

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **K04**) **DR. Y.G.KALE**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **SHRI. PAWAN KUMAR DESHMUKH, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 19-FEB-19
- (v) Prev.inspection date : 07-JUL-18

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 | There was a proposal to drill 10 boreholes in the year 2018-19. | Lessee has drilled 24 boreholes upto January 2019 and exploration was in progress. | |
| 1b | Exploration over lease area for geological axis 1 or 2 | 3.45Ha | 25 to 30 ha | Against the 10 boreholes lessee has drilled 24 boreholes in b/w the existing boreholes to bring G-3 and G-2 level of exploration to G-1 level. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | | Exploration is carried out by M/s. Synergy Geotech, Nagpur and expenditure incurred was around Rs. 10048915 up to January 2019. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | | Total mineralized area is about 136.23 ha. Out of this about 130 ha is already explored under G-1 level of exploration and exploration is still in progress .Lessee is planing to explore entire mineralized area area under G-1 level in the present plan period. | |
| 1e | Balance reserve as on 01/04/20 | | Reserves as on 01.04.2018 Proved Mineral Reserves (111) 48.699 Million tonnes Probable Mineral Reserves (121/122) 07.928 Million tonnes Remaining Resorces 12.210 Million tonnes Total | 68.837 Million tonnes |

| | | |
|----|--|--|
| 1f | General remarks of inspecting officers on geology, exploration etc | Lessee has drilled about 138 boreholes with a total meterage of 6356.17mtrs upto January 2019 and explored about 130 ha under G-1 level. Exploration was under progress and entire mineralized area will be explored under G-1 level in the present plan period. |
|----|--|--|

Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|---|
| 2a | Location of development w.r.t.lease area | N-1792744 to N-1792435 and N-1793880 to N1793392 and E-534172 to 533981 and E-535081 to E-535136 | Working has been carried out as per the proposals given in the approved document. | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Benches were proposed in ore only. | Only ore benches were made. | OB is found in the form of intercalated clay only and thickness of the topsoil is about 05. to 1.00mtr. Entire topsoil is removed in the proposed area. So separate benches will not be formed in OB and topsoil. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.099 | 1:0 | No OB is handled and recovery is 100 percent. |
| 2d | Quantity of topsoil generation in m3 | 3200 | Nil | Working has been carried out in the broken up area only. So no topsoil was removed up to January 2019. |

| | | | | |
|----|---|-------|--|---|
| 2e | Quantity of overburden generation in m3 | 48500 | Nil | Working has been carried out in broken up area only and recovery was 100 percent. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | Due to market/demand scenario the production is less than the proposal. Against the proposed quantity of 1.3 million tonnes, only 0.67 million tonne ore was produced upto January 2019 and working has been carried out in the already broken up area only. So OB and topsoil was not handled up to January 2019. | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|----------------|-------------------------------|---------|
| 3a | Number of pit proposed for production | 02 | 02 | |
| 3b | Quantity of ROM mineral production proposed | 1.3 MT | 0.67 MT (up to January 2019) | |
| 3c | Recovery of sailable/usable mineral from ROM production | 95% | 100% | |
| 3d | Quantity of mineral reject generation | Nil | Not applicable | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not applicable | Not applicable | |
| 3f | Quantity of sub grade mineral generation. | Nil | Not applicable | |
| 3g | Grade of sub grade mineral generation | Not applicable | Not applicable | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanized | Mechanized | |

| | | | | |
|----|--|----------------------------------|--|--|
| 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 | Deep hole drilling and blasting. | Deep hole drilling and blasting. | |
| 3k | Provision of mining machineries in mineral benches | HEMM | HEMM | |
| 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 | 26.82Ha | 26.82Ha | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.099 | 1:0 | Recovery is 100% |
| 3o | Total area put in use under different heads at the end of year | | Area under mining-26.82 Ha, Roads-2.77Ha, Waste disposal-0.250Ha, Infrastructure-0.08Ha, Green belt-2.70Ha, Others-14.67 Ha. | |
| 3p | Production of ROM mineral during the last five year period as applicable | | 2014-15 2.0 MTPA 2015-16 2.0 MTPA 2016-17 2.0 MTPA 2017-18 2.0 MTPA 2018-19 1.3 MTPA | 2014-15 1.43 MT 2015-16 0.189 MT 2016-17 1.38 MT 2017-18 0.532 MT 2018-19 0.67 MT(Up to January 2019) |

| | | |
|----|---|--|
| 3q | General remarks of inspecting officers on method of mining etc. | Overall the mining operations are carried out in scientific and systematic manner with conventional opencast method. Due to less demand from the captive cement plant, production achieved up to January 2019 is only about 52%. |
|----|---|--|

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|--|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Yes | Nil | No waste and top soil was generated in the year 2018-19. |
| 4b | Location of topsoil, OB and mineral reject dumps | N-1793690 to N-1793584 and N-1793776 to N-1793719 , E-535558 to E-535521 and E-535737 to E-535685 | Nil | No Top soil and Waste was generated in the year 2018-19 (Up to January) and recovery was 100%. |
| 4c | Number of dumps within lease area and outside of lease area | 02 | Nil | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside the UPL | OB dump was not made. | |
| 4e | Number of active and alive dumps. | 02 | 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. | One retaining wall of 225 mtr length was proposed in the year 2018-19. | No retaining wall was constructed on the day of inspection | Violation is pointed out for the same. |

| | | | | |
|----|--|----------|-----|--|
| 4i | Length of Retaining wall or garland drain all along dumps | 225 mtrs | Nil | Violation is pointed out for the same. |
| 4j | Number of settling ponds | Nil | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | | | The working has been carried out in the already broken up area only and recovery was 100%. So no waste and topsoil was handled in the year 2018-19 up to January 2019. |

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 | Nil | Mineral is not extracted upto the proved depth. No backfilling is proposed in the present plan period. |
| 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. | | | Working has not been reached upto the proved depth and no backfilling and reclamation was proposed in the present plan period. |

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). | | Annual report on PMCP for the year 2017-18 is submitted |
| 6b | Area available for rehabilitation (ha) . | Nil | Nil |
| 6c | afforestation done (ha). | 0.44Ha | 0.44Ha |
| 6d | No. of saplings planted during the year | 1100 | 1350 |
| 6e | Cumulative no .of plants | | 12170 |
| 6f | Any other method of rehabilitation | Nil | Nil |
| 6g | Cost incurred on watch and care during the year | NA | NA |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Nil | Nil |
| 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 |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Nil | Nil |

| | | | | |
|----|---|-----|--|--|
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | Nil | Nil | |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | Nil | Nil | |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | Nil | Nil | |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | Nil | Nil | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | | The monitoring is carried out as per the schedule through approved third party and reports are maintained. | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | The various provisions as enumerated in the approved PMCP are being implemented in the mine except retaining wall. The retaining wall was not constructed as per the proposal and violation is pointed out for the same. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-----------|--|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | | No sorting is being done within the lease and entire ROM fed to plant. | |

| | | | | |
|----|--|----------------|----------------|--|
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Not applicable | Not applicable | Entire ROM is fed to plant. |
| 7c | Different grade of mineral sorted out at mines. | Nil | Nil | |
| 7d | Any beneficiation process at mines . | Nil | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | No sorting of ROM is done and entire ROM is being fed to plant without any processing. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|----------------------------|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Yes | Nil | Working has been carried out in the broken up area only and recovery was 100% So no topsoil and OB was handled. |
| 8b | Concurrent use or storage of topsoil | | No top soil was generated. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Yes | No dumps were formed. | Working has been carried out in the broken up area only so no OB was handled in the year 2018-19. |
| 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 |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | | About 12170 no saplings were planted in the lease area. |
| 8g | Survival rate | | 80 to 85% |
| 8h | Water sprinkling on roads to control airborne dust | | Water tanker mounted trucks/tractors are being used for dust suppression. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | The lessee is regularly monitoring the environmental parameters. These are observed to be within permissible limits. Water tanker mounted trucks are used for dust suppression along the haul roads. Plantation is done in the 7.5 mtr safety zone and survival rate is 80 to 85%.The accumulated pit water from pit No-1 is being used as drinking water after treatment through RO. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

9a Status of
submission of
Monthly and
Annual returns

Lessee is
regularly
submitting monthly
and Annual
returns. Scrutiny
of the annual
returns for the
year 2017-18 was
already carried
out by the DCOM
Shri Prem
Prakash, during
previous
inspection dated
07.07.2018. Hence
no further
scrutiny is
carried out.

Details of violations observed during current inspection and compliance position of violation pointed out

| Violation observed | | | Show cause position | | |
|--------------------|------------|---------------|---------------------|-----------|---------------|
| Rule NO. | Issued on | Compliance on | Rule NO. | Issued on | Compliance on |
| MCDR17 | Rule 11(1) | 26-FEB-19 | | | |

Date :

(DR. Y.G.KALE)

Indian Bureau of Mines