

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

Review and updation of Mining Plan REPORT

Goa regional office

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

Mine code : 38KAR26059

- (i) Name of the Inspecting : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHR. D.KALLA, G.M.(MINES), P. DESHMUKH & H.VERMA, T
Official with
Designation
- (iv) Date of Inspection : 13-OCT-20
- (v) Prev.inspection date :

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 correspondance** : J.K.CEMENT WORKS, MUDDAPUR
(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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	30 Nos. (1745m)	83 Nos. (5753.20m)	Details provided for 2018-19
1b	Exploration over lease area for geological axis 1 or 2	31 Nos. (1770m) in 2019-20	Nil	Completed in FY 2018-19
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Nil	Exploration work completed as envisaged in approved Mining Plan
1e	Balance reserve as on 01/04/20		47.97 MT	as on March-2020.
1f	General remarks of inspecting officers on geology, exploration etc		Exploration carried out as envisaged in approved Mining Plan. Further exploration proposal has been reviewed and updated in recently approved Review and updation of Mining Plan (RMP), dtd. 18.11.2020.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1 & Pit-2	Pit-1 & Pit-2	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	Topsoil thickness is 0.5 to 1m
2c	Stripping ratio or ore to OB ratio	1:0.048	1:0.046	
2d	Quantity of topsoil generation in m3	1500 te	8760 te	Topsoil generated used for afforestation purpose

2e	Quantity of overburden generation in m3	95500 te	48679 te	Total waste = 57439 te including top soil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development in Second pit is less, as reported due to land acquisition problem and other local issues. Further excavation/development proposal has been reviewed and updated in recently approved Review and updation of Mining Plan (RMP), dtd. 18.11.2020.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits	2 Pits	Development in Second pit is less, as reported due to land acquisition issues.
3b	Quantity of ROM mineral production proposed	2.0 million te	1.25 million te	As reported, limestone production is less due to less requirement from cement plant, as Mine is captive
3c	Recovery of sailable/usable mineral from ROM production		100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
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	NA	NA	
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	Proposed	Deep hole drilling and controlled blasting adopted	
3k	Provision of mining machineries in mineral benches	Proposed	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 height	Around 8 m	
3m	Total area covered under excavation/pits	30.45 Ha. At the end of plan period	About 26 Ha.	Area put to use has been reviewed and updated in in recently approved Review and upadation of Mining Plan (RMP), dtd. 18.11.2020.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.048	1:0.046	
3o	Total area put in use under different heads at the end of year	69.89 Ha. (including public road, canal, green belt etc.) At the end of plan period	About 69 Ha. . (including public road, canal, green belt etc.)	Area put to use has been reviewed and updated in in recently approved Review and upadation of Mining Plan (RMP), dtd. 18.11.2020.
3p	Production of ROM mineral during the last five year period as applicable	2015-16- 1964000 MT 2016-17- 1999995 MT 2017-18- 1999995 MT 2018-19- 1999995 MT 2019-20- 1999995 MT	2015-16- 1933291 MT 2016-17- 1993338 MT 2017-18- 544059 MT 2018-19- 1133375 MT 2019-20- 1250405 MT	

3q General remarks of inspecting officers on method of mining etc. Mechanized open cast mining method being followed with Excavator & dumper combination.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil to be used for plantation. Dumping of OB proposed No Mineral Rejects generation	Top Soil is being used for plantation. Dumping of OB is done on Waste dumps No Mineral Rejects generated	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump: CS 2.5-2.5' to 3.5-3.5' Dolomitic Dump: CS9.5-9.5' to 10.5-10.5'	Waste dump: C-S 2.5-2.5' to 3.5-3.5' Dolomitic Dump: CS9.5-9.5' to 10.5-10.5'	
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)	Outside ultimate Pit Limit	Outside ultimate Pit Limit	
4e	Number of active and alive dumps.	02	02	01 Waste Dump and 01 Dolomitic-Limestone Stock
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.	Proposed	Constructed along existing waste dump & Dolomitic Limestone stock.	
4i	Length of Retaining wall or garland drain all along dumps	104m Retaining wall & 204m garland drain	about 104m Retaining wall & 204m garland drain	

4j	Number of settling ponds	01	02	Behind the Waste Dump area settling ponds are made to arrest the silt
4k	Specific comments of inspecting officer on waste dump management		Waste dump management has been carried out systematically as envisaged in the approved Mining Plan.	

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.	Back-filling not proposed	Nil	
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.		Back-filling has not been proposed in approved Mining Plan (MMP).	

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 with	

6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.52 Ha.	0.52 Ha.	
6d	No. of saplings planted during the year	1300 Nos	1310 Nos	Species such as Neem, Gulmohar, Karanj, Tapsi, Guava, Tamarind, Hunge, were planted.
6e	Cumulative no .of plants		26075 Nos	
6f	Any other method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular Environment Monitoring Proposed	Regular Environment Monitoring being carried out in periodic basis.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Back-filling/reclamation has not been proposed in approved Mining Plan (MMP). PMCP compliance being carried out as envisaged in the approved Mining Plan.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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.	NA	NA	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines .	NA	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM mineral dispatches to plant for captive consumption. In the interest of Mineral conservation, blending of low grade limestone with high grade reported carried out at source and at Crusher.
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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.	Complied with	
8b	Concurrent use or storage of topsoil	Utilization	Utilized	For afforestation purpose in the area proposed for plantation in FY 2019-20
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for OB and Dolomitic Limestone Dump	Separate dumps for overburden/waste & Dolomitic Limestone maintained	
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	Presently excavation is under progress hence no proposal made for restoration, reclamation and rehabilitation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Existing Plantation- 24765 FY 2019-20- 1310 Nos	Within Mining Lease area

8g	Survival rate		around 85%
8h	Water sprinkling on roads to control airborne dust	Proposed	Complied with
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines is very good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = Sep 2020 AR Submitted up to = FY 2019-20	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager/Mining engineer - 01 Geologist - 01	Employed as given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	furnished	
9d	Scrutiny of Annual return on afforestation	No.of Plantation - 1310 Survival rate - 85 %	No.of Plantation - 1310 Survival rate - 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	ROM stock -Nil Production-1.25Mill.T	ROM stock -Nil Production-1.25Mill.T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine price / Production cost - 245.12 per ton	Ex.Mine price / Production cost - 245.12 per ton	Captive mine

9k Scrutiny of List of Mining Deployed as given
Annual return on machinery
mining /HEMM
machineries furnished

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 :

(PREM PRAKASH)

Indian Bureau of Mines