

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/375/BNG

**Mine code :** 30KAR03069

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI. NINGAPPA, MINES MANAGER & GEOLOGIST.  
Official with  
Designation
- (iv) Date of Inspection : 19/10/2015
- (v) Prev.inspection date : 06/02/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SUBBARAYANAHALLI**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : SUBBARAYANAHALLI
- Taluka : SANDUR
- Post office : NANDIHALLI
- Pin Code :
- FAX No. : 08395-260401
- E-mail :
- Phone : 08395-211030
- (f) **Police Station** :
- (g) **First opening date** : 01/01/1980
- (h) **Weekly day of rest** : SUN
2. **Address for** : M/S MML  
**correspondance** NO.39, M.G.ROAD,  
BANGALORE.
3. (a) **Lease Number** : KAR0199
- (b) **Lease area** : 80.93
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 12/04/2019
4. **Mineral worked** : IRON ORE Main

## 5. Name and Address of the

Lessee : MYSORE MINERALS LTD  
 TTMC BUILDING A BLOCK 5th  
 FLOOR BMTc SHANTINAGAR  
 BANGALORE KARNATAKA  
 Phone:080-25580373  
 FAX :080-25580372

Owner : MYSORE MINERALS LTD  
 NO.39, M.G.ROAD, BANGALORE,  
 BANGALORE KARNATAKA  
 Phone: 5580373,5580374  
 FAX : 080-5583172

Agent : C.SHANMUGAM  
 DY.GENERAL MANAGER, MML,  
 OPP.ST.JOSEPH CONVENT,  
 CHAMARAJANAGAR. MYSORE  
 KARNATAKA  
 Phone:  
 FAX :

## Mining Engineer

Name : C.DAYALAN,Full Time  
 Qualification : 1 CLASS MINE MANAGERS COMPETANCY DIP.IN  
 Appointment/ : 02/02/2004  
 Termination date

## Mining Engineer

Name : C.SHANMUGAN,Part Time  
 Qualification : BE IN MINING, M-TECH  
 Appointment/ : 01/12/2005  
 Termination date

## Geologist

Name : RAMESHAPPA,Full Time  
 Qualification :  
 Appointment/ :  
 Termination date

## Geologist

Name : SREEPAD.K.HEGDE,Full Time  
 Qualification : M.Sc.(GEOLOGY)  
 Appointment/ :  
 Termination date

## Manager

Name : DAYALAN YADAVA  
 Qualification : FCC  
 Appointment/ : 01/01/1999  
 Termination date

|                               |   |                                |            |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Existing rule 11 MCDR1988      | 22/12/1992 |
| Plan/Scheme of Mining         | : | Existing rule 11 MCDR1988      | 29/11/1995 |
|                               | : | Renewal under rule 22 MCR1960  | 20/12/2002 |
|                               | : | Mining Scheme rule 12 MCDR1988 | 23/04/2007 |
|                               | : | Modif.of approved Mining Plan  | 14/09/2010 |

Modif.of approved Mining Plan  
Modif.of approved Mining Plan

27/09/2013  
31/10/2014

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

| Sl.No. | Item                                                                | Proposals                                                                                        | Actual work                                                                                                   | Remarks                                                                                                   |
|--------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1a     | Backlog of previous year                                            | 22 bore holes were proposed for drilling during 2015-16 with 100 x 100m grids for 3000m metrage. | 22 bore holes were drilled as per the office records in form-K recd in this office. 3501metrage was reported. | 501metrage was drilled in addition to the proposals.                                                      |
| 1b     | Exploration over lease area for geological axis 1 or 2              | for complete area of ML area.                                                                    | covered under G1 & G2 axis for complete area                                                                  | Need to decide on the basis of the outcome of the development, additional exporation if any may be added. |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | M/s Soil Tech ( India) Pvt. Ltd.                                                                 | M/s Soil Tech ( India) Pvt. Ltd., Rs.134.78 lakhs 2014-15 & 2015-16 middle of the year.                       | undertaken by the above company.                                                                          |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | no proposal after 2015-16 as per the approved document last.                                     | since the proposed 2015-16 is completed in middle of the year.                                                | Possibly after the development, if required it will be undertaken.                                        |
| 1e     | Balance reserve as on 01/04/20                                      | Geological reserve=67.44 Million tonnes, Mineable reserves=63.19 million tonnes.                 | as per 1.10.2015, the reserve is 62.97 million tonnes.                                                        | This may be reassed at the bottom after undertstanding the deposits at depth & lateral extensions.        |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | whatever proposed is appropriate.                                                                | exploration undertaken in the lease area.                                                                     | Now the workings need to be studied for the deposits.                                                     |

## Development :

| Sl.No. | Item                                     | Propasals  | Actual work                                   | Remarks                                            |
|--------|------------------------------------------|------------|-----------------------------------------------|----------------------------------------------------|
| 2a     | Location of development w.r.t.lease area | NNW to SSE | as above the present workings are in progress | along the ore body the development is in progress. |

|    |                                                                                         |                                      |                                                                                     |                                                                                                                                                               |
|----|-----------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15)                          | yes separate benches proposals made. | yes separate benches were developed for top soil, OB & iron ore a per the deposits. | The deposits is not homogeneous type, area to area mine varies.                                                                                               |
| 2c | Stripping ratio or ore to OB ratio                                                      | 1:0.28                               | 1:0.31 up to september,2015.                                                        | the stripping ratio varies from top to bottom workings.                                                                                                       |
| 2e | Quantity of overburden generation in m3                                                 | 2014-15=312458m3<br>2015-16=245236m3 | 2014-15=306945m3<br>2015-16=68610m3 upto september.                                 | the generation of waste varies from place to place.                                                                                                           |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | proposed development is appropriate. | proposed development is not made as per the proposals.                              | The present development is continued in even in the previous programmed area. However, the boundary pillars were intact as per CCOM circular in the ML areas. |

### Exploitation:

| Sl.No. | Item                                                    | Propasals                                            | Actual work                                                                                                        | Remarks                                                                                                                                 |
|--------|---------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 3a     | Number of pit proposed for production                   | pit no.1( 1090m x 500x 192m                          | pit no.1( 1050m x 400x 148m                                                                                        | it is not a single pit, though it look like single pit, but it is different.                                                            |
| 3b     | Quantity of ROM mineral production proposed             | 2015-15=3 Million tonnes<br>2015-16=3 Million tonnes | 2015-15=2.7 Million tonnes<br>2015-16=0.216Million tonnes( upto sept,2015, but as on feb,2016 1.3 million tonnes.) | production reduced due to problem in getting tree cutting permission from the forest dept.                                              |
| 3c     | Recovery of sailable/usable mineral from ROM production | not proposed as such                                 | Referred with Ore to waste ratio as saleable.                                                                      | The waste separated is sent to waste dump and the ore extracted along with ROM is blended and utilized to the maximum, without wasting. |
| 3d     | Quantity of mineral reject generation                   | 190,476 tonnage for the 1st year 2015-16.            | Though there is a proposals, but reported nil in the data sheet.                                                   | whatever excavating is in the form of waste or intercalated waste, and not as rejects.                                                  |

|    |                                                                                                      |                                                                                    |                                                                                                                  |                                                                                                                     |
|----|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 3e | Grade of mineral rejects generation and threshold value declared.                                    | Thresh hold value is +45%Fe , the rejects grade is not mentioned.                  | as per the report in annual returns of 2014-15. it is given with 0-45% of rejects of 306,945t                    | The same is not reported in the data sheet.                                                                         |
| 3f | Quantity of sub grade mineral generation.                                                            | Not specified.                                                                     | Whatever the quantity of +45% fe to -50% fe are blended and along with ROM, it is used for consuming industries. | As such no generation of SG separately, whatever developed through ROM are blended and used, segregating the waste. |
| 3g | Grade of sub grade mineral generation                                                                | not specified.                                                                     | nil                                                                                                              | nil                                                                                                                 |
| 3h | Manual / Mechanised method adopted for segregating from ROM                                          | Not specified, however, it is mechanised.                                          | mechanised.                                                                                                      | mechanised.                                                                                                         |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | nil                                                                                | nil                                                                                                              | nil                                                                                                                 |
| 3j | Provision of drilling and blasting in mineral benches                                                | yes proposed for use of HEMM for drilling & blasting using explosives.             | same is in use at the mine workings at the time of visit.                                                        | yes the use of HEMM is in progress.                                                                                 |
| 3k | Provision of mining machineries in mineral benches                                                   | yes use of machineries is in the mineral benches.                                  | Yes use of machineries are provisioed at the working benches.                                                    | benches are developed with the provision of machineries.                                                            |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 8m height of benches & 10m width is proposed for OB & mineral suitable for mining. | At places the benches in minerals are not maintained as observed in the mine workings.                           | violation is pointed out for correction.                                                                            |
| 3m | Total area covered under excavation/pits                                                             | 38 ha area as on date                                                              | maintained within the area.                                                                                      | yes within the area proposed.                                                                                       |
| 3n | Ore to OB ratio for the pit/mine during the year.                                                    | 1:0.12                                                                             | within the proposed ore to waste is maintained.                                                                  | mantained.                                                                                                          |

|    |                                                                          |                                                                                                                                                 |                                                                                                                                     |                                                                                                    |
|----|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 3o | Total area put in use under different heads at the end of year           | 80.06 ha                                                                                                                                        | as above only                                                                                                                       | same.                                                                                              |
| 3p | Production of ROM mineral during the last five year period as applicable | 2011-12=1.66 Million tonnes<br>2012-13=1.68 Million tonnes<br>2013-14=0.41 Million tonnes<br>2014-15=3Million tonnes<br>2015-16=3Million tonnes | 2011-12=0.35Million tonnes<br>2012-13=nil<br>2013-14=0.21Million tonnes<br>2014-15=2.75Million tonnes<br>2015-16=0.26Million tonnes |                                                                                                    |
| 3q | General remarks of inspecting officers on method of mining etc.          | proposals given in the approved document to work along the strike length.                                                                       | In the proposed are for 2015-16 is not in operation due to forest cutting permission not obtained from the forest department.       | The lessee company pursuing the matter with the forest department to get the necessary permission. |

#### Solid Waste Management - Dumping:

| Sl.No. | Item                                                             | Propasals                                                                                         | Actual work                                                             | Remarks                                                                                                                     |
|--------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Top soil=No top soil.<br>OB=312458t<br>M.<br>reject=245236                                        | Top soil=No top soil.<br>OB=306945t<br>M. reject=68610 t upto sept.2015 | Separate dumping is practiced.                                                                                              |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | D1, D-5, D1A & D-1 & D1A<br>D5A                                                                   |                                                                         | THE LOCATION OF OB dumps are not shown at all for easy check & rejects notion is also given in the plan for easy reference, |
| 4c     | Number of dumps within lease area and outside of lease area      | 4 NOS. OF DUMPS within the lease area.                                                            | ONLY FOUR NOS. dumps were present within the ML area.                   | yes only four present in the ML area.                                                                                       |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)            | Dump D1, D5 are Outside the ultimate pit limit & dump D!A( Partial) & D5, D5A are within the UPL. | Dump-D1 & D5 are outside the UPL & dump-D1A, D5A are within the UPL.    | as per the old locations, but not seen in the present plate.                                                                |

|    |                                                                    |                                                 |                                                                       |                                                                            |
|----|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------|
| 4e | Number of active and alive dumps.                                  | D1, D1A & D-5 are active dumps.                 | D1, D1A & D-5 are active dumps.                                       | as above.                                                                  |
| 4f | Number of dead dumps.                                              | One D4 dump is dead.                            | same One D4 dump is dead.                                             | one dump only.                                                             |
| 4g | Number of dumps established.                                       | nil                                             | nil                                                                   | nil                                                                        |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | yes constructed.                                | constructed.                                                          | yes constructed.                                                           |
| 4i | Length of Retaining wall or garland drain all along dumps          | RW5=375m, RW6=159m, RW7=75m, RW8=120m, RW9=165m | RW5=202m, RW6=159m, RW7=75m, RW8=120m, RW9=nil                        | as per approved CEC plan it is progressing & 95% of the work is completed. |
| 4j | Number of settling ponds                                           | 5 nos.                                          | 5 nos.                                                                | as per the R & R approved plan.                                            |
| 4k | Specific comments of inspecting officer on waste dump management   | proposals made in the approved document.        | Dumps are carrying out, but not brought out in the updated documents. | Space constrains are there to stack and to protect it.                     |

#### 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. | no proposals as such | nil         | nil     |
| 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     |
| 5d     | Total area fully reclaimed and rehabilitated                                                  | nil                  | nil         | nil     |

|    |                                                                            |                                                |                               |                       |
|----|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------|-----------------------|
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | no proposals for back filling, since no scope. | yes still no area is matured, | yes nil back filling. |
|----|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------|-----------------------|

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).                               | yes submitted by the lessee company on 29/6/15       | Recd., by this officie.                                                             | yes recd.                                                          |
| 6b     | Area available for rehabilitation (ha) .                                                                   | no area available for rehabilitation in the ML area. | no rehabilitation work.                                                             | only in the encroached of 0.14 ha has been planted just like that. |
| 6c     | afforestation done (ha).                                                                                   | yes done on western side in the encroached area.     | yes done on western side in the encroached area, not given the nos. of plantations. | yes done plantations, numbers not given.                           |
| 6d     | No. of saplings planted during the year                                                                    | not reported.                                        | 1000 nos.                                                                           | as above.                                                          |
| 6e     | Cumulative no .of plants                                                                                   | no proposals.                                        | done plantations, figure not reported.                                              | 5000 nos.                                                          |
| 6f     | Any other method of rehabilitation                                                                         | nil                                                  | nil                                                                                 | execept back filling and plantations.                              |
| 6g     | Cost incurred on watch and care during the year                                                            | not proposed.                                        | incurring during regular watch & care.                                              | yes regular watch & care deployed and maintained.                  |
| 6h     | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | no proposals.                                        | nil                                                                                 | nil                                                                |
| 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)Afforestation on backfilled area         | no proposals.                                  | 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                                  | nil                                            | nil                                           | nil                          |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)                      | nil                                            | nil                                           | nil                          |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation                     | nil                                            | nil                                           | nil                          |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                        | regular monitoring proposals made              | work undertaken by the lessee company.        |                              |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.         | No major proposals made by the lessee company. | no work except environmental monitoring work. | carrying out in the ML area. |

---

Mineral Conservation:

---

| Sl.No. | Item                                                                                   | Propasals                                                    | Actual work                                                                                                                                                                                                    | Remarks                                                          |
|--------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | 3 million tonnes of ores.                                    | +45%fe to +65% fe of saleable ore.                                                                                                                                                                             | as above ore is dispatched.                                      |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | Mechanical method due to A(FM) category mine.                | mechanical method.                                                                                                                                                                                             | yes mech method is used due to HEMM usage.                       |
| 7c     | Different grade of mineral sorted out at mines.                                        | yes proposed for various grades of ores.                     | 45-50% Fe is of 5% Fe - non saleable.<br>50-55% Fe is of 10% saleable materiasl.<br>55-60% Fe is of 20% saleable materiasl.<br>60-65% Fe is of 40% saleable materiasl.<br>65% Fe is of 25% saleable materiasl. | as above                                                         |
| 7d     | Any beneficiation process at mines .                                                   | no wet processing, but dry process for crushing & screening. | no wet processing, but dry process for crushing & screening.                                                                                                                                                   | Only dry process through crushing & screening is adopted.        |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues | conservation proposals made in the approved documents.       | conservation is taken care, and also by stacking in the M1 area.                                                                                                                                               | yes conservation point is taken care in the mine by the company. |

#### Environment:

| Sl.No. | Item                                                                   | Propasals                                       | Actual work                                                                                          | Remarks                         |
|--------|------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)                  | No top soil proposals in the current proposals. | already broken area, the mining operation is in progress.                                            | nil segrgation, as no top soil. |
| 8b     | Concurrent use or storage of topsoil                                   | no generation of top soil & no proposals.       | nil                                                                                                  | nil                             |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | 6.74 ha is proposed for disposal in 4 places.   | D1, D1A, 1D5 & D5 in barren zone of which 2.43 ha already occupied. 0.5 ha proposed for plan period. | as above is followed.           |

|    |                                                                                                             |                                                      |                                                                  |                                                             |
|----|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------|
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | no proposals in the plan period.                     | nil                                                              | nil                                                         |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | no proposals.                                        | nil                                                              | nil                                                         |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | yes plantations were present already.                | No additional plantations in the forest area.                    | since it is already forest, no additional plantations done. |
| 8g | Survival rate                                                                                               | nil                                                  | natural growth in the forest area 50-605                         | as above.                                                   |
| 8h | Water sprinkling on roads to control airborne dust                                                          | yes proposed to control dust in the M1 area & roads. | yes made through water tanker to suppress the dust in the roads. | yes dust suppression is followed in the mine.               |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          | yes proposed in the document.                        | maintained to some extent only                                   | yes for some extent only.                                   |

---

Compliance of Rule 45:

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

---

|    |                                                                                               |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |
|----|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 9a | Status of submission of Monthly and Annual returns                                            | lessee company submitted Annual returns for the year 2014-15 through online.                | Regd Office: BMTC Shanthinagar, B'lore, 5. Director: Sri. M.Maheshwar Rao, I.A.S., 6. Agent & Manager Sri.Ningappa, 7. Ming Eng: Punaram Sinha, 9. Geologist: Rameshappa, Fixed Assets (in .Rs) 75871944, Total production (in Tonne) 2700725/-, OB removed (in Tonne) 306945, cumulative- 1739747, Proved Mineral Reserve -111- 20344527, Prob Mineral Reserve, - 121- 122 -42845544., Drilling 100x100 -2055m- 32 nos., Mineral Rejects-306945, Op stock-248204 t, clog stock-1405217t,-cost of prod-Rs.215/-, | the lessee furnished information pertaining to the year 2014-15. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Ming Eng: Punaram Sinha, Geologist: Rameshappa,                                             | Both were present in the mine during the inspections.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Regular engineer & geologist for the mine.                       |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | The land use pattern, for area under pits=38 ha, reclaimed area=nil, dumps= 2.25 ha         | same as given were observed in the mine during the inspections.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | carrying out the work as per the proposals.                      |
| 9d | Scrutiny of Annual return on afforestation                                                    | Number of trees planted during the year -1500 nos., with Survival rate in percentage 80.00. | plantations were present in the area as per the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | old encroached area, plantations were present.                   |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | Mineral Rejects generated with grades (tonnes), a. Quantity 306945, b. Grade 0-45           | observed in the field, the rejects materials stacking.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | not kept away from the waste dump.                               |

|    |                                                                             |                                                                                                                                                                                                                                                        |                                                                                                                                                                                  |
|----|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                    | Production and Opening stock is 248204t, closing stock of ROM ore at Mine-head ( IRON ORE (Hematite) ), Category Opening stock (in tonne) Production (in tonne), Closing stock (in tonne) (a) Open Cast Workings 248204.000, 2700725.000 , 1405217.000 | against the target , shortage of 299275t.                                                                                                                                        |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | 659578.74 t, of lumps & fines Rs. 1,957,513,409- -Rs. 215/t. Rs. 3000 to 3559/t low to high grade                                                                                                                                                      | For the five different companies from 60-+65%fe lumps & 60-65%Fe Fines All the materials sold through e-auction.                                                                 |
| 9h | Scrutiny of Annual return on fixed assets                                   | Value of Fixed Assets (in .Rs.) 75,871,944, in respect of the mine, beneficiation plant, mine work-shop, power and water installation)                                                                                                                 | The fixed asset given mainly on the mine, beneficiation plant, mine work-shop, power and water installation). The lessee submitted the details pertaining to the infrastructure. |

|    |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                          |
|----|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|
| 9k | Scrutiny of Annual return on mining machineries | Type of machinery Capacity of each unit No. of units Electrical/Non - Electrical (specify) Used in opencast/under ground (specify) SHOVEL (HYDRAULIC) 1.600 CUM 8 Non Electrical Opencast ROCK DRILL (NONELEC.) 110.000 MM 1 Non Electrical Opencast WHEEL LOADER 1.250 CUM 4 Non Electrical Opencast WATER TANKER 8000.000 LITRE 8 Non Electrical Opencast DOZER 200.000 HP 2 Non Electrical Opencast TIPPER 10.000 CUM 25 Non Electrical Opencast. | whatever the machines are in use were furnished by the lessee. | all the machines are is use at the mine. |
|----|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|

---

**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 |
| Rule 13(1)         | 13/04/2016 |               |                     |           |               |
| Rule 45(1)         | 13/04/2016 |               |                     |           |               |

**Date :****(C.PARAMESHWARAN)**

Indian Bureau of Mines