

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-61/GOA

Mine code : 38KAR26058

- (i) Name of the Inspecting : **NKK**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Pavan Deshmukh, DGM- Mines, Shri. B V Palguna,
Official with
Designation
- (iv) Date of Inspection : 28-AUG-23
- (v) Prev.inspection date : 31-AUG-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUDDAPUR(2343)**
- (b) **Registration NO.** : **IBM/418/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : muddapur
Taluka : mudhol
Post office : muddapur
Pin Code : 587313
FAX No. : 08350-289001
E-mail : factory.muddapur@jkcement.c
Phone : 08350-289000
- (f) Police Station : LOKAPUR
- (g) First opening date : 01-DEC-07
- (h) Weekly day of rest : SUN
2. Address for : J.K.CEMENT WORKS, MUDDAPUR
correspondance P.O.-MUDDAPUR, TQ-MUDHOL
DIST.-BAGALKOT, KARNATAKA
3. (a) Lease Number : KAR1526
- (b) Lease area : 161.87
- (c) Period of lease : 50
- (d) Date of Expiry : 31-MAR-30
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : J.K.CEMENT LTD
 KAMLA TOWER KANPUR UP
 KANPUR UTTAR PRADESH
 Phone:0512-2371478
 FAX :0512-2399854

Owner : K. N. Khandelwal
 Kamla Tower KANPUR URBAN
 UTTAR PRADESH
 Phone:
 FAX : 05122399854

Agent : ANTRIKSHA KUMAR JAIN
 J. K. Cement Works,
 Villiage-Muddapur Taluka-
 Mudhol BAGALKOT KARNATAKA
 Phone: 08350-289104, 9686502250
 FAX : 08350-289001

Mining Engineer

Name : K.VENKATESHWARLU,Full Time
 Qualification : B.TECH (MINING) WITH 14 YRS. EXPERIENCE
 Appointment/ : 03-FEB-20
 Termination date

Geologist

Name : Vivek Kushwaha.,Full Time
 Qualification : M.Sc. Tech (Geology)
 Appointment/ : 28-JUN-22
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	01-DEC-06
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	22-AUG-11
	:	Modif.approved Mining Scheme	04-MAR-14
	:	MP modif under MCR 1960	03-MAR-16
	:	MP modif under 17(3) MCR 2016	25-MAY-18
	:	MP review under 17(1) MCR 2016	18-NOV-20
	:	MP modif under 17(3) MCR 2016	26-AUG-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Exploration done in 2019-20 & No backlogs	No exploration proposed in Yr 2022-23
1b	Exploration over lease area for geological axis 1 or 2	No proposal	G1: 157.77 Ha. G2: 4.10 Ha.	No exploration proposed in the year 2022-23. Remaining G2 areas are proposed for G1 level exploration in 2025-26.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	NIL	
1e	Balance reserve as on 01/04/20		70.32 Million Tonnes. Limestone quality: 34 to 50% CaO.	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration was done as per approved document. 157.77 Ha. of the ML area is explored by the lessee under G1 level by drilling with 184 nos. of boreholes, drilled from 2006-07 to 2020-21 period. Limestone quality: 34 to 50% CaO.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Proposed in Pit2: C/s 17.5 to 19.5 E:535051 to E:534946 & N:1793953 to N:1793814 Pit3: C/s 22.5 to 25 E:535439 to E:535204 & N:1794337 to N:1794319 RL 525 to 538	Pit2: C/s 17.5 to 19.5 E:535051 to E:534946 & N:1793953 to N:1793814 RL 525 to 538 Pit3: C/s 22.5 to 25 E:535439 to E:535204 & N:1794337 to N:1794319 RL 538 to 525	No change in development locations.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches in ore maintained.	
2c	Stripping ratio or ore to OB ratio	1: 0.034	1:0.01	Waste generation is very less in the RY.
2d	Quantity of topsoil generation in m3	1028 m3	668 m3	Top soil generation was more in the year 2021-22 and used for plantation.
2e	Quantity of overburden generation in m3	41400 m3	6259 m3	OB generation is less from the approved document. Violation pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Violation under rule 11(1) has been issued for the less overburden was reported during the year against the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Three (03) nos. of pits proposed.	Three pits are present in the ML area.	
3b	Quantity of ROM mineral production proposed	2 million tonnes	1.53 million tonnes	As per lessee, the limestone production was reduced based on plant requirement.
3c	Recovery of sailable/usable mineral from ROM production	98.5% proposed.	100% recovery achieved during R Y	
3d	Quantity of mineral reject generation	No proposal	NIL	No reject generation is proposed
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	No reject generation is proposed
3f	Quantity of sub grade mineral generation.	No proposal	NIL	No reject generation is proposed
3g	Grade of sub grade mineral generation	No proposal	NIL	No reject generation is proposed
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	There is no segregation of material adopted. Crusher of 950Tph is operated to reduce size in range of 40 to 85 mm
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No proposal	ROM is used for manufacturing of cement without any beneficiation.
3j	Provision of drilling and blasting in mineral benches	Proposed to drill by deep hole driller and blasting.	Deep hole drilling & blasting carried out	Deep hole drilling is carried out by 115mm & blasting carried out by using ANFO, slurry explosives

3k	Provision of mining machineries in mineral benches	Proposed with hydraulic excavators, rock breaker and dumpers.	HEMM used. In Combination of backhoe & tippers, Drills, dozer, Rock breaker, water tanker are in use	List of HEMM used are as follows: Drills- 02 nos; Backhoe- 02 nos; Tippers- 10 nos; Breaker - 01 no; Dozer - 01 no; Water tanker- 01 no;
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Bench height in OB & ore are practiced as proposed; Height of bench: 8m Width of bench: 10m	
3m	Total area covered under excavation/pits	41.69 Ha. Total 44.52 Ha. proposed in the approved RMP at the end of F.Y. 2025-26.	40.04 Ha	Actual pit extent is as per the approved document.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.034	1:0.01	waste generation is less during 2022-23. VL issued for the same.
3o	Total area put in use under different heads at the end of year	Area under mining- 41.69Ha; Mineral storage- 0.67Ha; Infrastructure -0.09Ha; Roads- 3.1 Ha;	Area under mining- 40.04Ha; Mineral storage- 0.67Ha; Infrastructure-0.097Ha; Roads- 2.82 Ha;	Actual land utilization is mentioned as per the submitted AR 2022-23. Proposals are given as per the approved RMP, at the end of F.Y. 2025-26.
3p	Production of ROM mineral during the last five year period as applicable	2018-19:1.3 MioT 2019-20:1.5MioT 2020-21:1.5MioT 2021:1.5 MioT 2022-23:2.0MioT	2018-19: 0.902 Mio T 2019-20:1.238 Mio T 2020-21:1.295 Mio T 2021-22:1.497MioT 2022-23:1.53Mio T	

3q General remarks of inspecting officers on method of mining etc.

OB generation was reported less during the year against the proposal. Violation under rule 11(1) has been issued dated 19/04/2024.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil and OB proposed.	OB generated is used for roads maintenance & berm purpose. Topsoil generated is used in plantation	No proposal made for dumping of OB, topsoil & mineral reject
4b	Location of topsoil, OB and mineral reject dumps	Location of OB: Pit2: C/s 17.5 to 19.5 E:535051 to E:534946 & N:1793953 to N:1793814 RL 525 to 538 Pit3: C/s 22.5 to 25 E:535465 to E:535184 & N:1794339 to N:1794319 RL 538 to 522	Location of OB: Pit3: C/s 22.5 to 25 E:535439 to E:535204 & N:1794337 to N:1794319 RL 538 to 525	No proposal made for dumping of OB, but as per proposal it is used for road maintenance, berm preparation. Topsoil generated is used in afforestation purpose.
4c	Number of dumps within lease area and outside of lease area	Lease area = Nil Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	No waste dump is present within ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active and alive dumps.	Nil	Nil	

4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			Top soil is being utilized for plantation purpose along the safety zone areas. Waste is reported to be utilized for haul road maintenance.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil as the mine pit was not matured	Mineral is not exhausted fully. Area not matured for backfilling; therefore backfilling is not envisaged.
5b	Area under backfilling of mined out area	Nil	Nil	Mineral is not exhausted fully. Area not matured for backfilling; therefore backfilling is not envisaged.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.

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).	Proposed.	Annual report on PMCP submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Not specified.	Apprx. 15000 nos. within ML area.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Not specified	No record.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic monitoring Proposed.	Environmental monitoring is carried out periodically and parameters are found within stipulated limit	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations are found as per the approved proposals

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed directly to the captive plant.	ROM is directly sent to the captive cement plant for crushing and blending as per requirement.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The ROM is directly sent to the captive cement plant, located at a distance of 2 km from the ML area, where it is crushed. The ROM at plant is blended at the crusher to meet the requirement of the captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	Top soil is separately removed and utilized for plantation.	Topsoil is used for plantation purpose
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed.	Top soil is being utilized for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	No proposal made for dumping of OB, but as per proposal it is used for road maintenance, berm preparation. Material generated below threshold value (<34% CaO) is consumed along with high grade material by proper blending.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed during conceptual stage.	Not applicable as of now.	
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 and additional plantation done (Rule 41)	Proposed.	Plantation (2022-23) within lease- 775 nos. Plantation (2022-23) outside lease- 5875 nos. Cumulative plantation within lease - 20220 nos; Cumulative plantation outside lease - 26286 nos;	

8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed by using water tanker.	Water tanker is operated to suppress dust generated in haul roads, wet drilling is practiced to avoid dust during drilling	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty around the mining area is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	MR Submitted up to = July'23 AR Submitted up to = Yr 2022-23	Annual Return of 2022-23 submitted on 30.06.2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer: Shri Venkateshwarlu K. Geologist: Shri Hemant Verma	Manager & Mining Engineer: Shri Venkateshwarlu K Geologist: Shri Vivek Kushwaha.	Notice of appointments in respect of Mining Engineer and Geologist are submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	No change.	
9d	Scrutiny of Annual return on afforestation	Yes	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished as Nil	No mineral reject generation during 2022-23.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Actual was also same at that time.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	found in order.
9h	Scrutiny of Annual return on fixed assets	Yes	Mentioned in the AR.
9k	Scrutiny of Annual return on mining machineries	Yes	found in order.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	19-APR-24			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines