Welcome
A REPRESENTATIVE SCENARIO - MSW IN MUMBAI

6250 TPD of SOLID WASTE COLLECTED

EXISTING THREE DISPOSAL SITES

DEONAR MULUND GORAI

150 Hectare

TO FULFIL NOTIFIED REQUIREMENT OF M O E F, GOI, GOM

600 to 800 Hectares of land necessary for Sanitary Engineered Landfills over 20 years AND

RECOVER RECYCLABLE AND PROCESS BY VERMI COMPOSTING WASTE TO COMPOST WASTE TO ENERGY

IS IT A MANAGEABLE TASK?

Capital cost for developing these will not be less than Rs. 300 crores for 1000 Tonnes plus maintenance costs will be an additional Rs. 400 per Tonne.
ADVANCED LOCALITY MANAGEMENT (ALM)

BASIC PRINCIPLE

• “SELF GOVERNANCE” by Citizens
• Through partnership with the MCGM
• Improvement of the locality or Area adopted
• Sustainable development through direct participation in city governance

Citizens  MCGM
There are two partners in the A.L.M.

 THE RESIDENTS, HOUSEHOLDERS, SHOP KEEPER, INDUSTRIES

 THE MUNICIPAL CORPORATION OF GREATER MUMBAI (MCGM)
Qualification for the citizen group for recognition as the A.L.M.

Should represent buildings / chawl / group of buildings / lane or a compact area.

Should indicate the commitment to cleanliness through the segregation of garbage & to maintain the premises / road / area.

should form local committee representing all the participants.
Residents shall maintain two bins for

→ **Bio-degradable waste (Wet waste)**

→ **Recyclable waste (dry waste)**

to be kept separate from

• Dry waste shall be disposed off directly through rag pickers / Jamadar.
## Composition of MSW (by wet weight)

<table>
<thead>
<tr>
<th>Item</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Paper &amp; Cardboard</td>
<td>15.00 %</td>
</tr>
<tr>
<td>b) Plastics</td>
<td>0.75 %</td>
</tr>
<tr>
<td>c) Metals (ferrous)</td>
<td>0.80 %</td>
</tr>
<tr>
<td>d) Glass</td>
<td>0.40 %</td>
</tr>
<tr>
<td>e) Sand &amp; Fine Earth</td>
<td>35.00 %</td>
</tr>
<tr>
<td>f) Compostable matter</td>
<td>37.50 %</td>
</tr>
<tr>
<td>g) Others</td>
<td>10.55 %</td>
</tr>
</tbody>
</table>
Wet waste

Wet Waste is utilized for vermi-processing / Composting

• in flower bed
• in situ composting
• in vermi pit
• in pots & Kundies
BARC biogas plant

निसर्ग ऋण

DR. SHARAD P. HALE
DHAASH ATOMIC RESEARCH CENTRE, MUMBAI 400094
Chandrapur Nisargarun Biogas Plant
<table>
<thead>
<tr>
<th>Zone</th>
<th>ALM</th>
<th>Vermi-culture</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>88</td>
<td>33</td>
</tr>
<tr>
<td>II</td>
<td>72</td>
<td>38</td>
</tr>
<tr>
<td>III</td>
<td>181</td>
<td>86</td>
</tr>
<tr>
<td>IV</td>
<td>67</td>
<td>42</td>
</tr>
<tr>
<td>V</td>
<td>80</td>
<td>31</td>
</tr>
<tr>
<td>VI</td>
<td>90</td>
<td>31</td>
</tr>
<tr>
<td>Total</td>
<td>578</td>
<td>261</td>
</tr>
</tbody>
</table>
Zone I

ALM 88  Vermi-Culture 33

• D Road Church Gate
APPEAL’S
CITIZENs, NGO’s,
TO JOIN
A. L. M.
HELP LINE
EX-OSD Shri. S.S.Bhagwat
Phone [R] - 02512481221
Mobile - +91 9223500883

Thanks