

MCDR INSPECTION REPORT 2020-21

1.0 GENERAL:

S N	Particulars	Details
1	File no	CHG/DRG/LST-38CHG05026
2	Mine code	38CHG05026
3	Name of the officer	D.Dash, Senior Mining Geologist
4	Name of official accompanying inspection	Shri B.L.Bhati, Sr. G.M. (Mines) Shri Dinesh Singh, Manager (Mines)
5	Date of inspection	20.01.2022
6	Previous date of inspection	11.12.2020 by Shri R.K.Das, Sr.ACOM
7	Name of the Mine	JK Lakshmi Cement Limestone Mine -2
8	Total Lease Area (Ha) with breakup of Non-forest and forest land	252.105ha. (252.105 Ha. non forest , 0.0 ha. forest area)
9	Mine code	38CHG05026
10	IBM Registration Number under rule 45 of MCDR, 1988	4816
11	Name of the lessee, Address, phone, email and fax number	M/s JK Lakshmi Cement Ltd. Malpuri-Khurd, Khasadih, Post- Ahiwara, Tehsil-Dhamdha8966902222 dineshsingh@durg.jkmail.com
12	Village	Semariya, Ghikudia & Nandini-Khundini
13	Taluka/Mandal	Dhamdha
14	District	Durg
15	Pincode	490036
16	State	Chhattisgarh
17	Post office	NandaniNagar
18	Nearest police station	Nandninagar
19	Nearest Railway station	Durg
20	Date of Grant of Mining Lease	26-10-2016
21	Date of Execution	28-12-2016
22	Date of opening of Mine	24-09-2018
23	Weekly day of rest	Sunday
24	Date of first Renewal, if applicable and its period & expiry	Not Applicable
25	Date of second Renewal, if applicable and its period & expiry	Not Applicable
26	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
27	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sushil Kumar Wali Address-Nehru House 4 , Bahadur Shah Zafar Marg, New Delhi-110002, Phone- 01123311112, Email- skwali@jkmail.com Date of Appointment :-01/07/2013
28	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri MUKUL SRIVASTVA Address :- JK Lakshmi Cement Ltd. Vill- MalpuriKhurd, Khasadih,, PO- Ahiwara, Dist- Durg.; Chhattisgarh-490036. Phone : 8966909285.Email mukul.srivastava@durg.jkmail.com

		Date of Appointment :-01/10/2020
29	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Dinesh Singh Address :- JK Lakshmi Cement Ltd. Vill- MalpuriKhurd, Khasadih, PO- Ahiwara, Dist- Durg. dineshsingh@durg.jkmail.com Date of Appointment :-01/05/2018
30	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Arora appointed as geologist M.Tech (App. Geo)/ 32 Years/Nehru Nagar Bhilai,9752094047/ sanjayarora@durg.jkmail.com / 1.05.2018 Shri Birendra Kumar Banjare, B.Tech (Mining) /11 YRS/Ahiwara , Durg 1.05.2018/ 7747019156 / birendra.banjare@durg.jkmail.com appointed as Mining Engineer
31	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
32	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved letter no. DRG/LST/MPLN-594/NGP dated 12.06.1998 for the period 2016-17 to 2020-21 (area 281.339 ha) Modified Mining Plan approved vide letter no. 314(3)/2011-MCCM (CZ)/MP-23 Nagpur dated 21.12.2011 for the period from 2016-17 to 2020-21 (area- 281.339 ha) Modified Mining Plan approved vide letter no. DRG/LST/MPLN-52/2016-RPR/403 Raipur dated 23.09.2016 for the period 2016-17 to 2020-21 (area- 252.105 ha) Modified Mining Plan vide letter no. DRG/LST/MPLN-1156/2018 Raipur dated 11.07.2018 for the period from 2018-19 to 2020-21 Review of Mining Plan approved vide letter no. DRG/LST/MPLN-1258/2020 Raipur dated 04.02.2021 for the period 2021-22 to 2025-26
33	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not applicable
34	Mineral(s) granted in lease and proved for mining	Limestone
35	Method of Mining(Opencast, Underground)	Opencast
36	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
37	Captive/Non Captive	Captive
38	EC for ROM Prod:	4.8 million tones (for both mines ML-1- 267.695 ha & ML-2- 252.105ha)
39	FA amount Rs	Mine Development and Production agreement signed with the State Government &

		Performance security of Rs. 25,90,88,64 is submitted.
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Scientific Mining: Compliance of proposals of approved mining plan/Review of mining.

Exploration

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
1a	Backlog of previous year	Nil	28 boreholes	28 boreholes drilling of previous backlog for the proposed years was done during the year.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	During the year 2021-22, 26 boreholes have been proposed and yet to be done due to land acquisition problem.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	GEM CONSULTANT, BILASPUR (24.5 Lakh)	Exploration Carried out by outside agency.
1d	Balance area to be explored to bring Geological axis in 1 or 2	58.26 Ha.	Nil	Future exploration in form of 52 boreholes is proposed in the year 2021-22 and 2022-23
1e	Balance reserves as on 01.04.2021 (million tones)	111- 28.07 121- 35.69 211- 34.97 222- 34.975 333- 13.93 334- 10.83	111- 28.07 121- 35.69 211- 34.97 222- 34.975 333- 13.93 334- 10.83	In Annual return 111 reserves figures is furnished incorrectly. Violation of Rule 45(c) of MCDR, 2017 is pointed out.
1f	General remarks of inspecting officer on geology, exploration etc.	The limestone of the area is purple grey in colour and are of regular stratified, tabular regular deposit. In the lease area, 61.78 ha area is covered under G1 scale, 132.05 ha under G2 scale exploration. In approved Mining Plan for the period from 2016-17 to 2020-21, 85 boreholes were proposed during 2016-17 to 2017-18, against which 33 boreholes have been drilled during the period. For exploring remaining area of 58.26 ha, 52 boreholes have been proposed in approved document during the year 2021-22 and 2022-23. Therefore, violation is not pointed out.		

Development

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
2a	Location of development w.r.t. lease area	540660 E - 540810 E 2368235 N to 2368350 N	540660 E - 540810 E 2368235 N to 2368350 N	Development quarry as proposed.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	As proposed.

2c	Stripping ratio or ore to OB ratio	0	0	Nil waste generation reported during the year
2d	Quantity of topsoil generation in m ³	0	0	Nil reported
2e	Quantity of overburden/waste generation in m ³	0	Nil	No waste generation envisaged in approved plan during the year.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The quarry development is done as proposed in approved document. No waste generation was envisaged during the year in approved plan during the year.		

Exploitation

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
3a	Number of pits proposed for production	1	1	As proposed.
3b	Quantity of Limestone production proposed	1,48,725	80,729.5	Due to lack of demand from the cement plant and land area acquisition problem.
3c	Recovery of salable/usable mineral from ROM production	1,48,725.00 Ton	80,640.52	Same as above.
3d	Quantity of mineral reject generation	Nil	Nil	No generation
3e	Grade of mineral reject generation and threshold value declared	NA	NA	No generation
3f	Quantity of sub-grade mineral generation	Nil	Nil	No generation
3g	Grade of sub-grade mineral generation	NA	NA	No generation
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not done	Not needed.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	Not applicable.
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	Done as proposed.
3k	Provision of mining machineries in mineral benches	Yes	Yes	Done as proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining	Yes	Yes	As proposed

	proposed in MP/SOM			
3m	Total area covered under excavation/pits	2.00 Ha.	1.742 Ha.	Mining operation is on low scale due to lack of demand
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	No ob generation during the year
3o	Total area put in use under different heads at the end of year	Area under mining: 2 Ha. OB dump: 3.84 Roads: 1 ha Green belt: 5 ha	Area under mining: 1.74 Ha. OB dump: 2.59 Roads: 0.1 ha Green belt: 5 ha.	Quarry area is less due to less mining activity
3p	Production of ROM mineral during last five-year period, as applicable (tonnes)	2016-17: 0.000 2017-18: 0.000 2018-19: 50010 2019-20: 99000 2020-21: 148725	2016-17: 0.000 2017-18: 0.000 2018-19: 16362.69 2019-20: 48722.23 2020-21: 80729.5	Less production due to less demand from cement plant and lack statutory clearances
3q	General remarks of inspecting officer on method of mining etc.	Production is less during the last five years as against proposal		

Solid Waste Management-Dumping

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed since only top soil is generated.	Nil	
4b	Location of topsoil, OB & mineral reject dumps	During the year no generation of top soil envisaged. During the year 2018-19 & 2019-20 top soil was proposed for stacking in on northern side of the lease in block 9(541305 E to 541544 E 2368934 N to 2369160 N)	541305 E to 541544 E 2368934 N to 2369160 N	(previous year Existing Dump Location as proposed in approved plan.)
4c	Number of dumps within lease area and outside lease area	2	2	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As proposed
4e	Number of active & alive dumps	2	2	As proposed

4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	NA	NA	Not matured.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	As proposed
4i	Length of Retaining wall or garland drain all along dump	1000 M	1390 M	As proposed
4j	Number of settling ponds	NA	NA	Not required.
4k	Specific comments of inspecting officer on waste dump management	Waste in form of top soil have been stacked on northern side of the lease in block 9 area and area used for plantation purpose.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	No area is matured.
5b	Area under backfilling of mined out area	Nil	Nil	No area is matured
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	yes	Used for plantation purpose.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	No area is mined out.
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mining operations are at initial stage and no area is mined out yet.		

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	Not submitted.	Violation of Rule 26(2) of MCDR, 2017 is pointed out.
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	Nil	Nil	No area is matured for rehabilitation
	ii) Afforestation done (ha)	1.00	1.00	Plantation is done on top stacked area.
	iii) No. of saplings planted during the year	2000	3790	Plantation is more than the proposed.
	iv) Cumulative no. of plants	6000	9699	As above.
	v) Any other specific method of rehabilitation	Nil	Nil	Not required at present
	vi) Cost incurred on watch & care during the year	Not furnished.	Not furnished.	
6c	Compliance on reclamation and rehabilitation by backfilling	NA	NA	No area is mined out to develop any water

	i) Voids available for backfilling (L *B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			reservoir.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Not done	Waste dump area are active and not matured for any rehabilitation activity.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	Done as proposed.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Top soil generated are stacked on northern side. Plantation is done on top soil stacked area.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	Not required for Limestone
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	Not required for Limestone
7c	Different grade of mineral sorted out at mines	No proposal	Nil	Not required for Limestone
7d	Any beneficiation process at mines	No proposal	Nil	Not required for Limestone
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No separate sorting grade wise is required is required for Limestone.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Plantation	Plantation	Done as per proposal.
8b	Concurrent use or storage of topsoil	Both stacking and concurrent use	Both stacking and concurrent use	Done as proposed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only top soil generation envisaged during the period.	Top soil are stacked.	Done as proposed. From 2021-22 onwards separate dumps are proposed and done as proposed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring	Plantation &	Plantation & Boundary Cover	Done as

	the land to its original use	Boundary Cover		proposed.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Not required at present.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	6000	9699	Done in excess of proposal.
8g	Survival rate	85	80	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	During the period 2020-21, no separate dumps are proposed. From 2021-22 onwards, separate dumps are proposed in approved document and done as proposed.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within times		
S.N.	Item		Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Birendra Banjare Geologist: Shri Sanjay Arora	Both Mining Engineer and Geologist have been appointed.	Information is correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current working: 1.74 ha Reclaimed& rehabilitated: 3.4 ha Occupied by plant & building: 1.1 ha	Figure cited for area reclaimed & rehabilitated is incorrect	Violation of Rule 45 (c) of MCDR, 2017 is pointed out.
9d	Scrutiny of Annual return on afforestation	Plantation of 3790 saplings reported	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Correct information	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Correct information	No stock found during the visit
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs 242	Appears to be correct	Since mineral is for captive consumption ex mine price and cost of production are same.
9i	Scrutiny of Annual return on fixed assets	Rs 372018148	Based on market value of land	Appears to be correct.
9k	Scrutiny of Annual return on mining machineries	Backhoe (1.4 capacity)-01 , Blast hole drill (110mm)-01, Explosive van(7tonnes)- 01, Dozer(380HP)- 01, Tractor(300HP)- 01, Tipper(16cum)- 05, water	Appears to be correct.	Found in use during the visit.

		tanker(2000 litres)- 01		
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10. Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

During the current inspection following violations are observed:

नियम	उल्लंघन के प्रकार का ब्यौरा
26 (2)	A yearly report as per the format specified by Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2020-21.
45(5) (c)	(i) Quantity of mineral reserves figure of 111 is furnished incorrectly in submitted Annual Return for the year 2020-2021. (ii) Under surface area utilization, figures for area reclaimed and rehabilitated is furnished incorrectly.
46(a)	Notice of appointment of Geologist is not submitted

During the previous inspection, violation of Rule 11(1) of MCDR, 2017 was pointed out. All violations pointed out were found rectified.

(D.DASH)
Sr. Mining Geologist
Indian Bureau of Mines,
Raipur Regional office