

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT 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 : **SP01** ) **SURESH PRASAD**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Deepak Kalla -GM Mines  
Official with  
Designation
- (iv) Date of Inspection : 30-AUG-21
- (v) Prev.inspection date : 03-MAR-20

**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.co
- 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 : 124.29
- (c) Period of lease : 20
- (d) Date of Expiry : 20-NOV-18
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 : K.VENKATESHWARLU,Full Time  
 Qualification : B.TECH (MINING) WITH 14 YRS. EXPERIENCE  
 Appointment/ : 15-APR-16  
 Termination date

## Geologist

Name : Madhusudana S.B.,Full Time  
 Qualification : MSc-Geology  
 Appointment/ : 04-MAR-15  
 Termination date

## Manager

Name : K.Venkateshwarlu  
 Qualification : FCC Certificate  
 Appointment/ : 01-MAY-11  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	01-DEC-06
		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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Completed explorations and same has reflected in the current RMP wef 2021-22.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Completed explorations and same has reflected in the current RMP wef 2021-22.
1e	Balance reserve as on 01/04/20		As per Annual return 200-21as on (01.04.2021) 46.626 MT	CaO +35%
1f	General remarks of inspecting officers on geology, exploration etc		Exploration as proposed in the approved documents has already and same has reflected in the current RMP.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1: E: 526044 to E: 526630 N: 1794135 to N: 1794347 C-S 5.5-5.5' to 11.5-11.5' RL 570-562 m  Pit-2: Nil	Pit-1: E: 525972 to E :526713 & N: 1794035 to N: 1794375 C-S 5.5-5.5' to 11.5-11.5' RL 599-563 m  Pit-2: E: 528207 to E :528359 & N: 1793424 to N: 1793578 C-S 28.5-28.5' to 30.0-30.0' RL 596-588 m	Pit 2 was operated as planned in the previous years of Mining Plan & thus backlog has rectified.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	

2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.003	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	NIL	2667 m3(4000T)	OB generated is used for bunds. Sp Gr.-1.5
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Observed satisfactory. Two pits are working simultaneously.	

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit-1 Pit-2	Pit-1 Pit-2	Pit 2 was operated as planned in the previous years of Mining Plan
3b	Quantity of ROM mineral production proposed	2.0 MT	1.35 MT	As the mine is captive, limestone production depends on plant requirement
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	No reject generation
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	ROM despatched	ROM despatched	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	ROM despatches to captive Plant.
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	8 m	Yes	
3m	Total area covered under excavation/pits	30.45 Ha.	27.45 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.00	1:0.002	Less OB generated during mining operations
3o	Total area put in use under different heads at the end of year		O/C-27.45Ha Waste disposal-7.037Ha Plat build-0.198Ha Others-36.393Ha	As per AR 2020-21
3p	Production of ROM mineral during the last five year period as applicable	2016-17= 2.0 MT 2017-18= 2.0 MT 2018-19= 2.0 MT 2019-20= 2.0 MT 2020-21= 2.0 MT	2016-17 = 1.993 MT 2017-18 = 0.544 MT 2018-19 = 1.133 MT 2019-20 = 1.250 MT 2020-21 = 1.348 MT	As per AR&MP MT-Million Tonnes
3q	General remarks of inspecting officers on method of mining etc.		Shovel tipper combination with deep hole drilling and controlled blasting is adopted.	

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Top Soil will be used for plantation. Dumping of OB proposed No Mineral Rejects generated	
4b	Location of topsoil, OB and mineral reject dumps	Top soil -Nil Mineral reject nil Overburden- No fresh dump	Top soil - Nil Mineral reject -nil Overburden- No fresh dump	
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	Old dump has maintained.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	02	02	01 Waste Dump and 01 Dolomitic dump
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.	NIL	Provided	Constructed along existing waste dump & Dolomitic Limestone dump are being maintained.
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	Completed along existing waste dump & Dolomitic Limestone stock in the FY2019-20
4j	Number of settling ponds	01	01	Behind the Waste Dump area settling ponds are formed to arrest the silt
4k	Specific comments of inspecting officer on waste dump management		Waste generation for the assessment year was very less. So no separate dump is reported in the year 2020-21 however, existing dumps are being maintained.	

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NIL	NIL	Mineral not exhausted fully. Area not matured for backfilling; therefore backfilling is not envisaged.
5b	Area under backfilling of mined out area	NIL	NIL	Mineral 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	Mineral not exhausted fully. Area not matured for backfilling; therefore backfilling is not envisaged.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Area not matured for reclamation & rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral not exhausted fully. Area not matured for backfilling; therefore backfilling/ reclamation are not envisaged.	

#### 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	Complied	Submitted along with Self-Appraisal Note before 30th June 2021
6b	Area available for rehabilitation (ha) .	NIL	NIL	Area not matured for rehabilitation.
6c	afforestation done (ha).	0.37 Ha.	0.44 Ha	Species such as Neem, Gulmohar, Karanj, Tapsi, Guava, Tamarind, Hunge, were planted.
6d	No. of saplings planted during the year	925 nos.	1090 Nos.	

6e	Cumulative no .of plants		27165 nos.	As reported by mine management.
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year		NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	Mineral not exhausted fully. Area not matured for backfilling; therefore backfilling/ reclamation are not envisaged.
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	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	Mineral not exhausted fully. Area not matured for backfilling; therefore backfilling/ reclamation are not envisaged.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Envoronmental Monitering	Envoronmental Monitering carried out	within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Plantation on safety belt area and nonmenerlized area carried out towards the PMCP compliance & progressive closure operations	

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	Mechanically done at plant level.
7c	Different grade of mineral sorted out at mines.	NIL	NIL	ROM dispatch to captive plant for further processing by grinding & blending.
7d	Any beneficiation process at mines .	NIL	NIL	ROM dispatch to captive plant for further processing by grinding & blending.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Observed appreciable efforts towards the mineral conservations & zero waste mining. Even generated waste slightly below threshold value L/s material (<34% Cao) is also being reportedly consumed with high grade L/s material with blending with materails of sister mines.	

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**Environment:**

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	For afforestation purpose	For afforestation purpose	
8b	Concurrent use or storage of topsoil	For afforestation purpose	For afforestation purpose	Assessment year- Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Mineral not exhausted from the pit.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		FY 2020-21- 1090 Nos	Within the Mining Lease area.
8g	Survival rate		80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Complied	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Observed very good aesthetic beauty area in and around the mine office with maintaining the good plantation.	

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = July 2021 (Annexure-II) AR Submitted up to = FY 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C-27.45Ha Waste disposal-7.037Ha Plat build-0.198Ha Others-36.393Ha	O/C-27.45Ha Waste disposal-7.037Ha Plat build-0.198Ha Others-36.393Ha	

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9d	Scrutiny of Annual return on afforestation	Within-1090nos Survival 85%	Within-1090nos Survival 85%	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock:- ROM- Nil Cement Grade-120772.6 T	Closing stock:- ROM- Nil Cement Grade-120772.6 T	Found satisfactory
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price- 241.34 Rs/T Production cost-241.34 Rs/T	Captive consumption of Limestone.	
9h	Scrutiny of Annual return on fixed assets	Furnished	Value of Fixed Assets (in Rs) 395682608	
9k	Scrutiny of Annual return on mining machineries	Furnished	Backhoe-02, Drill-01 Dozer 01 Tipper 18 & Other ancillary equipment's.	

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**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

**Date :**

**(SURESH PRASAD)**

Indian Bureau of Mines