AGENDA ITEM FOR THE CONSENT FOR OPERATION COMMITTEE
MEETING TO BE HELD ON 09.10.2019
AT A.P. POLLUTION CONTROL BOARD, ZONAL OFFICE, KURNOOL.

CFO Agenda Item No. 6
Sri P. Muthammal, (1.0 Ha Black Granite mine), Sy.No. 120/P, Sivapuram (V), Peddamandyam (M), Chittoor District.

I. Sri P. Muthammal, (1.0 Ha Black Granite mine), Sy.No. 120/P, Sivapuram (V), Peddamandyam (M), Chittoor District has obtained CFO of the Board in the name of M/s. Vasundhara Granites vide order dt. 04.02.2015 to carry out mining of Black granite – 850 m³/annum in the mine lease area of 1.0 Ha. Now the mine has applied for renewal of CFO of the Board.

II. The details of the mine as reported by the RO, Tirupati through inspection report dated 28.09.2019 are as follows:

1. Applied through SDP
   Date of commissioning December, 2013
   Date of Receipt of the CFO application at RO 16.09.2019
   Date of RO Inspection 24.09.2019.
   CFO Validity status Obtained CFO and applied for renewal of CFO of the Board
   Date of Receipt of consent verification report at ZO 30.09.2019
   Total Project Cost Rs. 0.10 Crores
   Category of the industry Red - Haz

2. Details of Raw Materials:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Raw Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mining of Black granite - In an area of 1.0 Ha</td>
</tr>
</tbody>
</table>

3. Details of Products:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Products / Line of Activity</th>
<th>As per CFO Order dt: 04.02.2015</th>
<th>Applied (as per the application)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mining of Black Granite (Mine Lease Area 1.0 Ha)</td>
<td>850 Cum/Year</td>
<td>850 Cum/Year</td>
</tr>
</tbody>
</table>

4. Details of Water Consumption: Bore wells

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Quantity as per report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust suppression</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td>Gardening/Irrigation</td>
<td>0.5 KLD</td>
</tr>
<tr>
<td>Domestic</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>2.5 KLD</strong></td>
</tr>
</tbody>
</table>

5. Waste Water Details:

<table>
<thead>
<tr>
<th>Source</th>
<th>Quantity as per report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>0.5 KLD</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>0.5 KLD</strong></td>
</tr>
</tbody>
</table>

6. Treatment facilities:

<table>
<thead>
<tr>
<th>Source</th>
<th>Treatment facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>Septic tank followed by soak pit</td>
</tr>
</tbody>
</table>

7. ETP Details & Mode of Disposal: The industry has provided septic tank followed by soak pit for disposal of domestic effluents.

8. Details of Air Pollution: Nil

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Source of Pollution</th>
<th>Control equipment provided</th>
<th>Flow rate in m³/hr.</th>
<th>Stack height in Mts - above GL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>85 KVA DG Set</td>
<td>Silencers &amp; Mufflers</td>
<td>-</td>
<td>10 ft</td>
</tr>
</tbody>
</table>

9. Details of Solid Waste:

<table>
<thead>
<tr>
<th>Name of the waste</th>
<th>Quantity of waste</th>
<th>Disposal Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over Burden (Top soil &amp; rock waste)</td>
<td>6,400 Cum/Year</td>
<td>The waste is dumped within the earmarked quarry lease area.</td>
</tr>
</tbody>
</table>
10. **Compliance of the industry for Fresh CFO / Schedule – B conditions for renewal CFO**

Order No. CTR-607/APPCB/ZO-KNL/CFO&HWM/2015-1305, Dt: 04.02.2015 which was valid up to 30.11.2017.

<table>
<thead>
<tr>
<th>S. 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.</td>
<td>Applied for permitted quantity. However, water is used for dust suppression &amp; domestic purposes only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Purpose</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dust suppression</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td>2</td>
<td>Gardening / Irrigation</td>
<td>0.5 KLD</td>
</tr>
<tr>
<td>3</td>
<td>Domestic</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>2.5 KLD</strong></td>
</tr>
</tbody>
</table>

2. 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 along with water meter readings. The industry shall remit water Cess as per the assessment orders as and when issued by Board.

3. The Project authority should comply with the National ambient air quality standards as per MoEF, GOI notification dated. 18.11.2009 outside the mine lease area at the boundary of the mine, as prescribed below.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Parameters</th>
<th>Standards in µG/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Particulate Matter (PM10)</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>Particulate Matter (PM2.5)</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>SO2</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>NOx</td>
<td>80</td>
</tr>
</tbody>
</table>

Noise Levels:
- Day time (6 AM to 10 PM) - 75 dB (A)
- Night time (10 PM to 6 AM) - 70 dB (A).


5. The project authority shall not increase the mining capacity beyond the permitted capacity mentioned in this order, without obtaining CFE/CFO of the Board.

6. The project authority shall carry out only semi-mechanized open cast mining and shall carryout Black Granite mining in an area of 1.0 Ha only. The blocks shall be separated from mother rock by using jack hammer drilling and wedge cutting by wire saw. The separated blocks shall be dressed manually.

7. The project authority shall not carry out any blasting operations.

8. 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.

9. Fugitive dust emissions from all the sources should be controlled regularly. The project authority shall provide water spraying arrangement on haul roads, loading and unloading and at transfer points for dust suppressions.

10. The project authority shall deploy water tanker exclusively for water sprinkling in the main haulage roads for dust suppression.

11. The project authority shall provide ambient air quality stations and submit the analysis reports to the Board regularly.

<table>
<thead>
<tr>
<th>Industry has not provided any DG set in the premises</th>
<th>Provided water tanker exclusively for water sprinkling in the main haulage roads for dust suppression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not provided</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Measures</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 12. | The project authority shall implement the following measures to reduce the air pollution during the transportation of the mineral.  
* Roads shall be graded to mitigate the dust emissions.  
* 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 the dust. | Complied        |
| 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 25KMPH to prevent undue noise from empty trucks. | Complied        |
| 14. | The project authority shall take measures to comply with the provisions laid down under Noise pollution (Regulation and Control) Amendment Rules, 2010 dated 11.01.2010 issued by MoE&F, GoI to control the noise to the prescribed levels. | Complied        |
| 15. | The project authority shall construct garland drain and siltation ponds of appropriate size for the working pit to arrest the flow of silt and sediments. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc., The drains shall be regularly de-silted particularly after monsoon, and maintained properly. | The mining unit has provided garland drains and siltation ponds. |
| 16. | The topsoil, 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 further notice. | Complied        |
| 18. | The project authority shall adopt and maintain 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. | Industry has provided retention walls, worked out slopes and also garland drain and siltation ponds. |
| 19. | Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures shall be taken for rainwater harvesting. | --              |
| 20. | No change in mining technology and scope of working should be made without prior approval from the Board. No further expansion or modification in the mine shall be carried out without prior approval from the Board. | --              |
| 21. | The project authority shall develop green belt along the mine lease area with tall growing trees with wide leaf area. | The mining unit planted 42 saplings in the vacant places in the mine lease area and also representative informed that they will develop more green belt in the coming monsoon season. |
22. The project authority shall provide septic tank followed by soak pit for disposal of domestic effluents.  
23. The project authority shall comply with all the directions issued by the Board from time to time.  
24. 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 attract action under the provisions of relevant pollution control Acts.  
25. The Board reserves its right to modify above conditions or stipulate any further conditions in the interest of environment protection.  
26. 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. Earlier, Black Granite mine of M/s Vasundhara Granites, Sy.No.120/P, Sivapuram (V), Peddamandyam (M), Chittoor District has obtained CFO order Dt.04.02.2015 which is valid up to 30.11.2017 for mining of Black Granite – 850 Cum/year in an area of 1.0 Ha. 
   b. Subsequently, the mining unit has obtained name transfer EC vide order Dt.21.09.2015 from SEIAA, Andhra Pradesh for name change from M/s Vasundhara Granites to Sri P.Muthammal and also Name change Amendment to CFO order Dt.10.12.2015 from APPCB. (Copy enclosed)
   c. Now, Black Granite mine of Sri P.Muthammal, Sy.No.120/P, Sivapuram (V), Peddamandyam (M), Chittoor District has applied for CFO renewal for same product & capacities through SDP portal on 16.06.2019 and paid CFO fee of Rs.7,000/- (Rs 5,000/- through online Challan No. 6545570011006, Dt. 16.09.2019 + Rs.2,000/- through DD No.559532, Dt.17.09.2019 towards CFO renewal fee for 7 years i.e., valid up to 30.11.2024 (from 30.11.2017 to 30.11.2024) under Red-Haz category.
   d. The mine is not in operation at the time of inspection.
   e. The industry is adopting semi-mechanized open cast quarry by using jack hammer drilling & wire Saw cutting of the rock.
   f. The industry utilizes water for dust suppression, green belt and domestic purposes. The industry has provided septic tank followed by soak pit for disposal of domestic effluents.
   g. The unit has provided tractor mounted water tanker for water sprinkling in the mine haulage roads to suppress dust emissions.
   h. The unit has provided retaining wall with the waste rock boulders around the proposed dump yard area. The unit has also constructed garland drain.
   i. The mining unit planted 42 saplings in the vacant places in the mine lease area and also representative informed that they will develop more green belt in the coming monsoon season.

12. RO Remarks:
   In view of the above the application of the industry for CFO Renewal of the Board under Air and Water acts may be considered up to 30.11.2024.

13. Zonal Office Remarks:
   As seen from the RO report, the representative of mine will develop the green belt in the coming monsoon season.
   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.