AGENDA ITEM FOR THE CONSENT FOR ESTABLISHMENT COMMITTEE
MEETING TO BE HELD ON 26.09.2019
AT A.P. POLLUTION CONTROL BOARD, ZONAL OFFICE, KURNOOL.

CFE AGENDA ITEM No. 5


I. Sri CLN Reddy 4.619 Ha for Mining of Dolomite, Steatite & White shale, Sy.No.641,642/A,B,643,644,645,649/C,D,E,650,652,653,654/A,B,C,D,E&655 of Kristapadu (V),Peddavaduguru(M), Anantapur District has applied for CFE of the Board to Mining of Dolomite, Steatite & White shale in an area of 4.619 Ha

II. The EE, RO, Anantapuram vide lr.dt.19.09.2019 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 & Steatite
4. Project cost : Rs. 50 Lakhs
5. Date of Receipt of the CFE application at RO : 30.08.2019
6. Date of RO inspection : 19.09.2019
7. Date of receipt of additional information : 19.09.2019
8. Date of receipt of application at ZO : 24.09.2019
9. Fee Details : The industry has paid CFE fee of Rs.5,000/- (Vide Receipt.No. 925706977, dated:30.08.2019 for both Acts under Red Hazardous category.

9. Area details :
   Total area of the land : 4.619 Ha
   Built up area : ---
   Greenery : The unit has proposed to develop green belt along the boundary of the mining lease area and also in the back filled and reclaimed areas.
   Nearest Human habitation : The nearest habitation is Kondupalli at a distance of 300 mtrs in South direction from the mine lease area. Also, Kristipadu village is at a distance of 1.7 Km in North direction of Quarry Lease area.
   Nearby water body : Rayalacheruvu Reservoir is at distance of 2.22 Kms in the West direction from the mine lease area.

10. Surroundings & Road Details :
    North : Agricultural Lands;
    South : Vijayranga Quarry
    East : Agricultural Lands
    West : Kondupalli to Kristipadu road followed by Agricultural Land
    Road details : Ballary to Krishnapatnam port Highway is at a distance of about 3.4 Kms in North direction from the mine lease area.

11. Products :
    Sl. No. | Name of the products and By-products | Capacity Proposed
    1   | Mining of Dolomite                | 1360 TPA
    2   | Mining of Steatite                | 3500 TPA
    3   | Mining of White shale             | 900 TPA

12. Process Description :
    The proposed mining will be semi mechanized underground mining method. There are total 4 ways two of them serves as manways, one as ventilation and two as haulage inclines. Drilling is done by jack hammers supplied through pipe from the compressor placed at the surface. Slurry cartridges of 20cm long and 25mm dia blasting is done by electrical detonators. Transportation for material will be by tracks of 60cms gauge, consists of 15kg/m section tails. The detailed manufacturing process is enclosed with application.

13. Source of Water : Borewell

14. Water Consumption:
    | Purpose         | Quantity |
    |-----------------|----------|
    | Process         | 3.6 KLD  |
    | Domestic        | 1.0 KLD  |
    | Total * (fresh + recycled) | 4.6 KLD  |
15. Waste water generation

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

16. Treatment & disposal of ETP:

<table>
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<tr>
<th>Source of Effluent</th>
<th>Treatment proposed</th>
<th>Mode of final disposal</th>
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<tbody>
<tr>
<td>Domestic</td>
<td></td>
<td>Septic tank followed by soak pit</td>
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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>
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<tr>
<td>1</td>
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18. Air Emissions:

19. Details of Fugitive Emissions:

Mitigation measures:
The unit has to implement the following measures to control the dust emissions during the mining activity.

a) Wet drilling system, optima wire saw cutting using water to reduce the dust generation.
b) Use of sharp drill bits for drilling holes. The charge concentration of the explosives will be between 10-40 grams per linear meter.
c) Water sprinkling arrangements such as specially fabricated tankers mounted on tipper are deployed at mine site to control fugitive dust generation from the haulage roads.
d) Regular grading of haul roads and service roads to clear the accumulation of loose material.
e) The blasted blocks are wetted by spraying water.
f) Avoiding the blasting during the high windy periods, night times and temperature inversion periods etc., the details are enclosed with the application.

20. Inspecting Officers remarks:

1. Sri CLN Reddy has proposed to carryout Mining of Dolomite -1,360 Tons/annum, Steatite – 3,500 Tons/annum & White Shale - 900 Tons/annum at Sy.No.641,642/A,B,643,644,645, 649/C,D,E, 650,652,653,654/A, B, C, D, E & 655 of Kristapadu (V), Peddavaduguru(M), Anantapuram District over an extent of 4.619 Ha and has applied for Consent for Establishment of the Board.


3. The proposed method of mining will be by semi-mechanized Underground mining working of quarrying by using Jack Hammer drilling, cutting by wire saw method & blasting by low explosives if required. The proposed life of the mine is 20 years.

4. 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 have not carried out mining activity in the lease area. The unit representative informed that they will start the mining activity after obtaining CFE & CFO of the Board.

5. Water will be 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 4.6 KLD, which will be water tankers from nearby village. The industry generates domestic waste water of 1.0 KLD and is proposed to be disposed into septic tank followed by soak pit.

6. The major sources of air pollution are dust emissions during drilling, wire saw cutting, blasting, excavation & transportation. The details of pollution control measures proposed by the industry are reported above at Sl.No.13 (iii).

7. There is no top soil (Or) overburden generation in the mine and there shall be any sub-grade of mineral as it is consumed by blending. Mineral rejects are not consumed by blending. Mineral rejects are not generated in this mine. The waste dolomite generated in this mine is wall packed in the mine out areas, in the underground itself.

21. Recommendations of the Regional Officer:

In view of the above, the application of the unit for Consent for Establishment may be considered by 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.