

- 1.(a) Mine Name : Hebbal Limestone and Dolomite mine (M.L.No-2656)
 (b) Category : "A" OTF Mechanized.
 (c) Type of Working: Opencast Mine code: 38KAR26085
 (i) Name of the Inspecting Officer and ID No: K02, Kalmata.M.K.
 (ii) Designation: Senior Mining Geologist.
 (iii) Accompanying mine Official with Designation: Suresh B.Katti. Mine mate & Lessees son..
 (iv) Date of Inspection: 25.05.2017(F/N)
 (v) Previous inspection date: 12.03.2014 (MCDR)
 (vi) First opening date: 25.04.2011

PART-I: GENERAL INFORMATION

(d) Postal address of mine

| Address | FAX No | E-mail | Phone | Mobile No |
|---|--------|------------------------------|-------|------------|
| Hebbalvillage, Lokapur-Post, Mudhol-Tq and Bagalkot-District. | Nil | sandeepmineralslkp@gmail.com | Nil | 0906108363 |

| State | District | Taluka | Village | Post office | Pin Code | Police Station | Landmark |
|-----------|----------|--------|---------|-------------|----------|----------------|----------|
| Karnataka | Bagalkot | Mudhol | Hebbal | Lokapur | 587122 | Lokapur | |

2. Postal Address for correspondence, if different:

3. Lease details

| Lease Number | Lease area | Forest / Non-forest area | Period of lease | Date of Expiry | Status (Fresh Grant / renewal / deemed renewal) |
|--------------|------------|--------------------------|-----------------|---|---|
| M.L.No-2656 | 4.86ha | Non-forest | | 04.01.2061 As per Amended MMDR Act-2015. | Fresh grant |

4. Mineral worked

| Mineral worked | Main mineral | Associated mineral | New mineral discovered | |
|----------------|--------------|--------------------|------------------------|--|
| Limestone | Limestone | Dolomite | NA | |

5A. Name and Address of the Lessee:

| Name and Address | FAX No | E-mail | Phone | Mobile |
|---|--------|------------------------------|-------|------------|
| Shri Bheemappa D.Katti, Venkateshwar Nagar, At & Post-Lokapur, Mudhol-Tq, Bagalkot-Dist-587122. | Nil | sandeepmineralslkp@gmail.com | ---- | 0906108363 |

5B. Name and address of Owner:

| Name and Address of Owner | Date of nomination | FAX No | E-mail | Phone | Mobile |
|---------------------------|--------------------|--------|--------|-------|--------|
| NA | NA | NA | NA | NA | NA |

5C. Name and address of Agent:

| Name and Address of Agent | Date of appointment | FAX No | E-mail | Phone | Mobile |
|---------------------------|---------------------|--------|--------|-------|--------|
| Nil | Nil | Nil | Nil | Nil | Nil |

5D. Name and address of Mining Engineer:

| Name and Address of Mining engineer (Full time/part time- then No of mines covered) | Date of appointment | Qualification and experience in years | FAX No | E-mail | Phone | Mobile |
|---|---------------------|---------------------------------------|--------|--------|-------|--------|
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|--|-----|-----|-----|-----|-----|-----|
| | Nil | Nil | Nil | Nil | Nil | Nil |
|--|-----|-----|-----|-----|-----|-----|

5E. Name and address of Geologist:

| Name and Address of Geologist | Date of appointment | Qualification and experience in years | FAX No | E-mail | Phone | Mobile |
|-------------------------------|---------------------|---------------------------------------|--------|--------|-------|--------|
| Nil | Nil | Nil | Nil | Nil | Nil | Nil |

6. Letter Number and Date of approval of Mining Plan and Scheme of Mining: **MSH/OTF-Mech-107(KNT)/GOA/2016-17, dated:08.08.2016.**

1. Details about Average employment:

Maximum number of persons employed on any day during the year: 2015-16

| Employment category | DIRECT /CONTRACT | No of employment | Av. yearly working days |
|---------------------|------------------|------------------|-------------------------|
| Managerial | Nil | Nil | Nil |
| Supervisory | DIRECT | 01 | 284 |
| Workers | CONTRACT | 0 | 0 |
| Ministrial | Nil | Nil | Nil |
| Plant | Nil | Nil | Nil |
| Others | | 03 | 284 |

2. Community Development Plan (in and around the mines): Proposed action and expenditure towards socio-economic development.

| Action during the year | Proposed | Expenditure in Rs. Lakhs for previous year Incurred | Proposed | Expenditure in Rs. Lakhs for current year Incurred | Remarks |
|------------------------|----------|---|----------|--|--|
| Health | Nil | Nil | Nil | Nil | |
| Housing | Nil | Nil | Nil | Nil | About Rs, 50,000 was given for temple repair and jatra, about Rs-20,000 was given for school repair and about Rs-25000 was utilized for water supply to nearby villages. |
| Medical facility | Nil | Nil | Nil | Nil | |
| Safety | Nil | Nil | Nil | Nil | |
| Sanitation | Nil | Nil | Nil | Nil | |
| Water supply | Nil | 0.25 | Nil | Nil | |
| Communication | Nil | Nil | Nil | Nil | |
| Electricity | Nil | Nil | Nil | Nil | |
| Public transport | Nil | Nil | Nil | Nil | |
| Roads | Nil | Nil | Nil | Nil | |
| Employment | Nil | Nil | Nil | Nil | |
| Environment management | Nil | Nil | Nil | Nil | |
| Others | Nil | 0.70 | Nil | Nil | |
| Recreation | Nil | 0.15 | Nil | Nil | |
| Sports activities | Nil | Nil | Nil | Nil | |
| Training | Nil | Nil | Nil | Nil | |

| PART-II | | | | |
|----------------------|---|--|--|---|
| Exploration : | | | | |
| Sl.No. | Item | Proposals | Actual Work | Remarks |
| 1a | Backlog of previous year | No exploration was proposed in the year 2016-17. | No exploration has been carried out in the year 2016-17. | |
| 1b | Exploration over lease area for geological axis 1 or 2 | Nil | Nil | Most of the area is explored under G-1 level of exploration. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No exploration was proposed in the year 2016-17. | Nil. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil | Lessee has drilled 6 coreholes and most of the area is explored under G-1 level of exploration. |
| 1e | Balance reserves as on 01/04/2017 | | Proved reserves(111)-600200 tons, Pre-feasibility Resources (221)- 401000 tons, Inferred Resources(333)-558000 tons. | |
| 1f | General remarks of inspecting officers on geology, exploration etc. | | Most of the area is covered under G-1 level of exploration and lessee has proposed three boreholes in the year 2017-18 to cover remaining area under G-1 level of exploration. | |
| Development : | | | | |
| Sl.No. | Item | Proposals | Actual Work | Remarks |
| 2a | Location of development w.r.t. lease area | In the year 2016-17 it was proposed work between co-ordinates N-1789850 to N-1789955 and E-534720 to 534815. | Working has been carried out as per the proposal and bench height was not maintained properly. | Lessee was advised to maintain the bench height as per the proposal. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule-15) | It was proposed to develop two benches in the ore. | Benches were made as per the proposal. | |

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|----|--|--------|--|--|
| 2c | Stripping ratio of ore to OB ratio | 1:0.10 | 1:0.05 | Rejection was less than the proposal and recovery of ore was more. |
| 2d | Quantity of topsoil generation in m ³ | 0 | 100 | |
| 2e | Quantity of overburden generation in m ³ | 2890 | 1750 | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc. | | Working has been carried out as per the proposal and bench height was not maintained properly and lessee was suggested to maintain the bench height as per the proposal. | |

Exploitation :

| Sl.N o. | Item | Proposals | Actual Work | Remarks |
|---------|---|---|--|---------|
| 3a | Number of pit proposed for production | one | one | |
| 3b | Quantity of ROM mineral production proposed | It was proposed to produce 65000 ton of limestone in the year 2016-17 | Lessee has produced 64800 ton of limestone in the year 2016-17 | |
| 3c | Recovery of saleable / usable mineral from ROM production | 90% | 95% | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Threshold value for limestone karnataka is Cao minimum 35% Cao. | Threshold value for limestone of Karnataka is Cao minimum 35% . The ore which is produced is above the threshold value and saleable. | |
| 3f | Quantity of subgrade mineral generation. | Nil | Nil | |
| 3g | Grade of subgrade mineral generation. | Nil | Nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | | Lessee is doing size wise segregation manually. | |
| 3i | Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects | Nil | Nil | |
| 3j | Provision of drilling and blasting in mineral benches | Drilling by jackhammer and blasting by using slurry explosive. | Lessee is doing drilling and blasting as per the proposals. | |
| 3k | Provision of mining machineries in mineral benches | Volvo 220 Excavator. | Lessee is using Hitachi PC-71 for both mining and loading. | |

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| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 3 mtr bench height is proposed. | Benches were made as per the proposal. | Lessee was advised to maintain the bench height as per the proposal. |
| 3m | Total area covered under excavation / pits | 0.56Ha, in the year 2016-17. | working has been carried out as per the proposal. | Total broken up area as an date is approximately 1.2 to 1.5 ha (for limestone) . |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.10 | 1:0.05 | Rejection was less than the proposal and recovery of ore was more. |
| 3o | Total area put in use under different heads at the end of year | | Mining; 2.00 ha (including dolomite pit), 0.18ha waste/topsoil,roads 0.12ha. | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2016-17- 65000 tons, 2015-16-65000 tons ,2014-15-65000 tons, 2013-14-65000 tons 2012-13-7778 tons | 2016-17- 64800 tons, 2015-16-64765 tons, 2014-15-7360 tons, 2013-14-6900 tons 2012-13-8499 tons. | |
| 3q | General remarks of inspecting officers on method of mining etc. | | The working has been carried out as per the proposals and benches were not made as per the proposals so lessee has advised to maintain the benches as per the proposals. | |

Solid Waste Management - Dumping :

| Sl.No. | Item | Proposals | Actual Work | Remarks |
|--------|---|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33) | It was proposed to utilize major part of the waste for road maintenance. And no proposal given for topsoil. | Waste was utilized for maintenance of road and some quantity utilized for making bund in boundary line. Topsoil was stacked separately. | |
| 4b | Location of topsoil, OB and mineral reject dumps | No proposal was given for storage of topsoil and mineral reject and it was proposed to use major part of the OB for road maintenance and some quantity to be dumped in the North-eastern part of the lease area near BP-B. | Waste was utilized for maintenance of road and some quantity utilized for making bund in boundary line. Topsoil was stacked separately in the 7.5 mtr safety zone of Northern part of the lease area.. | |

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|----|--|----------------------------|--|--|
| 4c | Number of dumps within lease area and outside of lease area | One within the lease area. | No waste dump formed. The waste generated was utilized for making roads and for making bunds in the lease boundary. | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside the UPL | No dump was formed. | |
| 4e | Number of active and alive dumps. | 1 | nil | waste was utilized for maintenance of road and making bunds. |
| 4f | Number of dead dumps. | Nil | Nil | waste was utilized for maintenance of road and making bunds. |
| 4g | Number of dumps established. | 1 | Nil | |
| 4h | Whether retaining wall or garland drain all along dumps are there. | Nil | Nil | |
| 4i | Length of retaining wall or garland drain all along dumps. | Nil | Nil | |
| 4j | Number of settling ponds | Nil | Nil | |
| 4k | Specific comments of inspecting officers on waste dump management. | | Topsoil was stacked separately and same will be utilized for plantation and waste generated was utilized for making roads and making bund in the lease boundary. | |

Solid Waste Management - Backfilling :

| Sl.No. | Item | Proposals | Actual Work | Remarks |
|--------|--|-----------|--|---|
| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling | NA | NA | working has been not reached to a proved depth. |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined 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. | | The mining is not reached to a proved depth and hence no proposals were made for reclamation/rehabilitation. | |

Progressive Mine Closure Plan :

| Sl.No. | Item | Proposals | Actual Work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|--|-------|--|--|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 26(2) | | Annual report on PMCP is not submitted for the year 2015-16. | Violation is pointed out for the same under Rule 26(2) of MCDR 2017. |
| 6b | Area available for rehabilitation (ha) | Nil | Nil | |
| 6c | Afforestation done (ha) | 0.037 | 0.06 | Plantation was made as per the proposal in the 7.5mtr safety zone. |
| 6d | No. of saplings planted during the year | 50 | 200 | plantation was made more than the proposal. |
| 6e | Cumulative no. of plants | Nil | Nil | |
| 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 (LxBxD) | 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 (ii) Method of rehabilitation | Nil | Nil | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | | Lessee is regularly monitoring ambient air quality, water quality and all are found within permissible limits. | |

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|----|---|--|--|--|
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | Since mining is not reached upto the proved depth no reclamation and rehabilitation proposals were made in the present plan period. Plantation was made more than the proposal and also maintaining by regular monitoring. | |
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Mineral Conservation :

| Sl.N o. | Item | Proposals | Actual Work | Remarks |
|---------|--|-----------|---|---------|
| 7a | ROM mineral dispatch or gradewise sorting within lease area | | 62899 tons ore is shown as despatch in the annual returns submitted for the year 2015-16. | |
| 7b | Method of gradewise mineral sorting i.e. manual or mechanical | | Manual | |
| 7c | Different grade of mineral sorted out at mines | Nil | Nil | |
| 7d | Any beneficiation process at mines | Nil | Nil | |
| 7e | General remarks of inspecting officers on mineral conservation and beneficiation issues. | | Lessee is not doing any beneficiation. Sizing will be done manually. | |

Environment :

| Sl.N o. | Item | Proposals | Actual Work | Remarks |
|---------|--|--|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Nil | About two hundred tons of topsoil was removed and some quantity was utilized for plantation and remaining was stacked separately in the 7.5mtr safetyzone. | |
| 8b | Concurrent use or storage of topsoil | | About two hundred tons of topsoil was removed and some quantity was utilized for plantation and remaining was stacked separately in the 7.5mtr safetyzone. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Major part of the waste was proposed to utilize for maintenance of Road and remaining was propose to stack in the nort eastern part of the lease area. | The waste generated was utilized for making roads and putting bund in the lease boundary. | |

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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 land affected by mining operations (pits, dumps etc.) | Nil | Nil | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | | Lessee has planted about 400 plants in the lease area. | Lessee has planted more than the proposal. |
| 8g | Survival rate | | 65-70% | |
| 8h | Water sprinkling on roads to control airborne dust | Nil | Nil | |
| 8i | General remarks of inspecting officers on aesthetic beauty in and around mine areas. | | Benches were not maintained as per the proposal and less was advised to maintain the benches as per the proposal. Plantation more than the proposal. Topsoil was stacked separately for future plantation purpose. | |

Compliance of Rule 45 :

| Sl.No. | Item | Proposals | Actual Work | Remarks |
|--------|---|---|---|--|
| 9a | Status of submission of monthly and annual returns | | Lessee is regularly submitting monthly and annual returns within time. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | In the annual returns submitted for the year 2015-16 Geologist is shown as nil and C B Mali is shown as mining engineer. | No Mining engineer and geologist are appointed by the lessee. | Violation is pointed out for the same. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | In the annual returns submitted for the year 2015-16 the land use details were mentioned as area under mining- 2.005ha, for dump 0.15ha and for road and others- 0.124ha. | The area mentioned under different headings are almost matching. | |
| 9d | Scrutiny of Annual return on afforestation | 200 plantation was shown in the year 2015-16. | Plantation was made as per the proposal. | |
| 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 | About 5126 tons ore ROM stock was shown in the year 2015-16. | Based on the production and despatch the remaining stock was almost tallying. | Mineral stack was made in the southern part of the lease area. |

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|----|--|---|---|--|
| 9g | Scrutiny of Annual return on Sale value, Ex Mine price and production cost | Sale value was shown Rs, 236/ton for Bagalkot cement industries, rs, 209/ton for Dalmia cements and rs, 246/ton for keshava cements. Exmine price is shown as 232 Rs and cost of production Rs-170/tos. | Data given in the annual returns is almost tallying. | |
| 9h | Scrutiny of Annual return on fixed assets | | Rs 9800000 lakh is shown as value of fixed assets. | |
| 9k | Scrutiny of Annual return on mining machineries | Air compressor | In the year 2016-17 lessee is also using Hitach PC-71 for mining. | |

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

Violation observed.

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|----------------|------------|
| Rule No | Issued on |
| 26(2) | 05.06.2017 |
| 55(3)(iii)(iv) | 05.06.2017 |
| 67 | 05.06.2017 |

Date:-

Kalmata.M.K.
Senior Mining Geologist