AGENDA ITEM FOR THE CONSENT FOR ESTABLISHMENT COMMITTEE
MEETING TO BE HELD ON 22.10.2019
AT A.P. POLLUTION CONTROL BOARD, ZONAL OFFICE, KURNOOL.

CFE AGENDA ITEM No. 1: M/s White Field Minerals 4.10 Ha Dolomite, Steatite & White shale Mine Mutchukota RF, Gooty Range, Sy.No. 300/1/P, Julakalava (V), Sингanamala (M), Anantapuram District.

I. M/s White Field Minerals 4.10 Ha Dolomite, Steatite & White shale Mine Mutchukota RF, Gooty Range, Sy.No. 300/1/P, Julakalava (V), Sингanamala (M), Anantapuram District has applied for CFE of the Board to Mining of Dolomite - 1552TPA, Mining of Steatite - 1164 TPA & Mining of White shale - 776 TPA in 4.0 Ha.

II. The EE, RO, Anantapuram vide lr.dt.10.10.2019 submitted the CFE verification report. The details of the proposal as per the above report are given below:

2. Applied through: OCMMS
3. Line of activity: Mining of Dolomite, White shale & Steatite
4. Project cost: Rs. 40 Lakhs
5. Date of Receipt of the CFE application at RO: 21.09.2019
6. Date of RO inspection: 01.10.2019
7. Date of receipt of additional information: 03.10.2019
8. Date of receipt of application at ZO: 14.10.2019
9. Fee Details: The industry has paid CFE fee of Rs.4,000/- (Vide Receipt.No. 212851062, dated:21.09.2019 for both Acts under Red Hazardous category.

9. Area details:
   - Total area of the land: 4.10 Ha
   - Built up area: -
   - Greenery: The unit has proposed to develop green belt along the boundary of the mining lease area (7.5 mtrs of the Buffer zone) and also in the back filled and reclaimed areas.
   - Nearest Human habitation: The nearest habitation is Julakalava village and is existing at a distance of about 2.7Kms in South-Western direction from the mine lease area. Also, Alangarpet village is at a distance of 3.2 Km in North-Western direction of MineLease area.
   - Nearby water body: Penna Revar is at distance of 8.5Kms in the North direction from the mine lease area.

10. Surroundings & Road Details:
    - North: Hillock followed by mine lease area of M/s. Nagalingreswara & M/s. Srinivasa Mineral Company
    - South: Hillock
    - East: Mine Lease Area of M/s. South India Mining Company (Expired Mine lease Area)
    - West: Hillock
    - Road details: Anantapurum to Tadipatri Road is at a distance of about 2.1Kms in South-Eastern direction from the mine lease area.

11. Products:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the products and By-products</th>
<th>Capacity Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mining of Dolomite</td>
<td>1552 TPA</td>
</tr>
<tr>
<td>2</td>
<td>Mining of Steatite</td>
<td>1164 TPA</td>
</tr>
<tr>
<td>3</td>
<td>Mining of White shale</td>
<td>776 TPA</td>
</tr>
</tbody>
</table>

12. Process Description:
The proposed mining is underground “Room & Pillar” mining method using drilling & blasting operations. Inclines of 2 mtrs x 2 mtrs in section are developed from surface through soap stone mineralization all along the dip. Levels of 2 mtrs x 2 mtrs in cross section are driven along the body at vertical intervals of 13 – 15 m for developments blast holes are drilled with compressed air operated jack hammers. Drill holes are made in soap stone strata and are blasted with special gelatin using ordinary detonators and safety fuse. For transportation andhosting of minerals from underground tipping tubs & skip hoists are used. Railing will be provided up to the work phase for the convenience of hoisting. The ROM thus excavated from the underground brought to the surface through
the hoist and stacked at the mine site to mineral stack yard. The detailed manufacturing process is enclosed with application.

13. Source of Water : Borewell

14. Water Consumption:

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Dust suppression purpose</td>
<td>4.0 KLD</td>
</tr>
<tr>
<td>Green Belt development</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td>Domestic</td>
<td>1.0 KLD</td>
</tr>
<tr>
<td><strong>Total</strong> <em>(fresh + recycled)</em></td>
<td><strong>6.0 KLD</strong></td>
</tr>
</tbody>
</table>

15. 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>
<tr>
<td></td>
<td>Total</td>
<td><strong>1.0 KLD</strong></td>
</tr>
</tbody>
</table>

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>

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>Mineral Waste</td>
<td>68,000 Tons for the first five years period of the mining activity.</td>
<td>The mineral waste is proposed to be dumped in dump yard towards South – West side of the mine lease area.</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 unit has to implement the following measures to control the dust emissions during the mining activity.

a) Controlled blasting shall be practised and the mitigative measures for control of ground vibrations and to arrest fly rocks shall be implemented.

b) Drills shall be operated with dust extractors or equipped with water injection system,

c) Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and shall be properly maintained.

d) Roads shall be graded to mitigate dust emissions

e) Water shall be sprinkled at regular intervals on the main haul road and other service roads by water sprinklers to suppress the dust.

f) Speed of the trucks entering or leaving the mine is to be limited to moderate speed of 25 KMPH to prevent undue noise from empty trucks.

Plantation along the 7.5 mtrs buffer zone within the quarry lease area.

20. Inspecting Officers remarks:

1. M/s White Field Minerals has proposed to carryout Mining of Dolomite, Steatite & White at Mutchukota Reserve Forest area, Gooty Range in Sy.No. 300/1/P, Julakalava (V), Singanamala (M), Anantapuram District over an extent of 4.10Ha.

2. At present, the unit has applied for Consent for Establishment of the Board for Mining of Dolomite -1,552 TPA, Steatite – 1.164 TPA&White Shale - 776 TPAin 4.10 Ha at Mutchukota Reserve Forest area, Gooty Range in Sy.No. 300/1/P, Julakalava (V), Singanamala (M), Anantapuram District.

3. The unit has obtained Environmental Clearance from SEIAA, Anantapur, Andhra Pradesh vide Order dated: 17.09.2019 for Mining of Dolomite -1,552 TPA, Steatite – 1,164 TPA&White Shale - 776 TPAin 4.10 Ha stipulating the following special conditions along with other regular conditions.

   i. The project proponent shall maintain the set back distance of 7.5 meters buffer zone all around the mine lease area for greenbelt development and other conditions are to be fulfilled.

   ii. The project proponent shall allocate sufficient funds for implementation of CSR activities as committed by the proponent/ representative along with the EMP.

   iii. The pumped out water sump should be constructed on (western side) North – West side and overflow to be discharged in to the natural drain. The total surface area of above the underground mining area should be planted with shallow rooted plants.

   iv. The project proponent shall construct three stage settling tank to treat 1,000 m³/day of water / waste water generated during the mining of White Shale Mineral.

4. The proposed method of mining is underground "Room & Pillar" mining method using drilling & blasting operations. The proposed life of the mine is 212 years.
5. The Mine lease area is located in Reserve Forest of Mutchukota and the applicant has obtained the permission from the Forest department vide G.O.Ms.No.96 dated 18.09.2018 issued by EFS&T department, Govt of Andhra Pradesh. A copy of the G.O along with the Stage – I & Stage -II clearance copies are enclosed with the application.

6. The Industries and Commerce (Mine – III) Department, Govt., of Andhra Pradesh, vide Memo dt: 30.12.2013 have provisionally decided to grant mining lease for soap stone, dolomite and white shale over an extent of 4.1 Ha (or) 10.13 acres in Sy.No. 300/1/P, Julakalava (V), Singanamala (M), Anantapuram District for a period of 20 years subject to submission of the following:
   a) Stage (2) Forest Clearance and copy of agreement with the Forest dept
   b) Approved Mining plan as required under Rule 22 (4) of MC Rules, 1960 through the Director of Mines & Geology within 96) months from the date of receipt of this memo.
   c) Consent for Establishment (CFE) from A.P. Pollution Control Board.

7. The unit has furnished the copy of the Environmental clearance order dated 17.09.219 and also approved mining plan along with the application and the copies are herewith enclosed.

8. During inspection, it was observed that mining activity is not carried out in the mine lease area and the unit representative has informed that they will start the mining activity after obtaining CFE & CFO of the Board. The photographs of the mine lease taken during inspection are enclosed.

9. Water is required for dust suppression within the quarry lease area and along the approach road, greenbelt development and for domestic purpose, and the mining activity requires 6.0 KLD, which will be brought through water tankers from nearby village. The activity 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 dust emissions during drilling, blasting, extraction & loading. The details of pollution control measures proposed by the industry are reported above at Sl.No.13 (iii)

11. There is no top soil (Or) overburden generation in the proposed mining activity as it is an underground mine. However, the unit generates solid waste i.e Mineral waste of 13,600 Tons /annum and is proposed to be dumped in dump yard towards South – West side of the mine lease area.

21. Recommendations of the Regional Officer:
   In view of the above, the application of the unit for Consent for Establishment may be considered duly stipulating suitable conditions.

22. ZO’s Remarks:

   The attached inspection report forwarded by the EE, RO, Anantapur may be reviewed. The issue is placed before the CFE Committee for review and recommendations.