

**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-61/GOA

Mine code : 38KAR26058

- (i) Name of the Inspecting : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI D.KALLA, GM(MINES) , P.DESHMUKH AND H.VERMA, T
Official with
Designation
- (iv) Date of Inspection : 17-OCT-20
- (v) Prev.inspection date :

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 | 10 Nos. BHs (540m) | 50 Nos. BHs(2935m) | Completed in the year 2018-19 |
| 1b | Exploration over lease area for geological axis 1 or 2 | 40 Nos. BHs (1900m) | 20 Nos. BHs (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/- | |
| 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 | - | Code-111 = 71.77 mill. Te as on 01.11.2020 | Reserve got reviewed and updated in recently approved Review and updation of Mining Plan (RMP), dtd. 18.11.2020. |
| 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-2 & Pit-3 | Pit-2 & Pit-3 | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Mix benches | Mix benches | |
| 2d | Quantity of topsoil generation in m3 | 2100 Tons | 10000 Tons | |

| | | | | |
|----|---|------------|---|---|
| 2e | Quantity of overburden generation in m3 | 21000 Tons | 13200 Tons | Total waste = 23200 te including top soil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | Development of pits was almost as envisaged in approved MMP. 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 | |
| 3b | Quantity of ROM mineral production proposed | 1.50 mill. Te in 2019-20 | 1.238 mill. Te in 2019-20 | 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 | | 1.238 mill. te | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 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 | Proposed Being carried out | Being carried out | Deep hole drilling and controlled blasting adopted |

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|----|--|--|--|---|
| 3k | Provision of mining machineries in mineral benches | HEMMs proposed to deploy | HEMMs deployed | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 7-8 m height | Yes, Suitable | |
| 3m | Total area covered under excavation/pits | 34.62Ha At the end of plan period | 30.477Ha | As reported in Annual return 2019-20 |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.014 | 1:0.011 | |
| 3o | Total area put in use under different heads at the end of year | 57.18 Ha. (including safety zone green belt etc.) At the end of plan period | About 51 Ha. . ((including safety zone green belt etc.) | Area put to use has been reviewed and updated in in recently approved Review and updation of Mining Plan (RMP), dtd. 18.11.2020. |
| 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 (million Te) | 0.189mMT 1.389mMT 0.532mMT 0.902mMT 1.238mMT (million Te) | Production figure of ROM mineral during last five-year period given as reported in Annual Returns and RMP approved dtd. 18.11.2020. |
| 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 |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|--|---|-------|--|
| 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 | Nil | |
| 4b | Location of topsoil, OB and mineral reject dumps | Proposal given for OB dump only | Nil | |
| 4c | Number of dumps within lease area and outside of lease area | Within the Lease area - 1 Nos. Outside Lease area - Nil | Nil | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Nil | Nil | |
| 4e | Number of active and alive dumps. | 1 No. | 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 | |
| 4i | Length of Retaining wall or garland drain all along dumps | RW length: 25m & GD: 155m | Nil | About 100m retaining wall and 100m garland drain made at surrounding of running Limestone Stock |
| 4j | Number of settling ponds | 1 no. | 1 No. | |
| 4k | Specific comments of inspecting officer on waste dump management | | | Top Soil is being utilized for afforestation purpose. Generated material below threshold value L/s material (<34% Cao) reported consumed with high grade L/s material by blending, which is in the interest of mineral conservation. |

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 | Mineral has not been exhausted from any part of the mine to start 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. | | 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). | | Complied with | |
| 6b | Area available for rehabilitation (ha) . | Nil | Nil | |
| 6c | afforestation done (ha). | 0.25 Ha. | 0.3 Ha. | |
| 6d | No. of saplings planted during the year | 625 Nos. | 850Nos. | |
| 6e | Cumulative no .of plants | | About 13020 Nos. | Species such as Neem, Gulmohar, Karanj, Tapsi, Guava, Tamarind, Hunge, are planted. |
| 6f | Any other method of rehabilitation | Nil | Nil | |

| | | | |
|----|--|---|--|
| 6g | Cost incurred on watch and care during the year | | about 3.20 Lakhs |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | 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 |
| 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) | Regular Environment Monitoring Proposed | Regular Environment Monitoring being carried out on periodic basis. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | Back-filling 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 | Captive use |

| | | | |
|----|--|----|---|
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | NA | NA |
| 7c | Different grade of mineral sorted out at mines. | NA | NA |
| 7d | Any beneficiation process at mines . | NA | NA |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | ROM mineral dispatches to Cement 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. |

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 | For afforestation purpose | For afforestation purpose | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | 1 No. waste dump | Nil | Generated below threshold value L/s material (<34% Cao) reported consumed with high grade L/s material by blending. Intercalated waste reported utilized for road work. |

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|----|---|----------|---|
| 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) | | Cumulative plantation and area covered : about 13020Nos. in Area-10.40 ha |
| 8g | Survival rate | - | About 85% |
| 8h | Water sprinkling on roads to control airborne dust | Proposed | Provided |
| 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 being Submitted AR Submitted for FY 2019-20 | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Manager/Mining engineer - 01 Geologist - 01 | Employed | |

| | | | | |
|----|---|---|---|--------------|
| 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 - 850 Survival rate - 85 % | No.of Plantation - 850 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 | ROM stock -Nil | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex.Mine price / Production cost - Rs.210.96 per ton | Ex.Mine price / Production cost - Rs.210.96 per ton | Captive mine |
| 9h | Scrutiny of Annual return on fixed assets | furnished | furnished | |
| 9k | Scrutiny of Annual return on mining machineries | List of Mining machinery /HEMM furnished | Deployed as given | |

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