

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-2

Mine code : 38RAJ09005

- (i) Name of the Inspecting : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh. L. S. Pokharana, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 29-NOV-24
- (v) Prev.inspection date : 17-AUG-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NIMBAHERA**
- (b) **Registration NO.** : **IBM/418/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : CHITTORGARH
- Village : NIMBAHERA
- Taluka : NIMBAHERA
- Post office : KAILASH NAGAR
- Pin Code : 312617
- FAX No. : 01477-220562
- E-mail : yatendra.sharma@jkcement.co
- Phone : 01477-220087
- (f) Police Station : NIMBAHERA
- (g) First opening date : 24-JUN-71
- (h) Weekly day of rest : SUN
2. Address for : J K Cement Works
correspondance Kailash Nagar, Nimbahera
District- Chittaurgarh (Rajasthan)
3. (a) Lease Number : RAJ0008
- (b) Lease area : 403.19
- (c) Period of lease :
- (d) Date of Expiry : 31-MAR-30
4. Mineral worked : LIMESTONE Associated

5. Name and Address of the

Lessee : J.K. Cement Works
 P.O. KAILASH NAGAR
 NIMBAHERA CHITTORGARH
 RAJASTHAN
 Phone:01477-220027
 FAX :01477-220027

Owner : Ajay Kumar Saraogi
 J K cement Limited Kamla
 Tower Kanpur KANPUR UTTAR
 PRADESH
 Phone: 0512-2311478
 FAX : 0512-2364250

Agent : Yatendra Sharma
 J K Cement Works, Kailash
 Nagar Nimbahera CHITTORGARH
 RAJASTHAN
 Phone: 01477-220567
 FAX :

Mining Engineer
 Name : Laxmi Narayan Tailor, Full Time
 Qualification : Diploma in Mining & 34 Years Exp.
 Appointment/ : 12-NOV-24
 Termination date

Geologist
 Name : Prashant Tiwari, Full Time
 Qualification : MSC Geology
 Appointment/ : 02-AUG-21
 Termination date

Manager
 Name : L.S.POKHARNA
 Qualification : BE MINING
 Appointment/ : 19-AUG-21
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	23-APR-03
Plan/Scheme of Mining		Modif.approved Mining Scheme	01-OCT-04
		FMCP under 23C(1)	24-JAN-07
		Renewal under rule 22 MCR1960	04-APR-08
		Mining Scheme rule 12 MCDR1988	26-JUL-13

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposed during the previous year 2022-23.	None during the previous year.	No Backlog of previous year.
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2023-24.	None during the RY 2023-24.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of exploration during the year 2023-24.	None during the RY 2023-24.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal during the RY 2023-24.	None during the RY 2023-24.	The current inspection has been carried out for RMP. As per recent approved RMP(approved on 02.02.2025) out of total 403.1875 hect lease area, mineraised area is 395.4005 hect. which has already been explored under G1 level & remaining 7.787 hect. area, for which exploration proposal given in approved RMP.
1e	Balance reserve as on 01/04/20	No specific proposal given for balance reserve.	As on 01.04.2024, Proved Reserve: 10.89MT Probable Reserve: 4.57MT Resource: 32.05MT Total: 47.89MT	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to Geology & exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Proposed between Grid: N 2729680 - 2729109 E 464506 - 465031	Mine development has been carried out within proposed lateral limit.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches proposed in Mineral only having 7m to 8m each.	Mineral benches only as per proposal	Nil
2c	Stripping ratio or ore to OB ratio	2023-24: 1:0.025	2023-24: 1:0.057	(Tons : Tons)
2d	Quantity of topsoil generation in m3	2023-24: 4,895.10 cum	2023-24: 4,853.14 cum	Nil
2e	Quantity of overburden generation in m3	2023-24: 15438.46 cum	2023-24: 15276.92 cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out by opencast mechanised mining method which is best suited to the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Pit (Murlia & Ahipura)	02 Pit (Murlia & Ahipura)	Nil

3b	Quantity of ROM mineral production proposed	2023-24: 864347.10 tons	2023-24: 383110.71 tons	During the year 2023-24 total 864347.1 tonnes ROM production was proposed during the year, but only 383110.7 tonnes ROM production carried out against this proposal which is around 44.32% of the proposal. Such low achievement in production has substantially changed pit profile effecting all subsequent year also, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 23.12.2024.
3c	Recovery of sailable/usable mineral from ROM production	2023-24: 859347.10 tons	2023-24: 378182.71 tons	Nil
3d	Quantity of mineral reject generation	No proposal	Not applicable	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	2023-24: 5000 tons	2023-24: 4928 tons	Nil
3g	Grade of sub grade mineral generation	CaO Between 34 to 41.36%	CaO Between 34 to 40.29%	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Not applicable	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal given during the RY 2023-24.	None during the RY 2023-24.	Nil

3j	Provision of drilling and blasting in mineral benches	Drill dia - 115mm & ANFO explosive to be use.	Drilling & Blasting in menral benches has been carried out as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Using hyd. excavator, drill machine, dozer , tippers etc.	Using hyd. excavator, drill machine, dozer , tippers etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes proposal of 7 to 8m bench height proposed in mineral.	Benches in limestone observed as per proposal.	Nil
3m	Total area covered under excavation/pits	101.65 hect.	101.554 hect.	Up to year 2023-24.
3n	Ore to OB ratio for the pit/mine during the year.	2023-24: 1:0.025	2023-24: 1:0.057	(Tons : Tons)
3o	Total area put in use under different heads at the end of year	Total- 131.249 hect.	Total- 128.706 hect.	The area put to use under head waste dump was proposed 2.114 hectare at the end of year 2024-25 whereas as per submitted annual return the area put to use under head waste disposal is 3.064 hect. Similarly the area put to use under head subgrade stacking was proposed 1.733 hectare at the end of year 2024-25 whereas as per submitted annual return the area put to use under head subgrade stacking is 2.018 hect, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 23.12.2024.

3p	Production of ROM mineral during the last five year period as applicable	2019-20: 1620014.73 2020-21: 865973 2021-22: 860420.2 2022-23: 856638.3 2023-24: 864347.1 2024-25: 859163.5	2019-20: 742609.44 2020-21: 697329.96 2021-22: 774236.04 2022-23: 502516.84 2023-24: 378182.71 2024-25: 150358.51 (upto Oct 2024)	Figures in tons
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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)	Top soil- No dumping proposed. Waste Dump- Proposed Subgrade dump- Proposed	Top soil- No stacking Waste Dump- Observed Subgrade dump- Observed	Nil
4b	Location of topsoil, OB and mineral reject dumps	Waste Dumping Proposed between section lines ML7 to ML8. Subgrade Dumping Proposed between section lines ML5 to ML8.	Waste Dumping Proposed between section lines ML7 to ML89. Subgrade Dumping Proposed between section lines ML5 to ML8.	Up to year 2023-24, waste dumping was proposed between UTM grid 2729800N to 2730020N to 464160E to 464290E whereas actual waste dumping has been carried out between UTM grid 2729800N to 2730020N to 464150E to 464320E. It shows that waste dumping has been extended towards Eastern & western side of proposed location, hence violation of Rule 11(1) of MCDDR 2017 issued vide letter dated 23.12.2024.
4c	Number of dumps within lease area and outside of lease area	Within lease : Waste dump-1 Subgrade dump-1	Within lease : Waste dump-1 Subgrade dump-1	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside ultimate pit limit	Outside ultimate pit limit	Nil
4e	Number of active and alive dumps.	Within lease : Waste dump-1 Subgrade dump-1	Within lease : Waste dump-1 Subgrade dump-1	Nil
4f	Number of dead dumps.	No proposal	Not applicable	Nil
4g	Number of dumps established.	No proposal	Not applicable	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes garland drains proposed.	Yes garland drains are there.	Nil
4i	Length of Retaining wall or garland drain all along dumps	During the year 2023-24: 50m garland drain proposed.	During the year 2023-24: 50m garland drain made.	Nil
4j	Number of settling ponds	No proposal	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump management however some location deviation observed hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 23.12.2024.

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 during the RY 2023-24.	None during the RY 2023-24.	Nil
5b	Area under backfilling of mined out area	No proposal during the RY 2023-24.	None during the RY 2023-24.	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal during the RY 2023-24.	None during the RY 2023-24.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the RY 2023-24.	None during the RY 2023-24.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal of backfilling & reclamation neither carried out during the RY 2023-24.

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	Not applicable	Nil
6c	afforestation done (ha).	2023-24: 0.75 hect.	2023-24: 4.86 hect.	Nil
6d	No. of saplings planted during the year	2023-24: 1500 nos.	2023-24: 4775 nos.	Nil
6e	Cumulative no .of plants	No specific proposal in this regrad.	166974 nos	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 3,75,000	Rs. 8,43,976	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	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 0.75 hect during the RY.	Plantation has been carried out over an area of 4.86 hect during the RY.	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	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 complinces 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	From ROM mineral, the usable limestone feed to captive cement plant & subgrade limestone stacking proposal given.	The usable limestone feed to captive cement plant & subgrade limestone stacked within lease area.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	Limestone having CaO 41.36% above feed to captive cement plan & stacking proposal given for limestone having CaO between 34% to 41.36%.	As per proposal usable limestone feed to captive cement plan & subgrade limestone stacked separately.	Nil
7d	Any beneficiation process at mines .	No proposals	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	Concurrent use in plantation.	Concurrent use in plantation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB/IB and subgrade material.	Separate dump for OB/IB and subgrade material.	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 1500 nos. of plantation was proposed over an area 0.75 hect.	During the year 2023-24 total 4775 nos. of plantation done over an area 4.86 hect.	Nil
8g	Survival rate	Not specified	Survival rate - 92.00%	As per AR 2023-24.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed.	Water sprinkling was observed.	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 prev	Monthly returns for the year 2023-24 & annual retrun 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 : Praddep Kumar Geologist : Prashant Tiwari Mines Manager : Lal Singh Pokharna	Correct details furnished.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area: 101.554 ha Reclaimed area: 2.82 ha Waste Dumps: 3.064 ha Infrastructure : 22.07 ha Plantation: 61.90 ha Sub grade: 2.018 ha	Seems corrected	Nil
9d	Scrutiny of Annual return on afforestation	No. of trees planted: 4775 (Inside)	Details seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject: 4928.00 tons & CaO: 40.29%	Details seems corrected	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening & closing stock- Nil Cement grade limestone opening & closing stock- Nil	Details seems corrected.	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs.235.39 & Cost of production : Rs.235.39	It is captive mine & details seems corrected.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed assets reported Rs.10442546.00	Details seems corrected.	Nil
9k	Scrutiny of Annual return on mining machineries	Mine machineries details furnished in AR 2023-24	Details seems corrected.	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-DEC-24			

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines