

**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 : Sri Venkateshwarlu K - Mines Manager, Sri Deepak Kalla
Official with
Designation
- (iv) Date of Inspection : 31-AUG-21
- (v) Prev.inspection date : 04-MAR-20

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
 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	
1b	Exploration over lease area for geological axis 1 or 2	10 Nos. (490m)	Proposed area already explored in the year 2019-20	Completed in the year 2019-20 and same has reflected in the current RMP wef 2021-22.
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	No proposal	NIL	
1e	Balance reserve as on 01/04/20		As per Annual return 200-21as on (01.04.2021) 53.19 MT	CaO +35%
1f	General remarks of inspecting officers on geology, exploration etc		Exploration as proposed in the approved documents has Completed in the year 2019-20 and same has reflected in the current RMP.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit3 E:534312 to E:534109 & N: 1792884 to N: 1792487 C/s-2.5-2.5' to 6.5-6.5' 1) RL- 550 to 530m 2) 3) Pit4 4) E: 535618 to E :535431 & N :1794381 to N :1794152 5) C/s- 23.5-23.5' to 26.5-26.5' 6) RL-539-532m	Pit3 E: 534317 to E:533963 & N : 1792881 to N : 1792336 CS 0.5-0.5' to 6.5-6.5' RL - 557 to 532m Pit4 E: 535626 to E : 535374 N: 1794375? to N: 1794174 CS 24.0-24.0' to 26.0-26.0' RL - 540 to 528m	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	
2c	Stripping ratio or ore to OB ratio	1:0.014	1:0.000	
2d	Quantity of topsoil generation in m3	1400 m3	1333 m3	Used for plantation purpose
2e	Quantity of overburden generation in m3	45000 m3	NIL	Used reportedly only for road maintenance and berms purpose.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Low grade materials are also used for captive purposes after suitably blending towards the interest of scientific & sustainable use of mineral resources.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits	2 Pits	

3b	Quantity of ROM mineral production proposed	1.50MT	1.29MT	As the mine is captive, limestone production is depends on plant requirement.
3c	Recovery of sailable/usable mineral from ROM production	1.50MT	1.29MT	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	
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	Mechanized	Mechanized	Segregation at Plant.
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 with controlled blasting system adopted
3k	Provision of mining machineries in mineral benches	Provided	Provided	HEMM(SHOVEL TIPPER) with deep hole blasting.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Suitable	
3m	Total area covered under excavation/pits	34.62Ha	34.56Ha	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.014	1:0.000	As overburden handling not reported.
3o	Total area put in use under different heads at the end of year		As per the Annual returns 2020-21 & the survey report by the lessee: Mining - 34.56Ha. Safety Zone 7.5m - 5.96Ha. Buffer Zone (Power Line) - 8.71Ha. Mine Road - 3.05Ha. Green Belt - 3.39Ha. LST Stock - 0.673Ha. Waste Dump - 0.00Ha. Infrastructure - 0.09Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 2.0mMT 2017-18 - 2.0mMT 2018-19 - 1.30mMT 2019-20 - 1.50mMT 2020-21 - 1.50mMT	As per AR:- 1.389mMT 0.532mMT 0.902mMT 1.238mMT 1.295mMT	mMT- million metric Tonnes CaO+35%
3q	General remarks of inspecting officers on method of mining etc.		Deep hole blasting with shovel & tipper combinations for optimum utilization of mineral resources towards the zero waste mining.	As the mine is captive, limestone production is depends on plant requirement.

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	Top Soil is being utilized for afforestation purpose.

4b	Location of topsoil, OB and mineral reject dumps	Waste (30 to 35% CaO)- E 535543 to E 535521 N 1793709 to N 1793584 RL 554-546m C/s-20.5-20.5' to 21.5-21.5' Intercalated Waste E 535709 to E 535626 N 1793837 to N 1793717 RL 550-545m C/s-22.5-22.5' to 23.5-23.5'	Nil	No proposal made for topsoil dump and generated top soil is utilized for green belt development purpose at all along the lease boundary area. Generated small qty OB intercalated waste is utilized for haul roads maintenance & for berms making purpose.
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 nos. Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active and alive dumps.	2 Nos.	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.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			Generated waste slightly below threshold value L/s material (<34% Cao) is also consumed with high grade L/s material & proper blending is being done.

Sl.No.	Item	Propasals	Actual work	Remarks
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	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
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).	complied	complied	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	0.28 Ha	0.51ha	Non- mineralized area.
6d	No. of saplings planted during the year	700nos.	2500Nos.	
6e	Cumulative no .of plants		Within the lease-15520 no. & outside Lease 58393 no. planted.	

6f	Any other method of rehabilitation	NIL	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	Mineral not exhausted fully. Area not matured for backfilling; therefore backfilling/ reclamation are not envisaged.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	monitoring (core zone & buffer zone)	complied	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			As the mineral not exhausted fully. Area not matured for backfilling; therefore backfilling/ reclamation are not envisaged. The plantation on non - mineralized area and the safety zone are being carried out towards the PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM despatch	ROM dispatch to captive plant for further processing by grinding & blending.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	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.
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.	

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	For afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	2	Nil	Generated below threshold value L/s material (<34% Cao) is consumed with high grade L/s material & proper blending is being done. Intercalated waste utilized for haul road maintenance and bunds work.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Plantation 2500 nos within & 2300nos outside the lease.
8g	Survival rate		92%
8h	Water sprinkling on roads to control airborne dust	Provided	Provided
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.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = July 2021 AR Submitted up to = FY 2020-21	Within time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed	Complied	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	34.56Ha. Others Purposes- 21.787 Ha Infrastructure - 0.097Ha.	34.56Ha. Others Purposes-21.787 Ha Infrastructure - 0.097Ha.	
9d	Scrutiny of Annual return on afforestation	Within-2500nos Outside2300 nos Survival 91-92%	Within-2500nos Outside2300 nos Survival 91-92%	Good plantation observed.

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-137031.8T	Closing stock:- ROM- Nil Cement Grade-137031.8T	Found satisfactory
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price- 200.22Rs/T Production cost-200.22 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-03, Drill-02 Dozer 01 Tipper 10 Other ancillary	

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