

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/395/BNG

Mine code : 30KAR03104

- (i) Name of the Inspecting : **257**) **Prashant S Hegde**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Amartaluri V. Rao, Mines Manager and Anil N.L. G
Official with
Designation
- (iv) Date of Inspection : 03/02/2020
- (v) Prev.inspection date : 28/10/2010

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DHARMAPURI**
- (b) **Registration NO.** : **IBM/178/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **RAMGAD**
- Taluka : **SANDUR**
- Post office : **SANDUR**
- Pin Code : **583119**
- FAX No. : **08395-260676**
- E-mail : **vescosdr@yahoo.com**
- Phone : **08395-260121**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **01/01/1995**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S.VEERABHADRAPPA SANGAPPA & COMPANY**
2-138, BELLARY ROAD,
SANDUR - 583119
3. (a) **Lease Number** : **KAR1204**
- (b) **Lease area** : **51**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **16/02/2021**
4. **Mineral worked** : **IRON ORE** **Main**

5. Name and Address of the

Lessee : VEERABHADRAPPA SANGAPPA & COMPANY
 # 2/138, BELLARY ROAD,
 HOSPET, BELLARY KARNATAKA
 Phone:08395-260120
 FAX :08395-260676

Owner : K.S.Nagaraj, Mang. Partner of M/s VESCO
 VESCO House, 2/138 Ballari
 Road, Sandur BELLARY
 KARNATAKA
 Phone: 08395-260120
 FAX : 08395-260676

Geologist
 Name : ANIL N. L., Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 01/03/2013
 Termination date

Manager
 Name : Amartaluri V. Rao
 Qualification : Dip. in Mining, Ist FCMM
 Appointment/ : 15/09/2009
 Termination date

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|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 20/03/1991 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 05/06/1997 |
| | | Mining Scheme rule 12 MCDR1988 | 08/04/2002 |
| | | Renewal under rule 24 MCR1960 | 24/05/2013 |
| | | MP modif under MCR 1960 | 16/09/2015 |
| | | MP review under 17(1) MCR 2016 | 10/11/2016 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|-----------|--|---|
| 1a | Backlog of previous year | NIL | NIL | NIL |
| 1b | Exploration over lease area for geological axis 1 or 2 | NIL | G-1 (13.85 Ha) & G-2 1.65 Ha) : 15.5 Ha | Entire potentially mineralised area of 15.5 Ha covered under G1-/G-2. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NIL | NIL | NIL |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL | NIL | Entire potentially mineralised area of 15.5 Ha covered laterally under G1-/G-2. No exploration proposal in approved RMP dated 10/11/2016. |
| 1e | Balance reserve as on 01/04/20 | ----- | 8.35 million tonnes (+45 % Fe Iron ore) 1.58 million tonnes (BHQ/Siliceous Ore 35 to 45 Fe) | Based on approved RMP dated 10/11/2016. |
| 1f | General remarks of inspecting officers on geology, exploration etc | ----- | ----- | 56 nos of core borholes with 2694 total meterage drilled so far. Entire potentially mineralised area of 15.5 Ha covered laterally under G1-/G-2. No exploration proposals in approved RMP dated 10/11/2016. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|-------------|-----------------------------------|
| 2a | Location of development w.r.t.lease area | N-1666510 to N-1666770 & E -662020 to 662298 (Section 33' to 55 ') | NIL | Non-working mine since 29/7/2011. |

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|----|---|---|-------|--|
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No topsoil: separate benches for OB and minerals (three mineral benches operation during year 2018-19). | NIL | Non-working. |
| 2c | Stripping ratio or ore to OB ratio | 1: 0.21 | NIL | Non-working and cum. data. |
| 2d | Quantity of topsoil generation in m3 | NIL | NIL | NIL |
| 2e | Quantity of overburden generation in m3 | 39,152 | NIL | NW. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | ----- | ----- | Mining Operation was stopped since 29/7/2011 as per Hon'ble Supreme Court order. Execution of deemed extension of supplementary ML deed (period upto 18/10/2042) pending with state Govt. due to pending forest clearance. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------------|-------------|--|
| 3a | Number of pit proposed for production | One nos | NIL | Single pit having dimension of 977mX 120m X 65m; Non-working mine. |
| 3b | Quantity of ROM mineral production proposed | 0.46 million tonnes | NIL | Non-working (NW). |
| 3c | Recovery of sailable/usable mineral from ROM production | 95 % | NIL | NW |
| 3d | Quantity of mineral reject generation | NIL | NIL | NIL |

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|----|--|--|--|------------|
| 3e | Grade of mineral rejects generation and threshold value declared. | NIL | NIL | NIL |
| 3f | Quantity of sub grade mineral generation. | Separate dumping of 33,258 tonnes of BHQ (with 35 to 45 % Fe) for future use during year 2018-19 | NIL | NW |
| 3g | Grade of sub grade mineral generation | NA | NA | NIL |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised method | NIL | NIL |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No such proposals | NIL | NIL |
| 3j | Provision of drilling and blasting in mineral benches | Blasting for 20 % of production only. 7.5 m depth blast-hole using Wagon drill. | NIL | NW. |
| 3k | Provision of mining machineries in mineral benches | Excavators and dumpers. | NIL | NW. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Height of bench 7 to 8 m and width more than height. | Height of bench 7 to 8 m and width more than height (8 to 12 m) | NIL |
| 3m | Total area covered under excavation/pits | 12.30 Ha | 12.30 Ha | NIL |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1: 0.21 | NIL | Cum. data. |

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|----|--|--|--|--|
| 3o | Total area put in use under different heads at the end of year | Pit: 12.30 Ha Dumps: 4.43 Ha | Pit: 12.30 Ha Dumps: 4.43 Ha | NIL |
| 3p | Production of ROM mineral during the last five year period as applicable | 2014-15: 0.46 million tonnes 2015-16: 0.46 million tonnes 2016-17: 0.46 million tonnes 2017-18: 0.46 million tonnes 2018-19: 0.46 million tonnes 2019-20: 0.46 million tonnes | 2014-15: NIL 2015-16: NIL 2016-17: NIL 2017-18: NIL 2018-19: NIL 2019-20: NIL (upto Dec 2019) | NIL |
| 3q | General remarks of inspecting officers on method of mining etc. | ----- | ----- | Mining Operation was stopped since 29/7/2011 as per Hon'ble Supreme Court order. Execution of deemed extension of supplementary ML deed (period upto 18/10/2042) pending with state Govt. due to pending forest clearance. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---------------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dumping of OB wastes and no top soil generation. | NIL | NW. |
| 4b | Location of topsoil, OB and mineral reject dumps | Dumping proposed on existing dump located at NW part of ML (N-1666958 to 1667254 and E-661452 to 661750) | NIL | NW. |
| 4c | Number of dumps within lease area and outside of lease area | One dump within ML. | One dump within ML. | NIL |

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|----|--|------------------|---|--|
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL | Outside UPL | NIL |
| 4e | Number of active and alive dumps. | One | One | NIL |
| 4f | Number of dead dumps. | NIL | NIL | NIL |
| 4g | Number of dumps established. | NIL | NIL | NIL |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Proposed. | Carried out as per R & R plan. | NIL |
| 4i | Length of Retaining wall or garland drain all along dumps | NIL during year. | NIL during year. Cum. 691 m of retaining wall and cum. 780 m of garland drain constructed so far. | NIL |
| 4j | Number of settling ponds | NIL during year. | NIL | 2 nos of settling ponds (SST) constructed so far. |
| 4k | Specific comments of inspecting officer on waste dump management | ----- | ----- | Waste dump management is being carried out as per approved RMP and R & R Plan. |

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 | Existing pit is not matured for back-filling as ore not exhausted. |
| 5b | Area under backfilling of mined out area | NIL | NIL | NIL |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | NIL | NIL | NIL |

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|----|--|-------------|-------|--|
| 5d | Total area fully reclaimed and rehabilitated | NIL | NIL | NIL |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | ----- -- | ----- | Existing pit is not matured for back-filling as ore not exhausted. |

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). | 1st July of every year | All relevant infomation submiited at inspection. | Yet to Execute deemed extension of supplementary ML deed. |
| 6b | Area available for rehabilitation (ha) . | NIL | NIL | NIL |
| 6c | afforestation done (ha). | NIL | NIL | NIL |
| 6d | No. of saplings planted during the year | NIL | NIL | No proposals on pit and dump. |
| 6e | Cumulative no .of plants | NIL | NIL | NIL |
| 6f | Any other method of rehabilitation | NIL | NIL | NIL |
| 6g | Cost incurred on watch and care during the year | NA | NA | Non-working mine. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | NIL | NIL | Existing pit is not matured for back-filling as ore not exhausted. |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NIL | NIL | NIL |

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|----|---|--|--|---|
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | NIL | NIL | NIL |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NIL | NIL | NIL |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | NIL | NIL | NIL |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | 500 nos | 832 nos | Ouside ML and Non-working mine. |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 0.2 Ha | 0.2 Ha | NIL |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Afforestation. | Afforestation. | NIL |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Season-wise environmental monitoring proposed. | Season-wise environmental monitoring carried out and all parameters were within limit. | NIL |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | ----- | ----- | Mine is not working presently. PMCP and R & R are being implemented satisfactory. |

Mineral Conservation:

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

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|----|--|---|-------|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grade-wise sorting within ML. | NIL | Non-working. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical | NIL | NW |
| 7c | Different grade of mineral sorted out at mines. | Grade-wise Lumps and fines sorting (85 % Fines & 15% Lumps) | NIL | NW. |
| 7d | Any beneficiation process at mines . | None except dry crushing and screening. | NIL | NW. |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | ----- | ----- | No mineral conservation aspect in this mine as +45 % Fe ore was proposed to be utilised. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|-------------|-----------------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NIL | NIL | No top soil generation proposals. |
| 8b | Concurrent use or storage of topsoil | NIL | NIL | NIL |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dumping of OB wastes on existing dump located at NW part of ML | NIL | Non-working mine. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | NIL | NIL | NIL |

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|----|---|------------------|------------------------------|---|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NIL | NIL | Existing pit is not matured for back-filling as ore not exhausted. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 500 nos saplings | 832 nos saplings outside ML. | Non-working Mine; As reported, the plantation of about cum of 17,200 saplings within ML and cum. 4,460 nos saplings outside ML carried out, so far. |
| 8g | Survival rate | NA | 50 % | As reported. |
| 8h | Water sprinkling on roads to control airborne dust | Proposed. | Nil as not working mine. | NIL |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | ----- -- | ----- | Aesthetic beauty in and around mines area observed to be satisfactory as lessee had implementing approved R &R Plan and PMCP proposals. |

Compliance of Rule 45:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|-------------------------------------|---------|
| 9a | Status of submission of Monthly and Annual returns | AR (2018-19) and MRs (upto Dec-2019) received at the inspection. | Submissions of MRs/ AR are regular. | NIL |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | MM: Shri AMARTALURI V RAO Geologist: Shri ANIL N.L | Actual also same. | |

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|----|---|--|---------------------------------------|-----|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Covered under current (O/C) Workings: 12.3 Ha Dumps: 4.43 Ha Other Purpose (Greenbelt etc): 1.53 Ha | Actual also same. | NIL |
| 9d | Scrutiny of Annual return on afforestation | 832 nos of saplings outside ML. | Actual also same. | NIL |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NIL | Actual also NIL | NIL |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM stock: NIL Lumps 62% to below 65% : 32.88 tones Lumps 65% and above: 19.2 tonnes Fines 65% and above: 2001.7 tonnes | Actual also same. | NIL |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of Production: NIL Ex-mine price : NA as no Despatches from mine head during year 2018-19 | Actual also same as non-working mine. | NIL |
| 9h | Scrutiny of Annual return on fixed assets | NIL | Non-working mine for since 2011 | NIL |
| 9k | Scrutiny of Annual return on mining machineries | NIL | Actual also same as non-working mine. | NIL |

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 :

(Prashant S Hegde)

Indian Bureau of Mines