

**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 : **CB01**) **Sh. Chandresh Bohra**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Raju Jain, Mine Head and Sh. Sunil Bora, Mine En
Official with
Designation
- (iv) Date of Inspection : 14/03/2024
- (v) Prev.inspection date : 23/10/2023

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 : 16/01/2011
- (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 : 08/09/2058
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/ : 24/06/2012
 Termination date

Geologist

Name : Kuldeep Chobisa, Full Time
 Qualification : M.Sc.(Geology)
 Appointment/ : 01/04/2014
 Termination date

Manager

Name : Shri Raju Jain
 Qualification : BE Mining
 Appointment/ : 11/03/2021
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	20/07/2011
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	08/07/2013
		MP review under 17(1) MCR 2016	19/12/2018
		MP modif under 17(3) MCR 2016	18/11/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Not applicable	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Not applicable	55 boreholes which was proposed during the year 2020-21 and 2022-23 have been carried out as per proposal.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal	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.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northing - 2727410 to 2728790 Easting - 460010 to 460820	Northing - 2727500 to 2728785 Easting -460020 to 460820	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	1:0.7	1:0.3	Violation has already raised in earlier inspection in the current year.
2d	Quantity of topsoil generation in m3	130119 m3	97517.77 m3	Due to less production, area utilized was less and topsoil less generated
2e	Quantity of overburden generation in m3	749396 m3	247732.4 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	69,53,983 MT	Violation has been raised in this regard.
3c	Recovery of sailable/usable mineral from ROM production	1,40,94,100 MT	69,10,368 MT	Nil
3d	Quantity of mineral reject generation	4,35,900 MT	43,615 MT	Less due to less production
3e	Grade of mineral rejects generation and threshold value declared.	<34% CaO	<34% CaO,	Nil
3f	Quantity of sub grade mineral generation.	No proposal	None	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal	Not applicable	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted for segregating from ROM	Mechanised method adopted for segregating from ROM	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Sampling at regular interval	Nil
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling & blasting as per permission from DGMS	Deep hole drilling & blasting as per permission from DGMS	Nil
3k	Provision of mining machineries in mineral benches	HEMM excavator & dumpers are deployed.	HEMM excavator & dumpers are deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 meter high benches are proposed for mineral and no separate benches in OB	Height of benches in overburden and mineral suitable for method of mining proposed in Modification of Review of Mine Plan	Nil
3m	Total area covered under excavation/pits	138.14 Ha	116.00 Ha (up to Feb. 2024)	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.7	1:0.3	Violation has already raised in earlier inspection in the current year.
3o	Total area put in use under different heads at the end of year	227.86 Ha	174.51 Ha.	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 2023- 24:14530000	2018-19:7519942 2019-20:7703170 2020-21:8003038 2021-22:7203581 2022-23:7854550 2023-24:6953983(upto feb 2024)	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 & mineral reject	Separate dumps for topsoil, OB/IB & mineral reject	Nil
4b	Location of topsoil, OB and mineral reject dumps	Topsoil : [Northing - 2727245 to 2727475 Easting - 460895 to 461945] OB/IB Dump : [Northing- 2726750 to 2727120 Easting - 460000 to 460320]	Topsoil : [Northing - 2727245 to 2727475 Easting - 460895 to 461945] OB/IB Dump : [Northing- 2726765 to 2726955 Easting - 460060 to 460320]	within the proposed area
4c	Number of dumps within lease area and outside of lease area	Total 4 Nos Dumps proposed (All are within the lease area)	Total 4 Nos Dumps has been carried out as per proposal	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2 dumps are situated outside the UPL limit , other 2 are within the UPL	2 dumps are situated outside the UPL limit , other 2 are within the UPL	Nil
4e	Number of active and alive dumps.	02	02	Nil
4f	Number of dead dumps.	01	01	Nil
4g	Number of dumps established.	01	01	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes, Maintained	Nil

4i	Length of Retaining wall or garland drain all along dumps	200 Mtrs stone wall bottom of waste dump 1880 Mtrs garland drain	100 mtrs stone wall bottom of waste dump 1900 Mtrs Garland Drain	Due to less dump area as per proposal.
4j	Number of settling ponds	No proposal	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue has been observed related to waste dump management.

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.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal of backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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. PMCP report for the year 2023-24 yet to be submitted.	Nil
6b	Area available for rehabilitation (ha) .	1.0 Ha	1.00 Ha	Nil
6c	afforestation done (ha).	1.00 Ha	1.00 Ha	Nil
6d	No. of saplings planted during the year	1000 Nos.	2050 Nos.	More plants in less area due to gap filling also.
6e	Cumulative no .of plants	No specific proposal	67670 Nos.	Nil
6f	Any other method of rehabilitation	No proposal	Not applicable	Nil
6g	Cost incurred on watch and care during the year	Rs. 300000	Rs. 615000	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) Afforestation 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	No proposal	Not applicable	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable	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.			PMCP compliance is satisfactory.

Mineral Conservation:

Sl.No.	Item	Proposals	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.

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 1.0 hectare with 2050 number of saplings were planted during RY.	Nil
8g	Survival rate	No specific proposal.	84.61%	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			The general aesthetic beauty in and around lease area is satisfactory.

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 year 2022-23 have been submitted. Annual for year 2023-24 yet to be 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

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)	No mineral reject generated during the year 2022-23	No mineral reject generated during the year 2022-23	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.	Found in order	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.	Found to be correct	Nil

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)	05/04/2024			

Date :

(Sh. Chandresh Bohra)

Indian Bureau of Mines