A Paper on Solid Waste Management in Kolhapur City: A Case Study
Content of the Presentation:-

- Kolhapur Municipal Corporation’s Solid Waste Management Project
- Zoom Biofertilizers Pvt. Ltd. Solid Waste Management Plant
- Project Information
- Solid Waste Treatment Mechanism
- Process Units
- Research & Development
- Quality Control Monitoring (Lab Analysis)
- Management Aspect
Kolhapur Municipal Corporation’s Solid Waste Management Project

• Kolhapur Municipal Corporation (KMC) has been working & planning towards making the city clean and environmental friendly.

• Solid Waste Management Project is one of the most important & significant aspect of this entire exercise.

• The very first & only solid waste disposal system for Kolhapur city was designed in 1999.

• Then onwards, KMC has started solid waste disposal project at Bawada avoiding the desperate dumping of waste i.e Zoom Biofertilizers Pvt. Ltd.
• Location: **Line Bazar, Kasba Bawda, Kolhapur.**

• Approval of Standing Committee, Kolhapur Municipal Corporation on 15th May 1999.

• Contract with K.M.C. for 30 years signed on 11th Sept, 2000.

• G.R. from Maharashtra Government for project set up on 29th January, 2000.

• Permission from Maharashtra Pollution Control Board for setting up project on 20 February, 2001.

• Construction Permit from Town Planning Dept. (K.M.C.) on 25th Sept 2002.

• Capacity: **150 Tones**

• Process Used: **Application of Biocultures followed by aerobic Decomposition.**

• Area of Plant: **10 Ha**

• Weighbridge permission certificate obtained on 13th August, 2004.
Solid Waste Treatment Mechanism

1.0 Weighing & Unloading of MSW

2.0 Segregation Process

3.0 The 45 Day Composting Process

4.0 Sieving & Packing Process

5.0 Storage of finished product

6.0 Dispatch of Product to Customer
Research & Development Activities (Laboratory Analysis)

1.0 Development of Bio-cultures
2.0 Preparation of various lab media / solutions
3.0 Testing of Bio-fertilizer samples
4.0 Preparation of Analysis Report
5.0 Inventory Management
6.0 General Precautions to be taken
Shaker

Thermo Controller Shaker

Autoclave & Fermenter Units
Final Product : Bio-fertilizer
Conclusion

• Zoom Solid Waste Disposal & Treatment Plant plays very important role in solid waste disposal of Kolhapur city.

• It is good & practical example of good quality Solid Waste Disposal & Treatment Plant in O&M.

• The entire process of MSW disposal & treatment plant is understood.

• This plant is also closely concerned with sanitation of city.

• Ultimately plant controls solid waste of Kolhapur from open decomposition of waste & ultimately the degrading sanitation of city.
Thank You!