

**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. DEEPAK KALLA, GM AND VENKATESHWARLU, MM
Official with
Designation
- (iv) Date of Inspection : 04-MAR-20
- (v) Prev.inspection date : 08-AUG-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** : **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** : **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	10 Nos. (540m)	50 Nos. (2935m)	Completed in the year 2018-19
1b	Exploration over lease area for geological axis 1 or 2	6.37 Ha 40 Nos. (1900m)	6.37 Ha 20 Nos. (911m)	Completed in the year 2019-20
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s Synergy Geotech, Nagpur Rs. 72,68,962/-	As per the report submitted by lessee.
1d	Balance area to be explored to bring Geological axis in 1 or 2	3.80 Ha	Completed	completed in the year 2018-19 & 2019-20
1e	Balance reserve as on 01/04/20	53.952 MT	54.586 MT	Balance reserve calculated by considering actual production upto Feb-2020
1f	General remarks of inspecting officers on geology, exploration etc		Exploration activities has completed and analysis of samples are being done.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E : 534266 to E :534017 & N : 1792808 to N : 1792413 E : 535081 to E :535194 & N : 1793880 to N : 1793360	E : 534017 to E :534254 & N : 1792424 to N : 1792800	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	Thickness of top soil is very less and intercaleted waste only treated as waste which are found in pocket form.
2c	Stripping ratio or ore to OB ratio	1:0.025	1:0.013	Achieved Stripping ratio is up to the date of 29.02.2020

2d	Quantity of topsoil generation in m3	1400	2695	Achieved figure is up to the date of 29.02.2020
2e	Quantity of overburden generation in m3	14000	NIL	Low grade material also consumed by blending.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Overburden development are observed as nil. The low grade material as generated are being consumed for processes after blending with High grade in the plant.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2Pits	2Pits	Proposal and achieved from two pits. However, 3 nos of total pits are developed.
3b	Quantity of ROM mineral production proposed	1.50MT	1.139MT	Achieved production is up to the date of 29.02.2020
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	Low grade also consumed by blending.
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	THV 35%
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NIL	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	However, ROM directly send to captive plant for beneficiation.

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	Provided	Deephole drilling with control blasting by using nonel.
3k	Provision of mining machineries in mineral benches	proposed	provided	HEMM deployed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7-8 m height	yes	
3m	Total area covered under excavation/pits	31.07Ha	29.36Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.025	1:0.009	Achied figure upto Feb 2020.
3o	Total area put in use under different heads at the end of year	Mining - 31.07Ha. Safety Zone 7.5m - 5.96Ha. Buffer Zone (Canal + Road) - 8.71Ha. - 8.71Ha. Mine Road - 2.77Ha. Green Belt - 2.84Ha. Limestone stock - 0.00Ha. Waste Dump - 0.88Ha. Infrastructure - 0.08Ha. Protective Measure - 0.10Ha. Total - 52.41 Ha.	Mining - 29.36Ha. Safety Zone 7.5m - 5.96Ha. Buffer Zone (Canal + Road) - 8.71Ha. Mine Road - 2.77Ha. Green Belt - 2.88Ha. LST Stock - 0.579Ha. Waste Dump - 0.00Ha. Infrastructure - 0.09Ha. Protective Measure - 0.10Ha. Total - 50.45 Ha.	Updated upto 31.12.2019

3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 2.0mMT 2016-17 - 2.0mMT 2017-18 - 2.0mMT 2018-19 - 1.30mMT 2019-20 - 1.50mMT	0.189mMT 1.389mMT 0.532mMT 0.902mMT 1.139mMT	Achieved Production for the year 2019-20 is taken up to the date of 29.02.2020
3q	General remarks of inspecting officers on method of mining etc.	Mechanised method of operation as proposed is being adopted with systematic mining with optimum utalization of Minerals.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal given for OB dump in Modified Mining Plan	Nil	Overburden generation was reported as nil.
4b	Location of topsoil, OB and mineral reject dumps	E : 535543 to E : 535521 & N : 1793701 to N : 1793584	NIL	No proposal made for topsoil dump and generated top soil is utilized for green belt development purpose all along the lease boundary. Generated below threshold value L/s material (<34% Cao) is also consumed with high grade L/s material & proper blending.
4c	Number of dumps within lease area and outside of lease area	Within the Lease area - 1 Nos. Outside Lease area - Nil	NIL	No reject generated till now
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E : 535543 to E : 535521 & N : 1793701 to N : 1793584	NIL	
4e	Number of active and alive dumps.	01	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.	Yes	NIL	No dump established
4i	Length of Retaining wall or garland drain all along dumps	1 No.	NIL	As No dump established
4k	Specific comments of inspecting officer on waste dump management		No proposal / generation of top soil dump and is utilized for green belt development purpose all along the lease boundary.	Reported that material having (<34% Cao) is also being consumed with high grade L/s material & proper blending.

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.	NIL	Mineral not exhasuted from the pit.	Area 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.		Area not matured for backfilling.	

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	complied	Report for the year 2018-19 already submitted.
6b	Area available for rehabilitation (ha) .	NIL	NIL	Area not matured for backfilling.
6c	afforestation done (ha).	ii) 0.25 Ha.	ii) 0.28Ha.	Northside near Pit no.3 Area. Northside near Pit no.3 Area. Basically for green belt dev.
6d	No. of saplings planted during the year	625 nos.	750nos.	
6e	Cumulative no .of plants		12920 Nos.	
6f	Any other method of rehabilitation	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitering on Core and buffer zone	Monitering on Core and buffer zone are being carried out as per the requirement.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM despatch	ROM despatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	ROM despatch	ROM despatch	ROM despatch to plant for captive consumption.
7c	Different grade of mineral sorted out at mines.	NIL	NA	
7d	Any beneficiation process at mines	NIL	NIL	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM despatch to plant for blending, size reducing and other pyro process as required for cement manufacturing.
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Environment:

Sl.No.	Item	Propasals	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	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1	Nil	Generated below threshold value L/s material (<34% Cao) is consumed with high grade L/s material & proper blending is being done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Area not matured for R&R.
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)		12920Nos. Area-10.40 ha	Achieved plantation is up to the date of 29.02.2020

8g	Survival rate		83.75%	Achieved survival rate is up to the date of 29.02.2020
8h	Water sprinkling on roads to control airborne dust	Provided	Provided with water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Mines office area is maintained with good aesthetic beauty by planting deferrent plants species. However, green belt development progress is not found satisfactory.	Violation issued.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = Jan 2020 AR Submitted up to = FY 2018-19	MR Submitted up to = Jan 2020 AR Submitted up to = FY 2018-19	Annual Returns for the year 2018-19 was already sccruitnize by this office during the previous date of inspection on 08.08.2019. Therefore, scruitiny of monthly retuns are carried out.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished in monthly return.	found in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished Monthly Retuns. EX mines price for captive consumption.	EX mines price found in order.	

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)	17-MAR-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines