

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/CHT/LST-11

**Mine code :** 38RAJ09009

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Raju Jain, Mine Manager and Sh Kuldeep Chobisa, G  
Official with  
Designation
- (iv) Date of Inspection : 23-OCT-23
- (v) Prev.inspection date : 29-JUL-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHATKOTRI**
- (b) **Registration NO.** : **IBM/226/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : CHITTORGARH  
Village : NIMBAHERA  
Taluka : NIMBAHERA  
Post office : NIMBAHERA  
Pin Code : 312601  
FAX No. : +91-1477-307333  
E-mail : nbh.mines@wondercement.com  
Phone : 91-1477-307000, 0294-66022:
- (f) Police Station : NIMBEHERA
- (g) First opening date : 16-JAN-11
- (h) Weekly day of rest : SUN
2. Address for : R.K. NAGAR,  
correspondance : NIMBEHERA  
DIST. - CHITTORGARH (RAJ.)
3. (a) Lease Number : RAJ3224
- (b) Lease area : 740.93
- (c) Period of lease : 50
- (d) Date of Expiry : 08-SEP-58
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : WONDER CEMENT LTD  
 R.K. NAGAR POST NIMBAHERA  
 DIST. - CHITTORGARH (RAJ.)  
 CHITTORGARH RAJASTHAN  
 Phone:  
 FAX :

Owner : P. PATIDAR  
 WONDER CEMENT LTD. VILLAGE  
 - NIMBAHERA DIST. -  
 CHITTORGARH (RAJ.)  
 CHITTORGARH RAJASTHAN  
 Phone:  
 FAX :

Agent : Nitin Jain  
 R, K, Nagar, Nimbahera  
 CHITTORGARH RAJASTHAN  
 Phone: 01477 277777  
 FAX : 01477 277333

## Mining Engineer

Name : Sunil Bora, Full Time  
 Qualification : B.E. Mining  
 Appointment/ Termination date : 24-JUN-12

## Geologist

Name : Kuldeep Chobisa, Full Time  
 Qualification : M.Sc.(Geology)  
 Appointment/ Termination date : 01-APR-14

## Manager

Name : Shri Raju Jain  
 Qualification : BE Mining  
 Appointment/ Termination date : 11-MAR-21

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	20-JUL-11
		Mining Scheme rule 12 MCDR1988	08-JUL-13
		MP review under 17(1) MCR 2016	19-DEC-18
		MP modif under 17(3) MCR 2016	18-NOV-22

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration during previous year 2021-22.	No exploration during previous year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY) 2022-23.	No exploration during reporting year (RY) 2022-23.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable..	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Not applicable.	Nil
1e	Balance reserve as on 01/04/20	Reserve and Resource: 392.38 and 199.11million tons respectively. (as on 01/04/2022).	Reserve and Resource: 384.53 and 199.11 million tons respectively. (as on 01/04/2023).	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	Not applicable.	Geologically area forms a syncline.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northing - 2727480 to 2728733 and Easting - 460070 to 461200	Development observed within approved limit for the RY.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal of top soil, OB/waste and Mineral.	Top soil, OB/waste and mineral removed separately.	Nil

2c	Stripping ratio or ore to OB ratio	1: 7.7782 Ton/CuM	1: 62.5964 Ton/CuM	Violation of rule 11(1) of MCDR, 2017 issued for deviation in stripping ratio.
2d	Quantity of topsoil generation in m3	190467 m3	159780 m3	Due to less production, area utilized was less and accordingly topsoil generation was less.
2e	Quantity of overburden generation in m3	1868051 m3	124744 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of development has been proposed.	Opencast method of development is being practiced.	Development method proposed is suitable for the kind of deposit.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Nil
3b	Quantity of ROM mineral production proposed	1,45,30,000 MT	78,54,550 MT	Less production due to less requirement from the captive cement plant.
3c	Recovery of sailable/usable mineral from ROM production	1,40,94,100 MT	78,08,535 MT	Less production due to less requirement from the captive cement plant.
3d	Quantity of mineral reject generation	4,35,900 MT (Screen Reject)	46,015 MT (Screen Reject)	Nil
3e	Grade of mineral rejects generation and threshold value declared.	<34% CaO	<34% CaO	Nil
3f	Quantity of sub grade mineral generation.	No proposal of sub-grade generation.	Not applicable.	Nil
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized (crushing and screening).	Mechanized (crushing and screening).	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling by 114 mm dia DTH are done as per the drill machine. For blasting slurry cap sensitive explosives, ANFO and SME to be used.	Drilling and blasting are done as per the proposal.	Nil
3k	Provision of mining machineries in mineral benches	Excavator, drill machine, dozer & Tipper etc.	Excavator, drill machine, dozer & Tipper etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the bench was proposed to 10 meter.	Height of benches proposed is suitable for method of mining proposed in MRMP.	Nil
3m	Total area covered under excavation/pits	125.04 Ha.	114.40 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 7.7782 Ton/CuM	1: 62.5964 Ton/CuM	Violation of rule 11(1) of MCDR, 2017 issued for deviation in stripping ratio.
3o	Total area put in use under different heads at the end of year	211.11 hectare.	156.22 hectare.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19:14100000 2019-20:17509883 2020-21:20354908 2021-22:18636983 2022-23:14530000	2018-19:7519942 2019-20:7703170 2020-21:8003038 2021-22:7203581 2022-23:7854550	All figures in metric tons.

3q	General remarks of inspecting officers on method of mining etc.	Opencast method of Mining has been proposed.	Opencast method of mining is being practiced.	Method of mining proposed is suitable for the type of deposit.
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#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps for topsoil, OB/IB & screen reject.	Separate dumping of topsoil, OB/IB & screen reject.	Nil
4b	Location of topsoil, OB and mineral reject dumps	The stacking of top soil and dumping of the screen reject was proposed near boundary pillar H. Dumping of the waste was proposed in western direction of existing waste dump 2.	The dumping of the waste, top soil and screen reject has been observed over non-approved area.	Violation of rule 11(1) of MCDR, 2017 issued for the deviation in location of waste, screen and top soil dumping.
4c	Number of dumps within lease area and outside of lease area	Total 5 dumps within lease area.	Total 5 dumps observed within lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	3 dumps within UPL and 2 dumps outside UPL.	3 dumps within UPL and 2 dumps outside UPL.	Nil
4e	Number of active and alive dumps.	4 nos.	4 nos.	Nil
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil
4g	Number of dumps established.	01 nos.	01 nos.	Old waste dump-1 established partially.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	Proposed retaining wall not constructed.	Violation of rule 11(1) of MCDR, 2017 issued for non-construction of retaining wall.

4i	Length of Retaining wall or garland drain all along dumps	250 Mts of retaining wall and 1960 mts of garland drain.	Proposed retaining wall not constructed.	Violation of rule 11(1) of MCDR, 2017 issued for non-construction of retaining wall.
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management	The stacking of top soil and dumping of the screen reject was proposed near boundary pillar H. Dumping of the waste was proposed in western direction of existing waste dump 2.	The dumping of the waste, top soil and screen reject has been observed over non-approved area.	Violation of rule 11(1) of MCDR, 2017 issued for the deviation in location of waste, screen and top soil dumping.

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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal of part or full extraction of mineral.	Not applicable as no proposal.	Nil
5b	Area under backfilling of mined out area	No proposal.	No backfilling during reporting year.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil for plantation.	Top soil generated used for plantation purpose.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not applicable.	Top soil of 159780 m3 was generated and utilized for the RY.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	Nil.	No area matured for backfilling.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2022-23 has been submitted.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	Nil
6c	afforestation done (ha).	1.0 Ha	1.36 Ha	Nil
6d	No. of saplings planted during the year	1000 Nos.	3409 Nos.	Plantation number also includes gap filling plantation.
6e	Cumulative no .of plants	Not Specified.	65620 Nos.	Nil
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	Not Specified.	Rs. 1022700	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal.	Not applicable.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal.	Not applicable.	Nil



6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1000 Nos.	3409 Nos.	Plantation number also includes gap filling plantation.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 Ha	1.36 Ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring of the environment parameters.	Monitoring is being done as per proposal.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 1.0 hectare with 1000 nos of saplings was proposed to plant.	An area of 1.36 hectare with 3409 number of saplings were planted during RY.	PMCP compliance is satisfactory.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM processing through Crushing and Screening.	ROM is being processed through Crushing and Screening.	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized (Crushing and screening)	Mechanized (Crushing and screening)	Nil
7c	Different grade of mineral sorted out at mines.	Cement Grade limestone and screen reject.	Cement Grade limestone and screen reject.	Nil
7d	Any beneficiation process at mines	No proposal.	Not applicable.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM processing through Crushing and Screening.	ROM is being processed through Crushing and Screening.	No issue related to mineral conservation.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil. Temporary storage if not in use.	Top soil generated used for plantation purpose.	Nil
8b	Concurrent use or storage of topsoil	Concurrent use of top soil for plantation.	Top soil generated used for plantation purpose.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for Overburden and screen reject.	Separate dump for Overburden and screen reject.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 1.0 hectare with 1000 nos of saplings was proposed to plant.	An area of 1.36 hectare with 3409 number of saplings were planted during RY.	Nil
8g	Survival rate	80%	85.07%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road etc.	3 nos. water tankers are being used for water spraying on roads.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	An area of 1.0 hectare with 1000 nos of saplings was proposed to plant	An area of 1.36 hectare with 3409 number of saplings were planted during RY.	The general aesthetic beauty in and around lease area is satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017 monthly and annual returns to be submitted.	Annual and Monthly returns for RY have been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Sh Sunil Bora, Geologist: Sh Kuldeep Chaubisa and Manager: Sh Raju Jain	Manager, Mining Engineer and Geologist appointed.	Nil

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 114.40 Hect., Waste Dump-19.00 Hect., Plant, buildings, residential, welfare buildings & roads-22.820 Hect., Plantation-36.260 Hect.	The information on land use furnished appears in order.	Nil
9d	Scrutiny of Annual return on afforestation	Within ML-3409 Nos Outside ML-6466 Nos	Found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	No mineral reject generation during RY.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and graded closing stock: Nil	Found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price and cost of production: Rs 256.00/tons.	Captive use.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs 1564386556	Appears in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Shovel, Back Hoe, Dumper, front end loader, rock drill, Drilling Machine, Water Tanker, Explosive van, Pumps etc.	Shovel, Back Hoe, Dumper, front end loader, rock drill, Drilling Machine, Water Tanker, Explosive van, Pumps etc.	Nil

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	01-DEC-23			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines