AGENDA ITEM FOR THE CONSENT FOR OPERATION COMMITTEE
MEETING TO BE HELD ON 17.08.2019
AT A.P. POLLUTION CONTROL BOARD, ZONAL OFFICE, KURNOOL.

CFO Agenda
Item No. 10

M/s Tirumala Granites, (6.10 Ha Black Granite Mine), Comp No.217 & 218 of Veerasettipalli B. Reserve Forest, Chittoor District.


II. The details of the mine as reported by the RO, Tirupati through inspection report dated 14.08.2019 are as follows:

1. 
   - **Applied through**: SDP
   - **Date of commissioning**: December, 2002.
   - **Orders issued by the Environment, Forests, Science & Technology (Section-II) Department vide Order Dt:06.07.2015.
   - **Date of Receipt of the CFO application at RO**: 27.07.2019
   - **Date of RO Inspection**: 13.08.2019
   - **CFO Validity status**: Obtained CFO which was expired on 30.06.2019 and applied for renewal of CFO of the Board.
   - **Date of Receipt of consent verification report at ZO**: 16.08.2019
   - **Total Project Cost**: Rs. 0.40 Crores
   - **Category of the industry**: Red - Haz
   - **Fee Details**: Amount paid: Rs. 8,000/- for 4 years for the Period up to 14.02.2023. As their quarry lease going to expire on 14.02.2023.

2. **Details of Raw Materials**:
   - **Sl. No.**
   - **Raw Materials**: Mining of Black granite - In an area of 6.10 Ha

3. **Details of Products**:
   - **Sl. No.**
   - **Products / Line of Activity**: Mining of Black Granite (Mine lease area – 6.10 Ha)
   - **Consented capacity as per CFO 19.12.2015**: 400 Cum.Mtrs/ Month
   - **Applied as per application**: 400 Cum.Mtrs/ Month

4. **Details of Water Consumption**:
   - Tankers from nearby villages
   - **Purpose**
   - **Dust Suppression**: 2.0 KLD
   - **Green Belt**: 0.8 KLD
   - **Domestic**: 1.2 KLD
   - **Total**: 4.0 KLD

5. **Waste Water Details**:
   - **Source**
   - **Domestic**: 0.3 KLD
   - **Total**: 0.3 KLD

6. **Treatment facilities**:
   - **Source**: Domestic
   - **Treatment facility**: Septic tank followed by soak pit

7. **ETP Details & Mode of Disposal**:
   - ***---***

8. **Details of Air Pollution**:
   - **Nil**

9. **Details of Solid Waste**:
   - **Name of the waste**: Over Burden (Top soil & rock waste)
   - **Quantity of waste**: 76490 M\(^3\)/ Year
   - **Disposal Option**: Dumping in their dump yard

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Condition</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The Project authority shall take steps to reduce water consumption to the extent possible and consumption shall not exceed the quantities mentioned below. Water is used for dust suppression, domestic purpose and greenbelt development only.</td>
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<tr>
<td></td>
<td>S. No</td>
<td>Purpose</td>
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<tr>
<td>1</td>
<td>1</td>
<td>Dust Suppression</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Green Belt</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Domestic</td>
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<tr>
<td></td>
<td>TOTAL</td>
<td></td>
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<td>2</td>
<td>The Project authority shall file the Water Cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month long with water meter readings. The industry shall remit water Cess as per the assessment orders as and when issued by Board. During the inspection the unit was directed to file water cess returns upto 30.06.2017. However, Board office, Vijayawada vide mail Dt.13.11.2017 directed the Regional offices to inform industries not to file the water cess returns from 01.07.2017 onwards as per New Taxation Law, 2017 (i.e. Goods &amp; Service Tax, 2017).</td>
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<td>3</td>
<td>The Project authority should comply with the National ambient air quality standards as per MoEF, GOI notification dated. 18.11.2009 along the premises of the factory as prescribed below. 3rd party analysis reports are enclosed for kind perusal.</td>
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<td></td>
<td>S. No</td>
<td>Parameters (PM&lt;sub&gt;10&lt;/sub&gt;)</td>
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<tr>
<td>1</td>
<td>1</td>
<td>Particulate Matter</td>
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<tr>
<td>2</td>
<td>2</td>
<td>Particulate Matter (PM&lt;sub&gt;2.5&lt;/sub&gt;)</td>
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<tr>
<td>3</td>
<td>3</td>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
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<tr>
<td>4</td>
<td>4</td>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
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<td></td>
<td>Noise Levels: Day time (6 AM to 10 PM)</td>
<td>75 dB (A)</td>
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<td>Night time (10 PM to 6 AM)</td>
<td>70 dB (A).</td>
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<td>4</td>
<td>The project authority shall comply with emissions limits for DG sets upto 800 KW as per the notification G.S.R.520 (E) dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R. 448 (E) dated 12.07.2004. under the environment (Protection) Second Amendment Rules, 2004. In case of DG Sets more than 800 KW shall comply with emission limits as per the Notification G.S.R. 489 (E) sated 09.07.2002 at serial No.96, under the Environment (Protection) Act, 1986</td>
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<td>5</td>
<td>The Project authority shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE/CFO of the Board.</td>
<td>Complied</td>
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<td>6</td>
<td>The Project authority shall carry out only semi-mechanized open casting mining and shall carryout Black Granite mine in an area of 6.10 Ha only. The blocks shall separate from mother rock by using jack hammer drilling and wedge cutting by wire saw. The separated blocks shall be dressed manually.</td>
<td>Complied</td>
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<td>7</td>
<td>The project authority shall not carry out any blasting operations.</td>
<td>Complied</td>
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<td>8</td>
<td>The project authority shall adopt wet drilling method and use pneumatic / hydraulic drilling machine with inbuilt dust extraction cum collection system to control dust emissions.</td>
<td>Complied</td>
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<td>9</td>
<td>Fugitive dust emissions from all the sources should be controlled regularly. The industry shall provide water spraying arrangement of haul roads, loading and unloading and at transfer points for dust suppressions. The unit has deployed water tanker for wetting of haul roads for control of fugitive emissions.</td>
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<td><strong>10</strong></td>
<td>The Project authority shall deploy of water tanker exclusively for water sprinkling in the main haulage roads for dust suppression.</td>
<td>Provided</td>
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<td><strong>11</strong></td>
<td>The project authority shall provide ambient air quality stations and submit the analysis reports to the Board regularly.</td>
<td>Not complied. However industry has submitted 3rd party analysis reports.</td>
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| **12** | The Project authority shall implement the following measures to reduce the air pollution during the transportation of mineral:-
- Roads shall be graded to mitigate the dust emission.
- Overfilling of tippers and consequent spillage on the roads shall be avoided. The trucks shall be covered with tarpaulin
- Water shall be sprinkled at regular interval on the main haul road and other service roads to suppress dust. | The unit has deployed water tanker for wetting of haul roads for control of fugitive emissions. |
| **13** | The Project authority shall implement the following measures to reduce the noise pollution
- The proper and regular maintenance of the vehicles and other equipment.
- Limiting time exposure of workers to the excessive noise, Worker employed shall be provided with protection equipment and ear muffs.
- Speed of the trucks entering or leaving the mine is to be limited to the moderate speed of 25 KMPH to prevent undue noise from empty trucks. | Complied |
| **14** | The Project authority shall take measures to comply with the provisions laid under Noise Pollution (Regulation and Control (Amendment) Rules, 2010; dt.11.01.2010 issued by the MoE&F, GOI to control noise to prescribed levels. | --- |
| **15** | The Project authority shall construct garland drain and siltation ponds of appropriate size for the working pit to arrest flow of silt and sediments. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintain properly. | Complied. |
| **16** | The top soil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose. | Complied |
| **17** | The overburden (top soil and rock waste) shall be dumped in the dump yard within the quarry lease area. under no circumstances, the project authority shall dump the overburden soil outside the quarry lease area. The Board is constrained to revoke the CFO issued by the Board in case overburden soil is dumped outside and also if complaints were received from the surroundings without any future notice. | Complied |
| **18** | The project authority shall adopt the following measures to control erosion of dumps
- Retention/toe walls shall be provided at the foot of the dumps
- Worked out slopes are to be stabilized by planning appropriate shrub/ grass species on the slopes.
- Garland drain around the dump for diversion of storm water. The Garland drain shall be routed through siltation pond of adequate size. | Retaining wall has provided |
| **19** | Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting. | --- |
| **20** | No change in mining technology working should be made without prior approval of the Board. No further expansion or modifications in the mine shall be carried out without prior approval from the Board. | **** |
The project authority shall develop green belt along the mine lease area with tall growing trees with wide leaf area. Provided 25 no of small plants at one side of the mine.

The project authority shall provide septic tank followed by soak pit for disposal of domestic effluents. Provided.

The project authority shall comply with all the directions issued by the Board from time to time.

Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attracts action under the provisions of relevant pollution control Acts.

The Board reserves it’s right to modify above conditions or stipulates any further conditions and to take action including revoke of this order in the interest of Environment Protection.

The conditions stipulated in this order are without prejudice to the rights and contentions of this Board in any Hon’ble Court of Law.

11. Inspection Officer Remarks:
   a. The site is located Comp No.217 & 218 of Veerasettipalli B. Reserve Forest, Chittoor District and the mine lease area is 6.10 Ha.
   c. It is a Semi mechanized Open-Cast Granite mining and obtained CFO of the Board vide order dated 19.12.2015 for the mining of Black Granite – 400 Cub.Mtrs/Month by using mine lease Area - 6.10 Ha. Now the industry applied CFO Renewal with same product and capacity of 400 Cub.Mtrs/Month and paid CFO fee Rs. 8,000/- for 4 years for the Period up to 14.02.2023 under Red-Haz category as their quarry lease going to expire on 14.02.2023.
   d. The project carrying the mining operations using wet drilling and wire saw cutting and lifting granite blocks using proclainers and compressors. Water is used for wet drilling and wire saw cutting, water spraying systems and for domestic purpose.
   e. The main source of air pollution is caused during movement of vehicles, loading and unloading. The unit has been wetting the roads and developing greenbelt for control of dust pollution.
   f. Regarding Solid waste the unit has to implement the proper dumping of Solid waste
   g. The unit has provided retaining wall/toe wall with the waste rock boulders around the dump yard. The unit has also constructed garland drain all along the side of the retaining wall followed by siltation pond.
   h. The industry planted about 25 Nos of plants along the haul road and mining area.

   a. The unit has also provided septic tank followed by soak pit to treat the sanitary effluents.

12. RO Remarks:
   Issuance of CFO of the Board may be examined.

13. Zonal Office Remarks:

   The attached inspection report forwarded by the EE, RO, Tirupati may be reviewed.

   The issue is placed before the CFO Committee for review and recommendations.