

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-9

Mine code : 38RAJ09001

- (i) Name of the Inspecting : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Kashi Kant Singh, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 01-DEC-24
- (v) Prev.inspection date : 19-OCT-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAI SURJANA (BIRLA)**
- (b) **Registration NO.** : **IBM/4349/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : CHITTORGARH
- Village : JAI SURJANA & BHERDA
- Taluka : CHITTORGARH
- Post office : CEMENT FACTORY
- Pin Code : 312021
- FAX No. : 01472-256609
- E-mail : kashi.singh@birlacorp.com
- Phone : 01472-256601 TO 256608
- (f) Police Station : CHANDERIYA
- (g) First opening date : 17-AUG-94
- (h) Weekly day of rest : SUN
2. Address for : Birla Cement Works ,
correspondance CEMENT FACTORY, CHANDERIYA
CHITTORGARH, RAJASTHAN
3. (a) Lease Number : RAJ0005
- (b) Lease area : 588.59
- (c) Period of lease :
- (d) Date of Expiry : 31-MAR-30
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : Birla Cement Works
 Madhavnagar, P.O. Cement
 Factory, Chittorgarh PIN
 312021 CHITTORGARH
 RAJASTHAN
 Phone:
 FAX :

Owner : Sandip Ghose
 Shakespeare Sarani IInd
 floor Kolkata KOLKATA WEST
 BENGAL
 Phone: 033-224828872
 FAX : 033-224828872

Agent : K.K.Singh
 AF-2 Madhav Nagar, Sector -
 1 Birla Cement Works,
 Chanderia - Chittorgarh
 (Raj.) CHITTORGARH
 RAJASTHAN
 Phone: 01472-259451
 FAX : kashi.singh@bir

Mining Engineer

Name : Rajesh Choudhry, Full Time
 Qualification : B E (Mining Engg)
 Appointment/ : 16-MAR-17
 Termination date

Geologist

Name : Digendra Singh Solanki, Full Time
 Qualification : M. Sc (Tech) Applied Geology
 Appointment/ : 01-SEP-23
 Termination date

Manager

Name : Biswaranjan Mohanty
 Qualification : BE Mining
 Appointment/ : 18-DEC-19
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	23-MAY-03
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	17-JAN-07
	:	Mining Scheme rule 12 MCDR1988	08-SEP-08
	:	Mining Scheme rule 12 MCDR1988	06-APR-15

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 2022-23.
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.	Balance R & R as on 01.04.2024: Reserve: 72.339 mt Resources: 89.470mt	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	Bherda pit - E- 464392-464677 & N-2756899-2757199 Jai Pit E-466500-466792 & N -2757831-2758113 Surjana Pit- E-467340-468409 & N -2758939-2760063 Nagri Pit- E-469153-469860 & N -2760870-2761598	No mine development have been carried out in Bherda & Jai Pit during the RY 2023-24. Mine development in Surjana Pit & Nagri Pit have been carried out within proposed limit.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in OB & Mineral was proposed.	OB & Mineral benches area there.	Nil

2c	Stripping ratio or ore to OB ratio	2023-24: 1:0.05	2023-24: 1:0.13	Tons: Tons
2d	Quantity of topsoil generation in m3	2023-24: 14155 m3	2023-24: 2800 m3	Nil
2e	Quantity of overburden generation in m3	2023-24: 113728m3	2023-24: 205910.41m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	<p>(1) No mine development has been carried out in Jai & Bherda Pit during the RY. Mine development has been carried out Nagri & Surjana Pit with proposed lateral limit.</p> <p>(2) However large quantity of limestone boulders were laying along the haul road going towards the Nagri Pit, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 23.12.2024.</p>		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 pits (Jai, Bherda, Nagri and Surjana)	2 pits(Nagri and Surjana)	Nil
3b	Quantity of ROM mineral production proposed	2023-24: 5463484.80 T	2023-24: 3734500.00 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	2023-24: 5190310.58 T	2023-24: 3730300 T	Nil

3d	Quantity of mineral reject generation	2023-24: 273174.22 T	2023-24: 42000 T	During the year 2023-24, total 273174.22T (which is 5% of total ROM quantity 5463484.80T) mineral reject generation was proposed whereas actual mineral reject generated 4200T(which is 0.11% of total ROM quantity 3734500T), 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 23.12.2023.
3e	Grade of mineral rejects generation and threshold value declared.	Below thershold value of Limestone Mineral	Below thershold value of Limestone Mineral	Nil
3f	Quantity of sub grade mineral generation.	No subgrade generation proposed.	No subgrade mineral generated during the RY.	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechnised method adopted to segregating screen reject from ROM mineral.	Mechnised method adopted to segregating screen reject from ROM mineral.	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	Proposal of Drilling & Blasting is Subjected to decision of Honorable Court.	Worked with Mechanical means without Blasting using Rock breaker and Splitter only.	In mechanical mining splitter are also deployed in which DTH drill are used.

3k	Provision of mining machineries in mineral benches	Excavator, Rock Breaker, Dumpers, Dozers, Water tankers etc.	Excavator, Rock Breaker, Dumpers, Dozers, Water tankers etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes bench height proposed up to 6m.	Bench height maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	195.459 hect.	193.039 hect.	Up to year 2023-24.
3n	Ore to OB ratio for the pit/mine during the year.	2023-24: 1:0.05	2023-24: 1:0.13	Tons: Tons
3o	Total area put in use under different heads at the end of year	244.50 hect.	234.85 hect.	Up to year 2023-24.
3p	Production of ROM mineral during the last five year period as applicable	2020-21:43.16 lakh T 2021-22:48.92 lakh T 2022-23: 49.08 lakh T 2023-24: 54.63 lakh T 2024-25: 64.83 lakh T	2020-21:27.05 lakh T 2021-22:28.25 lakh T 2022-23: 35.80 lakh T 2023-24: 37.34 lakh T 2024-25: 23.74 lakh T (up to Nov. 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
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil- No proposal of stacking OB/IB- Dumping proposal given. Screen Reject- Dumping proposal given.	No top soil stacking. OB/IB dumping & screen reject dumping have been carried out.	Nil

4b	Location of topsoil, OB and mineral reject dumps	Top soil: Not applicable OB/IB dump- Dumping was proposed in Jai Dump(E466652 TO E466781 & N2757686 TO N2757808), Surjana Dump1(E466845 TO E466969 & N2758480 TO N2758694) & Nagri Dump1 (E468932 TO E469138 & N2760625 TO N2760835) Screen Reject: Surjana Screen reject(E466902 to 467051 & N2758235 to 2758381)	Top soil- No stacking. OB/IB- No dumping has been carried out in Jai dump during the RY. Dumping has been carried out in Surjana Dump1 & Nagri Dump1 over proposed location. The screen reject dumping carried out in Surjana Screen Reject dump as per proposal.	Nil
4c	Number of dumps within lease area and outside of lease area	09 dumps(08 waste dumps & 01 screen reject dump) within lease area.	09 dumps(08 waste dumps & 01 screen reject dump) within lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2 nos. of dump fall within UPL & remaining 7 nos. outside of the UPL.	2 nos. of dump fall within UPL & remaining 7 nos. outside of the UPL.	Nil
4e	Number of active and alive dumps.	08 dumps	08 dumps	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.	During the RY 2023-24, retaining wall & garland drain proposed.	Retaining wall & garland drain made during the RY.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall-390m, Garland Drain-320m.	Retaining wall-400m, Garland Drain-325m.	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.

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.	The cummulative 16.4 hect area of Bherd Pit reclaimed as water reserviour. The water is being supplied to the Chittorgarh city by State Govt department PHED.
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 timely on 22.06.2024.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	Nil
6c	afforestation done (ha).	2023-24: 1.0 hect.	2023-24: 2.0 hect.	Nil
6d	No. of saplings planted during the year	2023-24: 1000 nos.	2023-24: 3000 nos.	Nil
6e	Cumulative no .of plants	No proposal in this regard.	Within ML area - 140858 Outside of ML area- 88022	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. 1000000	Rs. 650000	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
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	However rain water acuumulated 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 2.0 hect during the RY.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 hect by plantation	2.0 hect. by plantation	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.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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	Cuncurrent use in plantation.	Cuncurrent use in plantation.	Nil
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 3000 nos. of plantation carried out over an area 2.0 hect.	Nil
8g	Survival rate	90%	92% (within ML area)	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
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 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: Rajesh Choudhary Geologist: Digendra Singh Solanki Manager: B R Mohanty.	Correct details furnished.	AR 2023-24

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under O/C Details seems corrected. workin-176.64 hect., Reclaimed-rehabilitated-16.4 hect., Waste dumping-28.060 hect, Plant, Building, Roads etc-13.77 hect., Others 66.950 hect.	AR 2023-24.
9d	Scrutiny of Annual return on afforestation	Within ML area Seems corrected. 3000 nos. having survival rate 92%.	AR 2023-24.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reported 4200 T having CaO grade-25% Details seems corrected	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. 587.26 It is captive mine & details seems corrected.	The mining is being carried out without blasting due to Hon'ble Court restrictions, hence cost of production is higher compare to other mines of the area.
9h	Scrutiny of Annual return on fixed assets	RS. 601361092 Details seems corrected	AR 2023-24.
9k	Scrutiny of Annual return on mining machineries	Mine machineries details furnished Details seems corrected.	AR 2023-24.

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	20-FEB-25			

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines