topsoil proposed	Concurrent use of topsoil carried out	Nil
5d	Total area fully reclaimed & rehabilitated (Ha)	54.40 Ha	52.502 Ha	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Full extraction of mineral before backfilling.		

Progressive Mine Closure Plan

S.No	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	PMCP to be submitted before 1st July of every year	PMCP report submitted timely	Nil
6b	Area available for rehabilitation (Ha)	4.52 Ha	3.577 Ha	Nil
6c	Afforestation done (ha)	4.52 Ha	Approximately 4,645 trees have been planted over 1.858 hectares of backfilled land.	Nil
6d	No. of saplings planted during the year	1130 Nos	4645 Nos	Nil
6e	Cumulative no. of plants	Not proposed	94275 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 4.65 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	4.52 Ha	1.858 Ha	The proposal has been reviewed in the Review of Mining Plan approved dated 26/12/2024 for the proposal period 2025-26 to 2029-30
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Ind band-(138x267x43) m Eastern block-(40.5x515x22) m	Eastern block: (108x329x22) m	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	4.52 Ha	1.858 Ha	-do-
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	PMCP has been submitted timely.		

Mineral Conservation

S.No	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Dispatch	ROM Dispatch	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	ROM mineral Dispatch in practice.		

Environment (FY 2023-24)

S.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	Carried out	Nil
8b	Concurrent use or storage of topsoil	Concurrent use proposed	Concurrent use carried out	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	Proposed	Carried out	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Carried out	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Proposed	Total no. of trees at the end of the year is 94,275 nos.	Nil
8g	Survival rate	Proposed 80%	Actual 68%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual return for 2023-24 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. 141.892 Ha under working pits; 6.385 Ha area under waste disposal; 5.520 Ha area under infrastructure; 33.144 Ha. under green belt and garland drain; 3.577 Ha area	Nil

		under backfilling during the year	
9d	Scrutiny of Annual return on afforestation	4645 Nos of sapling planted within the lease area	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	In 2023-24, 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	Cost of production is Rs 377.18 per tonne	Nil
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets is Rs 1781566839s	Nil
9k	Scrutiny of Annual return on mining Machinerics	5 nos of Backhoe, 34 Dumpers, 1 Dozzer, 2 Drill Machine etc.	Nil

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
Nil			

Date :

(SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines