

MCDR Report 2022-23

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri B. L. Bhati (Sr. GM, HOD Mines) Shri Praveen Singh (Mines Manager) Shri Sanjay Arora (Sr GM-Geology)
4) Date of Inspection	05.01.2024
5) Date of Previous Inspection	23.08.2022

I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	JK Lakshmi Cement Limestone Mine -2
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	252.105 ha. Forest area- 0.00 Ha. Non forest area- 252.105 Ha.
3	Mine Code	38CHG05026
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/4816/2011
5	Name of the lessee, Address, phone, email and fax number	M/s JK Lakshmi Cement Ltd. J K Puram, Basantgarh, Pindwara, Sirohi, Rajasthan, Pin Code-307019 Email-praveen.singh@durg.jkmail.com Contact No. 7747013818
6	Village	Semariya, Ghikudia & Nandini-Khundini
7	Taluka/Mandal	Dhamdha
8	District	Durg
9	Pin Code	490036
10	State	Chhattisgarh
11	Post office	Nandani Nagar
12	Nearest police station	Nandani Nagar
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	26-10-2016
15	Date of Execution	28-12-2016
16	Date of opening of Mine	24-09-2018
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with	Shri Arun Kumar Shukla Address-Nehru House 4,

	Address, phone, email, fax number and date of appointment	Bahadur Shah Zafar Marg, New Delhi-110002, Phone- 01123311112, Email- arun.shukla@jkm.com Date of Appointment:-01/08/2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri MUKUL SRIVASTVA Address :- J K Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Chhattisgarh-490036. Phone: 8966909285. Email mukul.srivastava@durg.jkm.com Date of Appointment:-01/10/2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Praveen Singh Address :- J K Lakshmi Cement Ltd. Vill- Malpuri Khurd, Khasadih, PO- Ahiwara, Dist- Durg. Email- praveen.singh@durg.jkm.com Date of Appointment:-01/05/2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Chandra Shekhar Parteti, B.Tech (Mining) /15 YRS/Ahiwara, Durg Date of appointment-01.05.2023 Phone No.7747013852 / Email- cs.parteti@durg.jkm.com
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Arora, M. Tech (App. Geo), 32 Years/Nehru Nagar Bhilai, Date of appointment-01.05.2018 Phone No.9752094047 Email- sanjayarora@durg.jkm.com
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR, 2017.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	-
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved on 04-02-2021 Proposal period 01-04-2021 -31-03-2026)
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast

30	Category (Fully Mechanised, Others or Manual)	Category-A Fully Mechanized
32	Captive/Non-Captive	Captive

II. SCIENTIFIC MINING

[Data in respect of financial year (2022-23) or cumulative, as applicable]

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
A. EXPLORATION: -				
1a	Backlog of Previous Year	Nil	Nil	No backlog for the previous year
1b	Exploration Over Lease area for Geological Axis 1 or 2	26 Nos.	30 Nos. boreholes Total depth 1214 m.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Synergy Geotech Private Limited, Nagpur Expenditure Rs. 2535950.00	Expenditure as reported in submitted Annual Return 2022-23.
1d	Balance area to be explored to bring Geological axis 1 or 2	Nil	Nil	
1e	Balance reserves as on 01/04/2023	Under 111- 27840390 tonne Under 121- 35698543 tonne Total- 63,538,933.00 tonne		As per the submitted Annual Return for FY 2022-23
1f	General remarks of inspecting officer on geology, exploration etc.	30 Nos. of boreholes have been drilled against the exploration proposal of 26 nos. for this year 2022-23.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
B. DEVELOPMENT: -				
2a	Location of development w.r.t. lease area	Development proposed in one (01) pit	Excavation carried out within the proposed area	
2b	Separate benches in topsoil, overburden	Separate benches proposed in OB &	Separate benches were maintained in OB	

	and mineral	mineral	& mineral	
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.20	Tonne:Cum
2d	Quantity of topsoil generation in m3	7740	6000	
2e	Quantity of overburden generation in m3	28000	19603	Less generation due to less production
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Developments of pit has been carried out within the proposed area.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
C. EXPLOITATION: -				
3a	Number of Pit Proposed for Production	One (01)	One (01)	
3b	Quantity of ROM mineral production proposed	150000.00 Ton	123126.16 Ton	As reported in Annual Return
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100 %	100 %	
3d	Quantity of mineral reject generation	No proposal	Not applicable	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Drilling and blasting were carried out in mineral benches	
3k	Provision of mining	Yes, HEMMs	HEMMs deployed	

1/29060/2024

1/29060/2024

	machineries in mineral benches			
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 6 m in overburden and mineral	Yes, suitable	
3m	Total area covered under excavation/pits	3.71 Ha. up to end of plan period 2025-26	2.59 Ha. up to end of FY 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.23	1 : 0.20	Tonne:Cum
3o	Total area put in use under different heads at the end of year	Total put to use area 15.47 Ha. up to 2025-26	About 3.00 Ha. up to end of FY 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 50010 2019-20: 99000 2020-21: 148725 2021-22: 150000 2022-23: 150000	2018-19: 16362.69 2019-20: 48722.23 2020-21: 80729.5 2021-22: 113884.74 2022-23: 123126.16	(All units in MT) As per AR 2022-23 submitted
3q	General remarks of inspecting officer on method of mining etc.	Open cast working is being carried out by deployment of HEMM with the help of drilling & blasting. Less production is reportedly due to less feed requirement in the captive cement plant.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING: -				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	Separate dumping of Waste /OB proposed	Separate dumping for Waste /OB carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Location of OB Dump Dump-1 541693 E-541793 E 2368964 N-2369026 N Dump-2 542072E-542198E 2368459N-2368590N Location of Soil Dump 541058 E -541132 E & 2368385 N -2368490 N No proposal for Mineral Rejects dump	Dumping carried out within proposed area	
4c	Number of Dumps within Lease & Outside Lease area	2 OB Dump & 1 Soil Dump	2 OB Dump & 1 Soil Dump	
4d	Location of Dumps, within Ultimate Pit Limit	Proposed beyond UPL	Beyond UPL	

4e	Number of Active & Alive Dumps	03	03	
4f	No of Dead Dumps	-	Nil	
4g	No of Dumps stabilized	No proposal	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Yes	
4i	Length of Retaining Wall or Garland drain along Dumps	Retaining wall 50x2.5x1.5 Garland drain 100x2x1	Constructed as proposed	
4j	No. of Settling tanks	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Environmental protection measures have been constructed/maintained around the waste/soil dump.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
E. SOLID WASTE MANAGEMENT - BACKFILLING: -				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area has been exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling, reclamation, etc.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
F. PROGRESSIVE MINE CLOSURE PLAN: -				
6	Whether Annual	To be submitted	PMCP report	Annual Report

I/29060/2024

I/29060/2024

a	report on PMCP submitted on time and correctly - Rule 26(2)	before 01st July every year	received in time.	submitted on 29.06.2023
6 b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal	Nil	No area is mined out fully at present
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No proposal	Nil	No area has matured for reclamation and rehabilitation purposes
6 d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1000 Nos. 1.00 Ha. By plantation	105 Nos.	Violation under Rule 11(1) issued in this regard.
6	Compliance of	Environmental	Environmental	All values of

e	Environmental monitoring (core zone & buffer zone)	monitoring of air, water & noise proposed	monitoring of air, water & noise was carried out as per the proposal	environment parameters were within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Annual PMCP report has been submitted. No area has got matured for reclamation and rehabilitation purposes.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
G. MINERAL CONSERVATION: -				
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch	ROM dispatch	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation is warranted in the case of Limestone.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
H. ENVIRONMENT: -				
8a	Separate removal and utilization of topsoil	Plantation	Plantation	
8b	Concurrent use or storage of topsoil	Separate removal and utilization of topsoil proposed	Generated topsoil used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock are proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to	No proposal	Nil	No area has matured for restoration

	its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	Plantation proposed WML-1000 nos.	Within lease area 105 nos. saplings	Violation under Rule 11(1) issued in this regard
8g	Survival rate	Not specified	85%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads through water tanker	Continuous water sprinkling done on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good.		

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45: -				
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regularly AR Submitted up to = FY 2022-23		
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Shri Dinesh Singh Mining Engineer- Shri Birendra Banjare Geologist- Shri Sanjay Arora	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.55 Ha.	About 3.00 Ha.	
9d	Scrutiny of Annual return on afforestation	Within lease area 105 @ 75% survival rate	Within lease area 105 @ 75% survival rate	
9e	Scrutiny of Annual return on mineral reject generation	Nil	No generation of mineral reject reported	

	(Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Opening stock-Nil Production-123126.160 Closing stock-Nil	ROM Opening stock-Nil Production-123126.160 Closing stock-Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price and cost of production - Rs. 496.00/Tonne Sale value-Nil	Captive consumption	
9i	Scrutiny of Annual return on fixed assets	Rs. 533727748 /- including land, building, plant and machinery etc.	Rs. 533727748 /- including land, building, plant and machinery etc.	
9k	Scrutiny of Annual return on mining machineries	Backhoe-01, Tipper-05, Drill Machine-01, Dozer-01	Observed deployed	

10- Details of violations observed during the current inspection: -Violation of Rule 11(1) of MCDR, 2017 pointed out after current inspection.

प्रेम प्रकाश / Prem Prakash

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur