I. M/s. Smt. C. Padmaja, 3.19 Ha Steatite & Dolomite mine, Sy. No. 285, 287/1&2, Venkatagiri (V), (Hamlet of Pendekal), Bethamcherla (M), Kurnool District has applied for CFE of the Board to carry out Mining of Dolomite – 2,683 TPA, Steatite – 2,187 TPA over an extent of 3.19 Ha.

II. The EE, RO, Kurnool vide lr.dt.18.09.2019 submitted the CFE verification report. The details of the proposal as per the report are given below:

1. Applied through : OCMMS
2. Line of activity : Mining of Dolomite & Steatite
3. Project cost : Rs. 50 Lakhs
4. Date of receipt of application : 28.08.2019
5. Date of inspection : 17.09.2019
6. Date of receipt of application at ZO : 19.09.2019
7. CFE fee : The industry has paid CFE fee of Rs. Rs.5,300/- for both Acts under Red-Hazardous category vide Receipt No. 896141707 dt: 28.08.2019.

Area details :
- Total area of the land : 3.19 Ha
- Built up area : ---
- Greenery : The unit has proposed to develop greenbelt all around the mine lease area after commencement of mine operations.
- Nearest Human habitation : The nearest habitation is Venkatagiri (V) is existing at a distance of 0.18 kms in Southern direction from the mine lease area.
- Nearby water body : -
- Nearest Road : -

Surroundings :
- East : Agricultural Lands
- West : Hillock
- North : Agricultural Lands
- South : Agricultural Lands

Raw Material : ---

Products :
- Sl. No. | Name of the Products | Proposed capacity
- 1 | Mining of Dolomite | 2,683 TPA
- 2 | Mining of Steatite | 2,187 TPA

(mine lease area - 3.19 Ha.)

Process Description: The proposed mining will be carried out by underground manual method. It is proposed to open one incline made in this mine. Presently this is serving for both as Man-Way, ventilation and haulage inline. The detailed manufacturing process is enclosed with application.

Source of Water : Borewell

Water Consumption :

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust Suppression</td>
<td>2.0 KLD</td>
</tr>
<tr>
<td>Development of Green Belt</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td>Domestic</td>
<td>1.0 KLD</td>
</tr>
</tbody>
</table>

Total | 4.0 KLD

Waste water generation :

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Source</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Domestic</td>
<td>1.0 KLD</td>
</tr>
</tbody>
</table>

Total | 1.0 KLD
16. **Treatment & disposal of ETP:**

<table>
<thead>
<tr>
<th>Source of Effluent</th>
<th>Treatment proposed</th>
<th>Mode of final disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>---</td>
<td>Septic tank followed by soak pit</td>
</tr>
</tbody>
</table>

The industry proposes to construct garland drains and siltation pond for the overburden & mineral waste dump to arrest the flow of slit and sediments. The water so collected shall be utilized for watering the mine area, roads, green belt development etc.

17. **Solid / Hazardous waste generation:**

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Type of waste</th>
<th>Quantity</th>
<th>Mode of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OB waste</td>
<td>724 m² for 5 years</td>
<td>All the waste generated will be utilized to back pack the exhausted drives in the underground.</td>
</tr>
</tbody>
</table>

18. **Air Emissions:**

19. **Details of Fugitive Emissions:**

Dust emissions during drilling, wire saw cutting, blasting, excavation & transportation.

**Mitigation measures:**

The industry has to implement the following pollution control measures:

1. Shall carryout wet drilling in the underground to suppress the dust during the drilling operations.
2. Shall provide water spraying arrangement on haul roads, loading and unloading and at transfer points for dust suppression.
3. Shall carryout regular grading of the roads for dust suppression
4. Proper and regular maintenance of vehicles and other equipments.
5. Shall limit the speed of the trucks entering or leaving the mine to speed of 25 KMPH

Shall provide dust masks to the drilling crews

20. **Inspecting Officers remarks:**

1) 3.19 Ha Dolomite and Steatite Quarry mining of Smt. C. Padmaja, is located at Sy. No. 285, 287/1&2, Venkatagiri (V), (Hamlet of Pendekal), Bethamcherla (M), Kurnool District over an extent of 3.19 Ha.


3) At present, the industry has applied for Consent for Establishment of the Board for mining of Dolomite – 2,683 TPA, Steatite – 2,187 TPA over an extent of 3.19 Ha.

4) The Deputy Director of Mines & Geology, Dept. of Mines & Geology, Kurnool, Govt. of Andhra Pradesh vide Notice dated 12.07.2018 has informed that, approve the mining scheme (including Progressive Mine Closure Plan) for the period from 2018-19 to 2021-22 for Dolomite and Steatite over the extent of 3.19 Ha in at 285, 287/1&2, Venkatagiri (V), (Hamlet of Pendekal), Bethamcherla (M), Kurnool District in favor of Smt. C. Padmaja.

5) As per the EC Order dated 09.07.2015, it was reported that the nearest habitation is Venkatagiri (V) and is at a distance of about 0.5 KM from the mine lease area. During the inspection GPS co-ordinates were taken and as per the GPS co-ordinates the nearest habitation is Venkatagiri (V) is about 0.18 Kms in Southern direction from the boundary of mine lease area.

6) Earlier, the Head Office communicated the minutes of the CFE committee meeting held on 20.02.2016 at Head Office, APPCB regarding issue of CFE to the mining projects (General Item) wherein it was recommended to issue CFEs to the mining projects located nearer to human habitation who have obtained ECs with the following additional conditions.

- To provide GI sheets of height 20 ft towards human habitation
- To develop greenbelt with tall growing trees all along the boundary
- No blasting in the mining operations except use of low explosives/chemicals without detonator, to develop split in the parent rock for extraction of granite block
- Wet drilling and wire saw cutting method shall be adopted to control dust pollution.

7) The proposed mining activity is underground mining with manual method and it is not a open cast mining / granite mining. However, the mining unit may be directed to take all precautionary measures to avoid any dust pollution to the surrounding areas.

8) During the inspection it was observed that, the unit has not started any mining activity and the unit representative has informed that only after obtaining the CFE/CFO from the Board.
9) Water will be required for dust suppression to prevent fugitive dust emissions, greenbelt development and for domestic purpose will be 4.0 KLD. The industry generates domestic waste water of 1.0 KLD and is proposed to be disposed into septic tank followed by soak pit.

10) The major sources of air pollution are drilling, loading, unloading, movement of vehicles on the haul roads and dumps. The details of pollution control measures proposed by the industry are reported above at Sl. No. 17 (c).

11) The industry proposes to construct garland drains and siltation pond for the overburden & mineral waste dump to arrest the flow of slt and sediments. The water so collected shall be utilized for watering the mine area, roads, green belt development etc.

12) There is no top soil generation due to underground mining and the mineral waste. Over burden waste generated from the mine is being dumped in dump yard of the mine lease area and all the waste generated will be utilized to back pack the exhausted drives in the underground

21. **Recommendations of the Regional Officer:**
   The issue of CFE to the mining activity may be considered stipulating suitable conditions

22. **ZO’s Remarks:**
   The attached inspection report forwarded by the EE, RO, Kurnool may be reviewed.
   The issue is placed before the CFE Committee for review and recommendations