

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-13

Mine code : 38RAJ09013

- (i) Name of the Inspecting : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Sohan Das Vairagi, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 30-NOV-24
- (v) Prev.inspection date : 20-AUG-24

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MANGROL**
- (b) **Registration NO.** : **IBM/418/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : CHITTORGARH
- Village : MANGROL
- Taluka : NIMBAHERA
- Post office : MANGROL
- Pin Code : 312617
- FAX No. : 01477-20087,220562
- E-mail : yatendra.sharma@jkcement.co
- Phone : 01477-20087,220562
- (f) Police Station : Nimbahera sadar
- (g) First opening date : 10-JUN-13
- (h) Weekly day of rest : SUN
2. Address for : PO- MANGROL
correspondance DISTT CHITTORGARH
RAJASTHAN
3. (a) Lease Number : RAJ4468
- (b) Lease area : 132
- (c) Period of lease : 50
- (d) Date of Expiry : 03-MAY-62
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : J.K.Cement Works
 Kailashnagar Nimbahera
 CHITTORGARH RAJASTHAN
 Phone:01477-220087
 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 : Rajesh Kumar Ravi,Full Time
 Qualification : BE Mining
 Appointment/ : 21-JUN-23
 Termination date

Geologist
 Name : Manish Madhav,Full Time
 Qualification : M Sc Geology
 Appointment/ : 09-JUL-15
 Termination date

Manager
 Name : Sohan Das Vairagi
 Qualification : Diploma Mining and (FCC)
 Appointment/ : 19-AUG-21
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 22-MAR-10
 Plan/Scheme of Mining

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.	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 specific proposal given for balance reserve.	As on 01.04.2024, 111: 26.992mt 121: 15.537mt Total:42.530mt	mt-Million Tonnes
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
2a	Location of development w.r.t.lease area	Mine development was proposed between UTM grid N2732968 - 2732102 & E467966 - 467592	Actual development has been carried out between UTM grid N2732968 - 2732102 & E467966 - 467592	Mine development has been carried out within proposed lateral limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches only in mineral	Benches only in mineral	Nil
2c	Stripping ratio or ore to OB ratio	2023-24: 1:0.00	2023-24: 1:0.00	No OB generation proposal in the mine.
2d	Quantity of topsoil generation in m3	2023-24: 34.97 cum	2023-24: 27.97 cum	Nil

2e	Quantity of overburden generation in m3	No proposal during the year 2023-24.	No OB generated during the RY 2023-24.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out within proposed limit during the RY 2023-24.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 Pit	1 Pit	Nil
3b	Quantity of ROM mineral production proposed	2023-24: 110000 tons	2023-24: 108254.50 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	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.	No proposal	Not applicable	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicable	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 proposal	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 machinerries 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 8m bench height proposed in mineral.	Benches in limestone observed as per proposal	Nil
3m	Total area covered under excavation/pits	24.23 hect.	23.984 hect.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2023-24: 1:0.00	2023-24: 1:0.00	No OB generation proposal in the mine.
3o	Total area put in use under different heads at the end of year	32.748 hect. area	32.502 hect. area	Up to year 2023-24.
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 1674357.58 T, 2020-21: 1498768.30 T, 2021-22: 1498775.00 T, 2022-23: 110296.10 T, 2023-24: 110000.00 T, 2024-25: 500010.50 T	2019-20: 1389693.55 T, 2020-21: 974836.35 T, 2021-22: 1017878.29 T, 2022-23: 109329.07 T, 2023-24: 108254.5 T, 2024-25: 107341.32 T(up to sept 2024)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Open cast mining method adopted which is best suited to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil-No stacking proposal, Waste dumping -No proposal, Mineral Reject- No proposal	Top soil-No stacking Waste dumping -No waste dumping Mineral Reject- No mineral reject dumping	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top soil-No stacking proposal, Waste dumping -No proposal, Mineral Reject- No proposal	No top soil stacking, waste dumping & mineral reject dumping during the RY 2023-24.	Nil
4c	Number of dumps within lease area and outside of lease area	Within lease area-03 Subgrade stacks.	Within lease area-03 Subgrade stacks.	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.	03 Subgrade stacks	03 Subgrade stacks	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.	Retaining wall-Yes Garland drain- No proposal	Retaining wall-Yes Garland- Not applicable	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall-109m Garland drain- No proposal	Retaining wall-45 Garland-Not applicable	Cumulative garlands drain 1449m.
4j	Number of settling ponds	No proposal	None during the RY.	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
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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: 1.20 hect.	2023-24: 1.20 hect.	Nil
6d	No. of saplings planted during the year	1500 nos.	9440 nos.	Plantation carried out more than proposal including gap filling plantation.
6e	Cumulative no .of plants	10844 nos.	29788 nos.	Up to year 2023-24.
6f	Any other method of rehabilitation	No proposal	Not applicable	Nil

6g	Cost incurred on watch and care during the year	Rs. 375000	Rs.374352	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 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 1.20 hect during the RY.	Plantation has been carried out over an area of 1.20 hect during the RY.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.20 hect.	1.20 hect.	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
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposed during the RY 2023-24, Entire ROM mineral feed to captive cement plant.	No grade wise sorting carried out during the RY 2023-24, Entire ROM mineral feed to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise mineral sorting proposal.	Not applicable	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	Concurrent use in plantation.	Concurrent use in plantation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for subgrade material.	Separate dump for 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 1.20 hect.	During the year 2023-24 total 9440 nos. of plantation carried out. It includes plantation over proposed 1.20 hect area & gap filling plantation.	Nil
8g	Survival rate	90%	90%	Nil
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.	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:Rajesh Kumar Ravi Geologist:Manish Madhav Mines Manager: S D Vairagi	Correct details furnished.	AR 2023-24
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area: 23.984 Ha Mineral reject: 6.85 Ha	Seems corrected	AR 2023-24.
9d	Scrutiny of Annual return on afforestation	No. of trees planted: 9440 (Inside)	Details seems corrected	AR 2023-24.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject reported in AR 2023-24.	No mineral reject generated during the RY 2023-24.	AR 2023-24.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No opening & closing stock of ROM & Cement grade limestone.	Details seems corrected.	AR 2023-24.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. mine price & Production cost: Rs.207.21	It is captive mine & details seems corrected.	AR 2023-24.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asstes-Rs. 708353865. It is combined information with mine name- Mangrol Tilakhera(Mine Code- 38RAJ09004)	Details seems corrected.	AR 2023-24.

9k	Scrutiny of Annual return on mining machineries	Mine machineries details furnished	Details seems corrected.	AR 2023-24.
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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

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines