

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-11

Mine code : 38RAJ09009

- (i) Name of the Inspecting : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh. Raju Jain, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 21-AUG-24
- (v) Prev.inspection date : 13-AUG-19

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 : Shri 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-JUN-12
 Termination date

Geologist

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

Manager

Name : Sh.Raju Jain
 Qualification : BE Mining & FCC
 Appointment/ : 11-MAR-21
 Termination date

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the previous year 2022-23.	None during the previous year 2022-23.	No Backlog of previous year.
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2023-24.	None done durin the year 2023-24	Not applicable.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the year 2023-24.	No proposal during the year 2023-24, hence not applicable.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal of balance area to be explored under G1/G2 level.	Not applicable.	Total lease area - 740.930 Ha, Mineralised area - 365.00 Ha., Non-Mineralised area- 375.93 Ha. Mineralised area has already been explored under G1 level.
1e	Balance reserve as on 01/04/20	No proposal of balance resreve has been given.	The position of resreve and resources as on 01.04.2024 111-376.9544 million tons, 211 - 199.1145 million tons	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed in the mine related to geology & exploration. Entire mineralised area has already been explored under G1 level.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northing - 2727461.72 to 2728781.08 & Easting - 460019.82 to 461516.16	Within proposed limit.	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate benches in top soil & OB, only mineral benches having 10m was proposed.	No separate benches in top soil & OB, only mineral benches having 10m was observed.	Nil
2c	Stripping ratio or ore to OB ratio	2023-24: 7.76:1 (ton:ton)	2023-24: 10.63:1 (ton:ton)	During the year 2023-24, the Ore to OB ratio was proposed 7.76 whereas actual Ore to OB ratio was achieved 10.63 it shows that proportionate mine development has not been carried out as per proposal, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 23.09.2024.
2d	Quantity of topsoil generation in m3	2023-24: 130119 m3	2023-24: 97517.77 m3	Due to less production, less mine development has been carried out and less topsoil less generated with respect to proposal.
2e	Quantity of overburden generation in m3	2023-24: 749396 m3	2023-24: 284782.80 m3	This is OB/IB quantity as no separate benches of OB was there. Proposed western part of Mines was not developed due to less production hence OB/IB quantity was generated less than proposed quantity.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During the year 2023-24, the Ore to OB ratio was proposed 7.76 whereas actual Ore to OB ratio was achieved 10.63 it shows that proportionate mine development has not been carried out as per proposal, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 23.09.2024.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2023-24: One	2023-24: One	Nil
3b	Quantity of ROM mineral production proposed	2023-24: 1,45,30,000 T	2023-24: 75,69,346 T	For less ROM production with respect to proposal, violation of Rule 11(1) of MCDR 2017 was issued during the previous inspection vide letter dated 05.04.2024.
3c	Recovery of sailable/usable mineral from ROM production	2023-24: 14094100T	2023-24: 7524696T	Nil

3d	Quantity of mineral reject generation	2023-24: 435900T	2023-24: 44650T	During the year 2023-24, total 435900T (which is 3% of total ROM quantity 14530000T) mineral reject generation was proposed whereas actual mineral reject generated 44650T (which is 0.59% of total ROM quantity 7569346T), it shows that no proper assessment of mineral reject generation has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 23.09.2024.
3e	Grade of mineral rejects generation and threshold value declared.	Below threshold value.	CaO - 32.06 & MgO - 2.05	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Not generated.	Nil
3g	Grade of sub grade mineral generation	No subgrade generation proposal.	Not applicable as no proposal of generation.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted for segregating of screen reject from ROM.	Mechanised method adopted for segregating of screen reject from ROM	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal during the year 2023-24.	None during the year 2023-24.	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 including excavator & dumpers are deployed.	HEMM including 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	Average 10 meter high benches are maintained.	Nil
3m	Total area covered under excavation/pits	138.14 hect.	120.480 hect.	Up to year 2023-24.
3n	Ore to OB ratio for the pit/mine during the year.	2023-24: 7.76:1 (ton:ton)	2023-24: 10.63:1 (ton:ton)	During the year 2023-24, the Ore to OB ratio was proposed 7.76 whereas actual Ore to OB ratio was achieved 10.63 it shows that proportionate mine development has not been carried out as per proposal, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 23.09.2024.
3o	Total area put in use under different heads at the end of year	Total area put to use proposal- 227.86 hect.	Total area put to use- 176.940 hect.	Up to year 2023-24.
3p	Production of ROM mineral during the last five year period as applicable	2019-20:17509883T 2020-21:20354908T 2021-22:18636983T, 2022-23:14530000T, 2023-24:14530000T, 2024-25:14530000T	2019-20:7703170T 2020-21:8003038T 2021-22:7203581T, 2022-23:7854550T, 2023-24:7569346T, 2024-25:2268983T(up to July,24)	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast fully mechanised mining method proposed.	Opencast fully mechanised mining method adopted as per proposal.	Method of mining is best suited to the type of deposit.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping proposal for topsoil, OB/IB & mineral reject.	Separate dumping observed for topsoil, OB/IB & mineral reject.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Year 2023-24: Topsoil: Northing - 2727245 to 2727475 & Easting - 460895 to 461945 OB/IB Dump : Northing- 2726740.37 to 2727121.76 & Easting - 460005.67 to 460322.07 Screen Reject: Northing - 2727040 to 2727340 & Easting - 460540 to 460790	Year 2023-24: Topsoil :Northing - 2727245 to 2727475 & Easting -460895 to 461945 OB/IB Dump : Northing- 2726740.37 to 2726937.19 & Easting -4600045.93 to 460319.88 Screen Reject: Northing - 2727130 to 2727230 & Easting - 460760 to 460830	Dumping has been carried out within proposed limit during the reporting year 2023-24.
4c	Number of dumps within lease area and outside of lease area	Within lease area- Total 5 Nos. Dump (OB/IB-03 Nos., Mineral Reject (Screen Reject)-02 Nos.)	Within lease area- Total 5 Nos. Dump (OB/IB-03 Nos., Mineral Reject (Screen Reject)-02 Nos.)	All dumps are within lease area no dumps located outside of the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL -03 Nos. (OB/IB-02 Nos., Mineral/Screen Reject-01 No.) & Outside UPL - 02 Nos. (OB/IB-01No. Mineral/Screen Reject-01 No.)	Within UPL -03 Nos. (OB/IB-02 Nos., Mineral/Screen Reject-01 No.) & Outside UPL - 02 Nos. (OB/IB-01No. Mineral/Screen Reject-01 No.)	The dumps will rehandle which are situated in within UPL during conceptual stage.
4e	Number of active and alive dumps.	02 dumps(OB/IB-01 & Screen reject-01)	02 dumps(OB/IB-01 & Screen reject-01)	Nil
4f	Number of dead dumps.	03 dumps(OB/IB-02 nos. & Screen reject-01 dump)	03 dumps(OB/IB-02 nos. & Screen reject-01 dump)	Nil

4g	Number of dumps established.	02 OB/IB dumps	02 OB/IB dumps	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal given.	Reatining walls & garland drains are there.	Nil
4i	Length of Retaining wall or garland drain all along dumps	During the year 2023-24 total 200m retaining wall waas proposed & 1880m garland drain proposed.	During the year 2023-24 total 100 mtrs stone wall made at the bottom of waste dump & 2000 Mtrs Garland Drain made.	The retaining wall length is shorter than proposed due to less extension waste dump as per proposal.
4j	Number of settling ponds	01	01	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue 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 backfilling proposal duirng the RY.	Nil	Nil
5b	Area under backfilling of mined out area	No backfilling proposal during the last year 2023-24.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation.	Plantation.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal of fully reclamation & rehabilitation during the RY 2023-24.	Nil	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area is not matured for backfilling & reclamation.
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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).	PMCP report shall be submitted before 1 july for previous financial year.	PMCP report for year 2023-24 submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	N/A	Nil
6c	afforestation done (ha).	2023-24: 1.0 hect.	2023-24: 1.0 hect.	Nil
6d	No. of saplings planted during the year	2023-24: 1050 nos.	2023-24: 2050 nos.	In the RY more saplings planted along with gap filling also.
6e	Cumulative no .of plants	No specific proposal in this regrad.	67670 nos.	Up to year 2023-24.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 10 Lakhs	Rs. 12 Lakhs	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 of backfilling	Not applicable	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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	However rain water accumulated in pit bottom.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Plantation was proposed over an area of 1.0 hect during the RY.	Plantation has been carried out over an area of 1.0 hect during the RY.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	N/A	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)	Monitoring proposed as per EC Conditions.	Monitoring done quarterly basis in core & buffer zone	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP complines is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM feed to crusher and screen reject is separated by screening before crushing & after crushing all limestone feed to captive cement plant.	ROM feed to crusher and screen reject is separated by screening before crushing & after crushing all limestone feed to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal of different grade wise sorting, only cement grade limestone feed to captive cement plant.	As per proposal	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	Nil
7d	Any beneficiation process at mines .	No proposal	Not applicable.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation in mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal & use for plantation.	Topsoil separately removed and directly used in plantation.	Nil
8b	Concurrent use or storage of topsoil	Use in plantation	Directly used in plantation	Temporary storage of top soil when not in use, in rainy season it is being use for plantation.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB/IB and screen reject.	As per proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given.	Not applicable	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in RY 2023-24.	Not applicable	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2023-24 total 1000 nos. of plantation was proposed over an area 1.0 hect.	During the year 2023-24 total 2050 nos. of plantation done over an area 1.0 hect. along with gap filling plantation.	Nil
8g	Survival rate	80%	92.44%	As per AR 2023-24.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed.	3 nos. of water sprinklers are being used for water spraying on haul roads.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mines area is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per MCDR 2017, monthly return shall be submitted before 10th day month for previous month & annual return shall be submitted before 1 July for previous year.	Monthly returns for the year 2023-24 & annual retrain for the year 2023-24 submitted timely.	Timely submission of monthly & annual returns.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Sh Sunil Bora Geologist- Sh Kuldeep Chaubisa Mine Manager-Sh Raju Jain	Correct details furnished in AR 2023-24.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	In AR 2023-24: Pit - 120.480 Hect. Waste Dump- 20.750 Hect Plant, buildings, residential, welfare buildings & roads-29.760 Hect Mineral Storage -5.950 Hect.	Seems corrected.	Nil
9d	Scrutiny of Annual return on afforestation	in AR 2023-24: Within ML-2050 Nos (SR- 92.44 %) Outside ML- 13083 Nos (SR -83.39 %)	Details seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR 2023-24: Quantity - 44650T Grade- CaO less than 34%	Seems corrected.	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Production Details seems corrected. -7569346 T Limestone(Cement Grade) Production - 7524696 T Opening Stock of ROM & Cement Grade Limestone- Nil Closing Stock of ROM & Cement Grade Limestone- Nil	AR 2023-24.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price & Production Cost- 269.16.00 Rs /T	AR 2023-24. This is captive mine.
9h	Scrutiny of Annual return on fixed assets	Total value of Fixed Assets - Rs 1489415965	AR 2023-24.
9k	Scrutiny of Annual return on mining machineries	Details of mine machineries given in AR 2023-24.	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)	23-SEP-24			

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines