

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

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/TMK/FE/26/BNG

**Mine code :** 30KAR19026

- (i) Name of the Inspecting : **257** ) **Prashant S Hegde**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri K.RAMANI, DGM (MINES) and Shri G.R. Kulkarni, Ge  
Official with  
Designation
- (iv) Date of Inspection : 13/03/2020
- (v) Prev.inspection date : 12/03/2011

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SONDENAHALLI ML 2175**
- (b) **Registration NO.** : **IBM/28/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **TUMKUR**
- Village : **SONDENAHALLI**
- Taluka : **C.N.HALLI**
- Post office : **SONDENAHALLI**
- Pin Code :
- FAX No. : **080-25593065**
- E-mail : **cnhtmlpl@vmsbgoa.com**
- Phone : **080-25594970,**
- (f) **Police Station** : **C.N.HALLI**
- (g) **First opening date** : **11/11/2093**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **M/s TUMKUR MINERALS P LTD**  
**correspondance** **RAMANASHREE CAMBERS , 102, Ist FLOOR, # 37,**  
**LADY CURZON ROAD, BANGALORE. 560001.**
3. (a) **Lease Number** : **KAR0497**
- (b) **Lease area** : **64.74**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **10/11/2013**
4. **Mineral worked** : **IRON ORE** **Main**
- CLAY (OTHERS)** **Associated**
- MANGANESE ORE** **Associated**

## 5. Name and Address of the

Lessee : TUMKUR MINERALS PVT LTD  
 RAMANASHREE CAMBERS , 102,  
 Ist FLOOR, # 37, LADY  
 CURZON ROAD, BANGALORE.  
 TUMKUR KARNATAKA  
 Phone:080-25594970  
 FAX :080-25593065

Owner : S.V. Salgaocar, N. Owner of Tumkur Minerals P. Ltd  
 Salgaocar House, Box. no-14  
 F1, Gomes Road, Vasco da  
 Gama-403802 SOUTH GOA GOA  
 Phone: 0832-251211  
 FAX :

Mining Engineer  
 Name : Sudheera Naik S, Full Time  
 Qualification : BE (Mining) with 2nd Class MM  
 Appointment/ : 04/07/2008  
 Termination date

Geologist  
 Name : G R Kulkarni, Full Time  
 Qualification : M.Sc (Mineral Exploration)  
 Appointment/ : 18/06/2013  
 Termination date

Manager  
 Name : K Ramani  
 Qualification : BE Mining and FCMM  
 Appointment/ : 01/03/2013  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 17/12/1990  
 Existing rule 11 MCDR1988 20/07/2004  
 Mining Scheme rule 12 MCDR1988 17/08/2009  
 Renewal under rule 24 MCR1960 01/01/2014  
 MP review under 17(1) MCR 2016 23/04/2018

## 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	G1: Around 8 Ha in reef and 16.6 Ha in Float area	Entire mineralised area already covered under G-1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	No exploration during year 2018-19 and 2019-20.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire mineralised area already covered under G-1 level of exploration. However, 4 nos DTH boreholes were proposed in float ore area during 2021-22 to confirm depth continuity if any as per last approved RMP dated 23/04/18.
1e	Balance reserve as on 01/04/20	-----	6.977 Million tonnes (45 to 65 % Fe)	Based on last approved RMP dated 23/04/18.
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	Entire mineralised area already covered under G-1 level of exploration. Lessee had drilled 45 nos of Core BHs with 2203 total meterage and carried out 61 nos of trial pits so far.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	North side ( E-683870 to 683940 and N-1477630 to 1477730 ) and south side ( E-683840 to 683930 and N-1477260 to 1477400) of existing pit.	NIL	Non-working (NW) mine.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation; Separate benches for OB and mineral.	No top soil generation; Separate benches for OB and mineral.	NIL
2c	Stripping ratio or ore to OB ratio	1: 3.21	NIL as non-working.	Cum. data and mineral reject included in wastes for ratio calculation as per approved RMP.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	32,400	NIL	NW.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Corner BPs are well maintained at the time of inspection. Mining Operation was stopped since 26/8/2011 as per Hon'ble Supreme Court order/ban. Lessees had obtained all statutory clearances except pending execution of mining lease deed upto 10/11/2043 as per the MM (D&R) Amendment Act, 2015 at DMG.

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**Exploitation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	One	NIL	Non-working.
3b	Quantity of ROM mineral production proposed	60,000 tonnes	NIL	NW.
3c	Recovery of sailable/usable mineral from ROM production	100 %	Non-working.	NIL.
3d	Quantity of mineral reject generation	92,600 tonnes	NIL	NW.
3e	Grade of mineral rejects generation and threshold value declared.	45 to 55 % Fe grade ore and separate stocking proposed as no market.	NIL	As per approved RMP.
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	NIL	NW.
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	No drilling and blasting proposal as soft formation. However, Ripper dozer will be deployed for breaking of hard overlying lateritic lumpy formation.	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	Bench height of 8 m and 10-12 m width proposed.	Maintained as per the proposals/existing.	NIL
3m	Total area covered under excavation/pits	5.85 Ha	5.85 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 3.21	NIL as non-working.	Cum. data and mineral reject included in wastes for ratio calculation as per approved RMP.
3o	Total area put in use under different heads at the end of year	Pit: 5.85 Ha Dumps: 6.16 Ha Road and Infra. : 1.36 Ha	Pit: 5.85 Ha Dumps: 6.16 Ha Road and Infra. : 1.36 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 60,000 tonnes 2015-16: 60,000 tonnes 2016-17: 60,000 tonnes 2017-18: 60,000 tonnes 2018-19: 60,000 tonnes 2019-20: 60,000 tonnes	2014-15: Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil 2018-19: Nil 2019-20: Nil (up to Feb-2020)	NW.
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Mining Operation was stopped since 26/8/2011 as per Hon'ble Supreme Court order/ban. Lessees had obtained all statutory clearances except pending execution of mining lease deed upto 10/11/2043 at state DMG.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil generation; Separate dumping of OB and mineral reject.	NIL	NW.
4b	Location of topsoil, OB and mineral reject dumps	1) Waste OB dumping proposed on existing dump located at western part of ML.(N 1477790 to N 1477860, E 683870 to E 683940) 2)Un-salable ore/mineral reject of +45-55% Fe will be stacked separately in the temporary earmarked stack area (Sub Grade ore N 1477435 to N 1477567, E 684050 to E 684185 and Laterite lumpy ore N 1477243 to N 1477366, E 684258 to E 684412).	NIL	NW.
4c	Number of dumps within lease area and outside of lease area	One within ML (Part encroached outside ML as per CEC survey).	One within ML (Part encroached outside ML as per CEC survey).	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Located outside UPL.	Located 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 as per R & R Plan	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.	Retaining wall/ Garland drain of Cum. 225 m within ML and cum. 345 m Outside ML as per R & R Plan.
4j	Number of settling ponds	NIL	NIL	Five nos 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	Pit is not matured for back-filling at present.
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	No top soil generation.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	No such proposal in approved RMP at present plan period as of Pit was not matured for back-filling. However, the backfilling will be carried out during conceptual 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).	1st July	Submitted on 9/5/2019.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	1 Ha	1 Ha	On dumps
6d	No. of saplings planted during the year	1,750 nos	3,500 nos	on Dump.
6e	Cumulative no .of plants	NA	33,264 nos so far.	On dump.
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	4.37 Lakhs.	4.37 Lakhs.	NIL
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 at present as ore not exhausted so far.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati 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	1750 nos	NIL	Non-working and plantation proposals were carried out on dump site.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.5 Ha	NIL	Non-working and plantation proposals were carried out on dump site.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforesation.	NIL	Non-working and plantation proposals were carried out on dump site.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise environmental monitoring proposed.	Season-wise environmental monitoring carried out and all parameters within the limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	Compliance of PMCP proposals found to be satisfactory. Moreover, mine is non-working.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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 using mobile screening plant (250 TPH)	NIL	NW.
7c	Different grade of mineral sorted out at mines.	+55 % Fe of different grade of lumps and fines.	NIL	NW.

7d	Any beneficiation process at mines	None except screening.	NIL	NW.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	No mineral conservation issues at present as non-working mine.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of generation of top-soil.	NIL	NIL
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 and mineral reject.	NIL	NW.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Dump management is being carried out as per R & R plan.
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 at present as ore not exhausted so far.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Total 3,500 nos saplings proposed (during year2018-19)	Total 3,500 nos saplings carried out at dump-site.	ML area falls under non-forest.
8g	Survival rate	70 %	80 %	NIL

8h	Water sprinkling on roads to control airborne dust	Proposed.	Nil as non-working.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----- -	-----	Aesthetic beauty in and around mines area found to be satisfactory as the lessee implementing approved RMP and R & R plan.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR 2018-19 and MRs upto Feb-2020 received	Submission of ARs and MRs are regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	MM: MR. K. RAMANI ME: MR. S. SUDHEERA NAIK Geo.: MR. G.R. KULKARNI	Actual also same.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings: 5.85 Ha Dump: 6.16 Ha Infra. and Raod: 1.36 Mineral storage: 4.49 Ha	Actual also same.	NIL
9d	Scrutiny of Annual return on afforestation	Within ML: 2000 nos Outside ML: 1500 nos	Actual also same.	On Dump site.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL during year	NIL during year	Physical closing balance as on Feb-2020: 90,772.60 tonnes. of Mineral reject / sub-grade stocks of earlier old production as per state DMG / lessee's records.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and grade ore stock: Nil	Actual also same.	However, Physical closing balance as on Feb-2020: 90,772.60 tonnes. of Mineral reject / sub-grade stocks of earlier old production of different grades as per state DMG / lessee's records. The same also reported in remarks column of MRs/ARs.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and cost of production: Nil	Actual also same as non-working mine.	NIL.
9h	Scrutiny of Annual return on fixed assets	Rs 15,46,422/- --	Actual also appear to be same.	Non-working.
9k	Scrutiny of Annual return on mining machineries	BACK HOE (1.400 CUM) : 1 nos OTHER HEM MACHINERY (250 tph of screening plant) : 1 nos	Actual also same.	NIL.

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**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