

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

Mine code:
38MPR35331

(i)	Name of Inspecting officer	:	Shri Kathroju Naveen
(ii)	Designation	:	Sr. Assistant Controller of Mines
(iii)	Accompanying mine official with Designation	:	Kousik Das, Mines Manager Amit Biswas- Geologist Sunil Kumar Upadhayay, Geologist Santosh kumar, Geologist
(iv)	Date of Inspection	:	08.07.2024
(v)	Previous Inspection date	:	17.08.2023

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	:	Bandarkha Limestone Mines
	(b)	Registration Number	:	IBM/267/2011 38MPR35331
	(c)	Category	:	Opencast fully mechanized Category A mine
	(d)	Type of Working	:	Mechanized
	(e)	Postal address	:	Bandarkha Limestone mines, M/s- Prism Johnson Limited, Vi-Mankahari Po-Bathia, Rampur Baghelan, District: Satna, State: Madhya Pradesh, Pin- 485111. Phone- 07672-275301/02, 275621/22 Fax-07672-275303
		State	:	Madhya Pradesh
		District	:	Satna
		Village	:	Bandarkha
		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	:	04.09.2017
	(h)	Weekly day of rest	:	Sunday
2		Address for Correspondence	:	Rajdeep, Rewa road, Satna, MP, 485001 Telephone 07672-432600
3	(a)	Lease Area	:	40.236 Ha
	(b)	Period of lease	:	20 years
	(c)	Date of Expiry	:	27.02.2031
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: 07672 – 275303
	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, Agent & VP Mines & MRM M/S Prism Johnson Limited Rajdeep, Rewa road, Satna, MP, 485001 Telephone 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	:	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	:	Kamlesh Kumar B.E. Mining Date of appointment – 16.09.2021
	Geologist Name Qualification, Date of Appointment	:	Narayan Prasad Shukla MSc in Geology 11-02-2024
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	MP/Satna/Limestone/RMP-54/2019-20 Dated 21.07.2020

Exploration

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	NA	
1b	Exploration over lease area for Geological axis 1 or 2	No proposal	Lease area explored under G1	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	By the Prism. Johnson	
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Not proposed	40.236 ha area under G1 level.	
1e	Balance reserves as on 01.04.2024	30,30,000 Tones	3830503 Tones	
1f	General remarks of Inspecting officer on geology, exploration etc.	As per the last approved mining Plan dated the reserves available as on 01.04.2020 were 47,79,425 MT out of which it is proposed to produce 17,40,000 T out of which it was reported as 9,48,922 T produced thus the reserves available as on 01.04.2024 are 38,30,503T.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Bandarkha Pit No. 2	Bandarkha Pit No. 2	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Top soil, overburden and mineral is being benched Separately.	
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.05	
2d	Quantity of topsoil generation in m ³	88216	12066	
2e	Quantity of overburden generation in m ³		-	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Separate benches in top soil and OB found.		

Exploitation

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	Pit No. 02
3b	Quantity of ROM mineral production proposed	500000 Tonnes	229924 Tonnes	
3c	Recovery of Salable/usable minerals from ROM production	500000 Tonnes	229924 Tonnes	
3d	Quantity of mineral reject generation	79394 Cu.m	12066 Cu.m	Violation is pointed out under Rule 11(1).
3e	Grade of mineral reject generation and threshold value declared	CaO content more than 34% and MgO content less than 5%.	CaO content more than 34% and MgO content less than 5%.	
3f	Quantity of sub-grade mineral generation	0	0	
3g	Grade of sub-grade mineral generation	NA	NA	No sub Grade mineral generated
3h	Manual/Mechanized method adopted for segregation from ROM	No	No	

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No	No	
3j	Provision of drilling & blasting in mineral benches	DTH	DTH	
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.)	2.205 Hectare	0.6980 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:0.18	1:0.05	
3o	Total area put in use under different heads at the end of year	Proposed 13.593 ha for th five years period.	10.9680 Hectare	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	240000	143684
		2020-21	240000	239923
		2021-22	500000	239685
		2022-23	500000	239390
		2023-24	500000	229924
3q	General remarks of inspecting officer on method of mining etc.	Against the proposed production of 500000 T only 229924 T produced and the deviation in the OB handling id observed for the reporting year against which the violation is pointed out under Rule 11(1).		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes existing dump	No new dump has been created.	The entire overburden is being used for backfilling..
4b	Location of topsoil, OB & mineral reject dumps	Topsoil:- N2718723 N2718776/E498022- E498154 Waste dump:- No Proposal No Mineral reject	Top soil: No new dump is created. Waste dump:- NA No Mineral reject	
4c	Number of Dumps within lease area and outside lease area	03(with in the lease area)	0	The entire overburden is being used for backfilling.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Not Applicable	
4e	Number of Active & Alive dumps	03	03	The entire overburden is being used for backfilling.
4f	Number of dead dumps	-	-	
4g	Number of dumps established	-	-	The entire overburden is being used for backfilling.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	No new dump is created.	The entire overburden is being used for backfilling.
4i	Length of Retaining wall or garland drain all along dump	1112m	1112m	
4j	Number of settling ponds	No Proposal of Settling Pond	No Proposal	
4k	Specific comments of inspecting officer on waste dump management	No new dump created in this proposal period Backfilling is under progress		

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	No Proposal	Not Applicable	
5b	Area under backfilling of mined out area	0.58 Ha	0.26 Hect	Backfilling has not been carried out as proposed against which the violation is pointed out under Rule 11(1).
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	For rehabilitation, topsoil will be spread over the backfilling, and trees will be planted on top of it.	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling has not been carried out as proposed against which the violation is pointed out under Rule 11(1).		

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 has already been submitted along with the annual FY-2023-24	
6b	Area available for rehabilitation (Ha)	0.79 Ha	0.26 HA	
6c	Afforestation done (ha)	0.79 Ha	0.26 Ha	
6d	No. of saplings planted during the year	500 Nos	576 Nos	
6e	Cumulative no. of plants	As per proposal	10075 Nos	
6f	Any other specific method of rehabilitation	No Proposal	No Proposal	
6g	Cost incurred on watch & care during the year	Not proposed	Rs. 75,562	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	0.58 hect.	0.26 Hect	Backfilling has not been carried out as proposed against which the violation is pointed out under Rule 11(1).

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	0.58 hect.	0.26 hect.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	0.79 hect.	0.26 hect	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	-	-	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	-	-	
6m	Compliance of Rehabilitation of waste land within lease (i)Afforestation	0	0	
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 pointed out under Rule 11(1).		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Not Proposed	Not Proposed	Limestone below the threshold value is being designated as waste and utilized for backfilling & Dumping.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	Not Proposed	
7c	Different grade of mineral sort out at mine	Not Proposed	Not Proposed	
7d	Any beneficiation process at mines	Not Proposed	Not Proposed	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting not proposed in the subject Mine.		

Environment

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 (Proposed for dumping)	Yes (Topsoil is being used to spread 1 meter over the backfilling)	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Waste rock is not being generated.	Waste rock is not being generated.	Sub soil is considered as waste
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to	Yes	Yes	No fines/rejects

	its original use			is generated
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)	Yes	Yes	
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	To soil generated in concurrently utilizing for plantation purpose.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Kousik Das-Mines Manager Kamlesh Kumar-Mining Engineer Narayan Prasad Shukla-Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern area are Pit – 5.722 Ha. Reclaimed – 0.851 ha Waste disposal – 1.979 Ha. Infrastructure -0.500 Ha. Green Belt – 2.767 ha	As per AR
9d	Scrutiny of Annual return on afforestation	i) Number of trees planted during the year 575 within the lease cumulative at end of the year 10075 saplings.	
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	NIL	Captive use not for sale
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex. Mine Price – Rs 374.36 Cost of Production – Rs 374.36	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* (₹ 203681716)	
9k	Scrutiny of Annual return on mining Machineries	BACK HOE - 2.900 CUM - 2 DUMPER - 25.000 TONNE - 06 ROCK DRILL (NON-ELEC.) - 110.000MM - 1 PUMPS - 13300.000 L/MN - 1	

S.No	Violation Under Rule	Issued on	Compliance Received	SCN Issued on	Compliance Received
01	11(1)	02/09/2024	17/10/2024	--	--
02	45(7)	02/09/2024	--	12/11/2024	03/12/2024

Kathroju Naveen
Senior Assistant Controller of Mines