

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-62/GOA

Mine code : 38KAR26059

- (i) Name of the Inspecting : **NKK**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Vikram Singh -Sr. GM Mines
Official with
Designation
- (iv) Date of Inspection : 29-AUG-23
- (v) Prev.inspection date : 30-AUG-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HALKI (2344)**
- (b) **Registration NO.** : **IBM/418/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BAGALKOT
Village : HALKI
Taluka : MUDHOL
Post office : NINGAPUR
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 (UNIT: J.K.CEMENT LTD)
Mudhol, Dist-Bagalkot, Karnataka
3. (a) Lease Number : KAR1525
- (b) Lease area : 124.24
- (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 : Mr.R.B.M.Tripathi
 J.K.Cement Works, Muddapur
 Mudhol Tq, Bagalkot-Dist
 Karnataka-587122 BAGALKOT
 KARNATAKA
 Phone: 08350289000
 FAX : 08350289001

Mining Engineer

Name : Shri Pavankumar Deshmukh, Full Time
 Qualification : B.Tech- Mining
 Appointment/ : 03-FEB-20
 Termination date

Mining Engineer

Name : K.VENKATESHWARLU, Full Time
 Qualification : B.TECH (MINING) WITH 14 YRS. EXPERIENCE
 Appointment/ : 15-APR-16 03-FEB-20
 Termination date

Geologist

Name : Shri Rajib Banerjee, Full Time
 Qualification : M.Sc- Geology
 Appointment/ : 18-JUL-22
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	01-DEC-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	16-JAN-09
	:	Mining Scheme rule 12 MCDR1988	22-AUG-11
	:	MP modif under MCR 1960	03-MAR-16
	:	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	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 123.11 Ha. G2: 1.13 Ha.	Remaining 1.13 Ha. of G2 areas are proposed for G1 level exploration in 2025-26.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	G1 achieved in 123.11 Ha. area	Remaining 1.13 Ha. of G2 areas are proposed for G1 level exploration in 2025-26.
1e	Balance reserve as on 01/04/20		Balance reserves as on 01.04.2023 - 49.660 million tonnes. Limestone quality: 34 to 50% CaO.	
1f	General remarks of inspecting officers on geology, exploration etc			So far, 123.11 Ha. of the ML area is explored by the lessee under G1 level by drilling with 160 nos. of boreholes, drilled from 2006-07 to 2020-21 period.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1795154 to N- 1795174 E-523871 to 523847 N-1794158 to N-1794386 E-525516 to 525966	N-1795154 to N- 1795174 E-523871 to 523847 N-1794158 to N-1794386 E-525516 to 525966	Generated Waste was utilized in Bunds along the lease boundary and for Road Making

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	1:0.04	1:0.1	
2d	Quantity of topsoil generation in m3	5280 m3	2809 m3	
2e	Quantity of overburden generation in m3	36210 m3	62105 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Generated Waste was utilized in Bunds along the lease boundary and for Road Making

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two (02) nos. of pits proposed.	Two pits are present in the ML area.	
3b	Quantity of ROM mineral production proposed	2.070 MTPA	1.616 MTPA	
3c	Recovery of sailable/usable mineral from ROM production	2.0 MTPA	1.523 MTPA	As the mine is captive, limestone production depends on plant requirement
3d	Quantity of mineral reject generation	Nil	Nil	Cutoff grade and TLV is 34%CaO, so no mineral rejects
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

3f	Quantity of sub grade mineral generation.	NA	NA	Limestone above TLV are consumed by plant hence no subgrade mineral
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	No subgrade mineral hence no segregation
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	Provided	Provided	Deep hole drilling and controlled blasting adopted
3k	Provision of mining machineries in mineral benches	Provided	Provided	2 Drills, 2 Excavators, 1 Dozer and 1 Rock Breaker deployed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Suitable	The height of bench in Mineral and OB are same and as per MP/SOM
3m	Total area covered under excavation/pits	37.60 Ha. proposed in the approved RMP at the end of F.Y. 2025-26.	29.90 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0.06	

3o Total area put in use under different heads at the end of year

Mine working - 30.45 Ha,	Mine working - 34.70 Ha,
waste disposal- 6.71Ha,	waste disposal- 7.30 Ha,
Reclamation and Rehabilitation - 0.0Ha	Reclamation and Rehabilitation - 0.0Ha
Infrastructure & Roads- 2.02 Ha.	Infrastructure & Roads- 2.02 Ha.
Afforestation- 0.40 Ha.	Afforestation- 0.40 Ha.
- 0.0Ha	- 0.0Ha
Infrastructure & Roads- 0.19Ha.	
Afforestation- 0.22 Ha.	

3p Production of ROM mineral during the last five year period as applicable

2018-19:	2018-19: 1133375
1999995	2019-20: 1151905
2019-20:	2020-21: 1348132
1999995	2021-22: 1493700
2020-21:	2022-23: 1522800
1999995	(in tons)
2021-22:	
1499995	
2022-23:	
2000000	
(in tons)	

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

Method of working is found as per approved document.

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.	Top Soil is being used for plantation. OB used for bunds and roads No Mineral Rejects generated	

4b	Location of topsoil, OB and mineral reject dumps	N-1795154 to 1795174 E-523871 to 523847 N-1794158 to N-1794386 E-525516 to E-525966	N-1795154 to 1795174 E-523871 to 523847 N-1794158 to N-1794386 E-525516 to E-525966	Generated Waste was utilized in Bunds along the lease boundary and for Road Making
4c	Number of dumps within lease area and outside of lease area	Lease area = 02 Non Lease area = Nil	Lease area = 02 Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dump: CS 2.5-2.5' to 3.5-3.5' RL 620- 610 m Dolomitic Limestone Dump: CS9.5-9.5' to 10.5-10.5' RL 610- 602 m	Waste dump: C-S 0.5-0.5' to 3.5-3.5' RL 615- 609 m Dolomitic Limestone Dump: CS 10.5-10.5' to 11.5-11.5' RL-596.7-592.1	
4e	Number of active and alive dumps.	02	02	
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.	Provided	Provided	
4i	Length of Retaining wall or garland drain all along dumps	100	100	No dolomitic Limestone dump formed
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Solid Waste Management-Dumping is found as per approved document.

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	NIL	Nil as the mine pit was not matured for backfilling.
5b	Area under backfilling of mined out area	NIL	NIL	
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 pits were 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	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.22 Ha.	0.40 Ha.	
6d	No. of saplings planted during the year	550 Nos.	11736 Nos.	Includes MIYAWAKI Plantation
6e	Cumulative no .of plants	Not specified	40001 Nos.	

6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Not specified.	141300	Gardener Salary
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x 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)	Complied	Complied	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations are found to be carried out 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.	No proposal	Not applicable at mine level.	
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 6 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 cement plant.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal made for separate removal and utilization for green belt development.	Top soil is separately removed and utilized for plantation.	
8b	Concurrent use or storage of topsoil	Utilization	Utilized	For afforestation purpose in the area proposed for plantation in FY 2022-23
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for Dolomitic Limestone Dump	Nil	No dolomitic limestone handled in RY as per records.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	FY 2022-23 Area-0.22 Ha No of saplings- 550	Existing Plantation- 28265 FY 2022-23- 11736 Nos Cumulative Plantation Done and Area Covered Plantation-40001 Area- 11.05 Ha.	
8g	Survival rate	85% proposed.	85%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Complied	
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		MR Submitted within time AR Submitted up to = FY 2022-23	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Sri Pavankumar Deshmukh- Mining Engr Sri Rajib Banerjee- Geologist.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Mine working - 30.45 Ha, waste disposal- 6.71Ha, Reclamation and Rehabilitation - 0.0Ha Infrastructure & Roads- 0.19Ha. Afforestation-0.22 Ha.
9d	Scrutiny of Annual return on afforestation	Yes	550 Nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM - 1522800 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	found in oreder
9h	Scrutiny of Annual return on fixed assets	Yes	fixed assets is reposted as Rs. 613216,681/-
9k	Scrutiny of Annual return on mining machineries	Yes	Dozer: 1 no. Back Hoe: 3 nos. Tipper: 18 nos. Pumps: 1 no. Air Compressor: 2 nos. Rock Drill: 1 no.

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

Date :**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines