

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI. R.C.PUROHIT, AVP MINES & DEEPAK KALLA, GM, MI
Official with
Designation
- (iv) Date of Inspection : 08-AUG-19
- (v) Prev.inspection date : 19-FEB-19

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.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**
P.O.-MUDDAPUR, TQ-MUDHOL
DIST.-BAGALKOT, KARNATAKA
3. (a) **Lease Number** : **KAR1526**
- (b) **Lease area** : **161.87**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **06-OCT-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 : ANTRIKSHA KUMAR JAIN
 J. K. Cement Works,
 Village-Muddapur Taluka-
 Mudhol BAGALKOT KARNATAKA
 Phone: 08350-289104, 9686502250
 FAX : 08350-289001

Mining Engineer

Name : Pavan Kumar Deshmukh, Full Time
 Qualification : BE Mining With FCC Certificate
 Appointment/ : 13-JAN-18
 Termination date

Mining Engineer

Name : NITIN PUROHIT, Full Time
 Qualification : B.E MINING WITH 23 YEARS EXPERIENCE
 Appointment/ : 07-NOV-14 12-JAN-18
 Termination date

Geologist

Name : Hemant Verma, Full Time
 Qualification : M. Tech Applied Geology)
 Appointment/ : 16-APR-11
 Termination date

Manager

Name : PAVAN KUMAR DESHMUKH
 Qualification : BE MINING WITH FCC CERTIFICATE
 Appointment/ : 15-APR-16
 Termination date

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	28 nos.	NIL	50 nos. of Bore holes carried out in the year 2018-19.
1b	Exploration over lease area for geological axis 1 or 2	3.45 Ha 10 nos. (540m)	8.46Ha 50nos (2935m)	Exploration towards the proposal for the year 2017-18 & 2018-19 has been carried out in the year 2018-19.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s Synergy Geotech, Nagpur Expenditure -51.92lacs Rs.	Figures as per the report submitted by mine management.
1d	Balance area to be explored to bring Geological axis in 1 or 2	6.37 Ha	Exploration work carried out in the year 2019-20.	
1e	Balance reserve as on 01/04/20	55.327 MT	As on 31/03/2019 55.725 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Status of geology and exploration progress observed satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E 534172 to 533981 N 1792744 to 1792435	NIL	No waste handling generation reported in the assessment year.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	However, top soil generation is very less. Further, the waste material is generally intercalated waste within the mineral benches.
2c	Stripping ratio or ore to OB ratio	1:0.060	1:0.00	No waste generation reported in the assessment year.

2d	Quantity of topsoil generation in m3	3200	2165	Top soil generation is very less which are utilized for plantation.
2e	Quantity of overburden generation in m3	48500	NIL	Limestone below threshold value (30-35% CaO) as generated was consumed at plant after blending.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No waste generation was reported in the assessment year 2018-19. Limestone below threshold value (30-35% CaO) as generated was consumed at plant after blending.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	02 numbers of pits were proposed and in operation.
3b	Quantity of ROM mineral production proposed	1.30 MT	0.902 MT	Less production due to the less demand of captive Cement Plant.
3c	Recovery of sailable/usable mineral from ROM production	1.30 MT	0.902 MT	Entire limestone is being used for captive consumption.
3d	Quantity of mineral reject generation	NIL	NIL	No proposal and achieved. However, below THV limestone also reported to consumed in the cement plant after blending.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	THV declared as 35% CaO The
3f	Quantity of sub grade mineral generation.	NIL	NIL	

3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	The ROM is loaded by shovel dumper combination and send to the Cement plant for captive consumption.
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	Yes	Yes	Deep Hole drilling with controlled blasting.
3k	Provision of mining machineries in mineral benches	HEMM	HEMM	Shovel and Tipper Combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	28.16 ha	28.37 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06	1:0.00	
3o	Total area put in use under different heads at the end of year	Total area 49.42 ha	Mining -28.37 ha Safety zone 5.96 ha Mine road-2.77 ha Total 49.36 ha	Figures are as per the report submitted by the mine management.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 2.0MT 2015-16 - 2.0MT 2016-17 - 2.0MT 2017-18 - 2.0MT 2018-19 - 1.3MT	2014-15 - 1.433MT 2015-16 - 0.189MT 2016-17 - 1.389MT 2017-18 - 0.532MT 2018-19 - 0.902MT	

3q	General remarks of inspecting officers on method of mining etc.	Mechanised mining operation is being carried out with Shovel tipper combination and deep hole blasting.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Outside the UPL	NIL	Top soil used for plantaion. OB & MR reported as Nil.
4b	Location of topsoil, OB and mineral reject dumps	02 nos.	NIL	Top soil used for plantaion. OB & MR reported as Nil.
4c	Number of dumps within lease area and outside of lease area	within 02 Outside- nil	No waste generation was reported/achieved in the year 2018-19.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	NIL	
4e	Number of active and alive dumps.	2 nos.	NIL	No waste generation was reported/achieved in the year 2018-19.
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.	Yes	No waste generation was reported/achieved in the year 2018-19. Hence formation dump -NIL	
4i	Length of Retaining wall or garland drain all along dumps	RW length 225m & Garland drain 280M	NIL	Dump formation was Nil. Hence no engineering measures not undertaken.
4j	Number of settling ponds	01 no.	NIL	Dump formation was Nil. Hence no engineering measures not undertaken.

4k	Specific comments of inspecting officer on waste dump management	Waste generation was nil. Hence, dump was not formed.	IT has reported that material below THV 30-35% CaO also consumed in the captive plant.
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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	Mineral is not exhausted fully from the Mine pit, Therefore, area is not matured for backfilling.
5b	Area under backfilling of mined out area	No Proposal	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not aplicable	Not aplicable	Mine area is not matured for backfilling. Top soil is used for plantataion for green belt developement and develepement of aeshthetic beauty.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mine area is not matured for backfilling.	Top soil is used for plantataion for green belt developement and develepement of aeshthetic beauty.

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).	Yes	Submitted within the time frame.	

6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	0.44 Ha	0.44Ha	Plantation were carried out for green belt developement and develepement of aesthetic beauty.
6d	No. of saplings planted during the year	1100nos.	1350 nos.	
6e	Cumulative no .of plants		12170 nos.	Figure, as reported by mine mine management.
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not applicable	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Not applicable	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Complying	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The Mineral is not exhausted fully from the Mining area. Therefore, the R&R work are not being carried out.	The report towards, the PMCP has recieved within the time frame.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral despatched	ROM mineral despatched	ROM mineral is being dispatched directly to captive Cement Plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	ROM is despatched after loading by shovel and transported by trucks to captive Plant.
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	Material supplied based on the blast analysis report.
7d	Any beneficiation process at mines	NIL	NIL	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	It has been reported that Limestone below THV 30-35% are also being consumed in the Plant after blending.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	separate removal and utilization for green belt development.
8b	Concurrent use or storage of topsoil	Utilize for plantation purpose	Utilize for plantation purpose	For developement of green belt and aesthetic beauty
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	02 nos dump were proposed	NIL	NO waste generation reported.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL	
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)		Cummulative Planation 12170 nos.	Figures as per the report provided by mine management .
8g	Survival rate	80%	83.75 %	
8h	Water sprinkling on roads to control airborne dust	Provided	Provided	Water Tanker are deployed for dust supression on haul roads.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Observed good developement of aesthetic beauty near the mine office premises.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted Annual Return for the year 2018-19 & Monthly returns being submitted in time.	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished.	Mining Engineer- Pavankumar Deshmukh Geologist- Hemant Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	O/C working 28.368 ha Others-20.903 Ha	
9d	Scrutiny of Annual return on afforestation	Furnished	Total number of plantation during 2018-19-1350 nos. 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	Grade wise stock in cement grade 147886.220 Tons	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive consumption of Ore. Ex Mine Price 200.47 Rs/T, Cost of Production 200.47 Rs/T	Mineral is used for captive consumption of Cement Plant.	

9h	Scrutiny of Annual return on fixed assets	Furnished	Net closing balance of fixed asset furnished in INR 6666208738/-
9k	Scrutiny of Annual return on mining machineries	Furnished	Loading machine 2 nos Tipper-18 nos. Dozer - 1 no. and other ancilliaris equipments.

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
MCDR17	Rule 11(1)	22-AUG-19			

Date :

(SURESH PRASAD)

Indian Bureau of Mines