

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

Mine code:38MPR35137

(i)	Name of Inspecting officer	:	Mr. Ibrahim Sharief
(ii)	Designation	:	DCOM, IBM Jabalpur
(iii)	Accompanying mine official with Designation	:	Mr. Vinod Shrivastava, Geologist Mr. Kousik Das, Mines Manager
(iv)	Date of Inspection	:	23.08.2024
(v)	Previous Inspection date	:	24.08.2023

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	:	Prism Cement Limestone Mines
	(b)	Registration Number	:	IBM/267/2011 Mine Code 38MPR35137
	(c)	Category	:	Opencast fully mechanized Category A mine
	(d)	Type of Working	:	Mechanized
	(e)	Postal address	:	Prism CementLimestone mines of M/s Prism Johnson Limited
		State	:	Madhya Pradesh
		District	:	Satna
		Village	:	Hinauti
		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	:	28.09.1996
	(h)	Weekly day of rest	:	Sunday
2		Address for Correspondence	:	Rajdeep, Rewa road, Satna, MP, 485001 Telephone 07672-432600
3	(a)	Lease Area	:	253.326 Ha
	(b)	Period of lease	:	50years
	(c)	Date of Expiry	:	27.09.2046
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

	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	:	Mr. 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
	Mining Engineer Name Qualification Date of Appointment	:	Mr. Manukonda Bharath B Tech Jawaharlal Nehru Technological University Hyderabad Date of appointment –09.05.2022
	Geologist Name Qualification, Date of Appointment	:	Shri Vinod Shrivastava M.Tech in Applied Geology 20.10.2019
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	MP/Satna/Limestone/RMP10/2021-22/5578 Dated 28.07.2021

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration:

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	No Proposal	Not Applicable	-
1b	Exploration over lease area for Geological axis 1 or 2	No Proposal	No Proposal	-
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No Proposal	No Proposal	-
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	No Proposal	Entire Potential area had been explored in G1 level	-
1e	Balance reserves as on 01.04.2024	42,200,609 tones	42,200,609 tones	-
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire Potential area had been explored in G1 level		

Development(2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	498980E to 499568E 2717448N to 2718494N	498938E to 499650E 2717455N to 2718498N	Limestone production has occurred in the proposed area, &development has extended well within & as per proposal.

2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Top soil, overburden and mineral is being benched separately.	No Top soil is available only second band working is going on in already broken area.
2c	Stripping ratio or ore to OB ratio	1:0.75 Ore: OB Ton:Cum	1:0.73 Ore: OB Ton:Cum	Well within the proposal
2d	Quantity of topsoil generation in m3	No proposal	0	No Top soil is available only second band working is going on in already broken area.
2e	Quantity of overburden generation in m3	1633382 m3	1600495 m3	-
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is being carried out as per proposals		

3. Exploitation

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	W-Pit
3b	Quantity of ROM mineral production proposed	2175000 Tonnes	2174401Tonnes	-
3c	Recovery of Salable/usable minerals from ROM production	2175000 Tonnes	2174401Tonnes	-
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not Applicable	Cement grade limestone generated
3f	Quantity of sub-grade mineral generation	No proposal	Nil	All the low-grade materials are consumed using sweetener
3g	Grade of sub-grade mineral generation	No proposal	Not Applicable	No sub grade
3h	Manual/Mechanized method adopted for segregation from ROM	No	No	No beneficiation required
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Not Applicable	Mineral above the threshold value are consumed, No beneficiation required
3j	Provision of drilling & blasting in mineral benches	Drilling & Blasting with DTHwith NONEL and SME in mineral benches is to be carried out	Done as proposed	Controlled blasting technique adopted
3k	Provision of mining machineries in mineral benches	Shovel0 2.5 cum- 5 No., 2.6 cum- 2 No., 0.9 cum- 1 No., Dumper- 50 T- 10 No., Drill- 110 mm- 3 No., Dozer- 324 HP- 1 No., Road roller- 15 T- 1 No., Motor Grader- 154 HP-1 No. Pumps- 3 No.	The above HEMM are deployed in the lease.	-

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Suitable	Yes Suitable	As per proposal HEMM working going on	
3m	Total area covered under excavation /pits (Ha.)	8.40 Hectare	8.40	No fresh area excavated. Working is entirely within already excavated area	
3n	Ore to OB ratio for the pit/mine during the year	0.53:1	0.54:1	Within proposal	
3o	Total area put in use under different heads at the end of year	221.884 Hectare	221.884 Hectare	The mining activity in this ML is entirely within already excavated area	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	2175000	2174244	As per the proposal
		2020-21	2175000	2174769	
		2021-22	2175000	2173796	
		2022-23	2175000	2174309	
		2023-24	2175000	2174401	
3q	General remarks of inspecting officer on method of mining etc.	Mining operations are being carried out by fully mechanized method of mining with deep hole drilling and Blasting is adopted			

4. Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No Proposal during this year	No Top soil is under operation. Mineral reject is unavailable. OB is being backfilled	Working is entirely within already excavated area
4b	Location of topsoil, OB & mineral reject dumps	Topsoil:- No Proposal Waste dump:-No Proposal No Mineral reject	No Top soil is under operation. Mineral reject is unavailable. OB is being backfilled and matured backfilling area is taken for Solar power plan	Apart from waste rock from development bench, temporary waste dump is being rehandled for backfilling
4c	Number of Dumps within lease area and outside lease area	No Proposal during this year	No Proposal during this year	Concurrent backfilling
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No Valid Proposal	Not Applicable	No dump created in the reporting year
4e	Number of Active & Alive dumps	Nil	NIL	
4f	Number of dead dumps	Temporary dump was created, rehandling was proposed for backfilling	Temporary dumps being removed for backfilling	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No new dump created	No new dump created	
4i	Length of Retaining wall or garland drain all along dump	No new dump created	No new dump created	
4j	Number of settling ponds	No Proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	Waste dump Management is being done as proposed
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5. Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling is to be carried out in mined out area.	Backfilling is carried out over mined out area.	
5b	Area under backfilling of mined out area	4.4 ha	6.9ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent backfilling	Concurrent backfilling followed by installation of solar power plant	
5d	Total area fully reclaimed & rehabilitated (Ha)	67.126 ha	67.126 Ha	Reclaimed by backfilling
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling is carried out over mined out area. So for 67.127 Ha area is backfilled		

6. Progressive Mine Closure Plan

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)	7.003	6.07	
6c	Afforestation done (ha)	3	2.67	
6d	No. of saplings planted during the year	6500	6665	-
6e	Cumulative no. of plants	32790	93007	-
6f	Any other specific method of rehabilitation	No proposal	Solar power green energy plant of 7.5 MW is established over backfilled area	-
6g	Cost incurred on watch & care during the year	Rs 7.5 Per Plant	Rs.6,97,552.5	Water tanker, Manure and manpower cost
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	850X390X50 m	870X350X50	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	4.4 Ha	6.9 Ha	Concurrent backfilling
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	NIL	NIL	Void not available

6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	6.07 Ha area has been covered by Solar power green energy plant installation	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Nil	6665 No of saplings planted for green belt development	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Nil	Nil	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	For environmental monitoring, air, water, and noise are monitored from time to time, both internally and externally.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Solar power plant is established over backfilled area. Plantation is being carried to improve aesthetic beauty.		

7. Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Not Proposed	Not Applicable	
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	
7d	Any beneficiation process at mines	Not Proposed	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Limestone upto the threshold value is being utilised and no mineral reject is generated. Low grade mineral is consumed blending with high grade ore		

8. Environment (FY 2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA	Working within already broken area in Second band
8b	Concurrent use or storage of topsoil	No proposal	NA	Soil not working
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No proposal	NA	No mineral reject is generated
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	No proposal	Yes	Backfilling under progress
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	Plantation is being done over backfilled area
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	Yes	
8g	Survival rate	80%	About 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water is sprayed on the roads to control airborne dust. Permanent water sprinkler is installed on haul road	

8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation is being carried out to improve aesthetic beauty
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9. Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	The monthly return has to be filed online through the portal before the due date	The Annual and Monthly returns had been filed before the due date.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, and Manager to be appointment as mentioned below: Shri Kousik Das, Manager, Shri Manukonda Bharat, Mining Engineer and Shri Vinod Shrivastav, Geologist	All the officers as mentioned had been employed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i. Covered under current (O-C) Workings- 192.27 Ha, ii. Reclaimed-rehabilitated- 67.126 Ha, iii. Used for waste disposal- 9.995 Ha, iv. Occupied by plant, buildings, residential, welfare buildings and roads-3.257 HA, v. Used for any other purpose- 9.402 Ha, vi. Work done under progressive mine closure plan during the year-7.003 Ha	The annual return on land use patterns for areas under pits, reclaimed areas, dumps, etc., is to be submitted in 2023-24.
9d	Scrutiny of Annual return on afforestation	According to the proposal, plantation was conducted and 6665 Nos of saplings planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	NA
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Nil	NA
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	The sale price, including the calculation of Ex. mine price and production cost, - Rs. 436.72/-	
9i	Scrutiny of Annual return on Fixed assets	Fixed assets is provided in the annual return for 2023-24- Rs. 1363843544/-	
9k	Scrutiny of Annual return on mining Machineries	Shovel 0 2.5 cum- 5 No., 2.6 cum- 2 No., 0.9 cum- 1 No., Dumper- 50 T- 10 No., Drill- 110 mm- 3 No., Dozer- 324 HP- 1 No., Road roller- 15 T- 1 No., Motor Grader- 154 HP-1 No. Pumps- 3 No.	The above HEMM are deployed in the lease.

Details of Validations observed during current inspection and compliance position of earlier violation pointed out: - Nil

Date:

Name: IBRAHIM SHARIEF

Designation: Deputy Controller of Mines