

Pathways to Circular Economy Mysuru – Case Study CHIDAMBAR BS

Humverm Private Limited

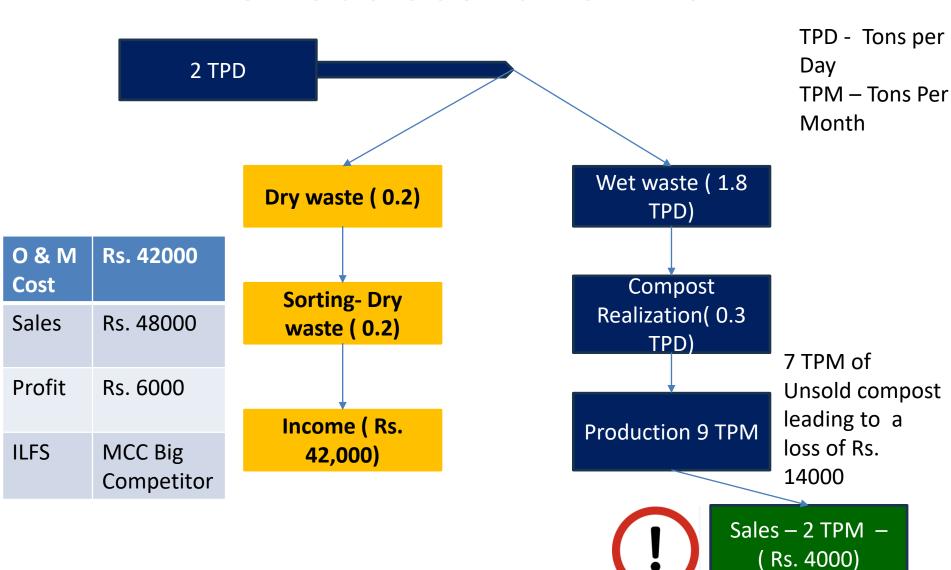
During 2008 as part of JnNurm Works, facilitated the development of 9 Zero waste management (ZWM) Plants at Mysuru City



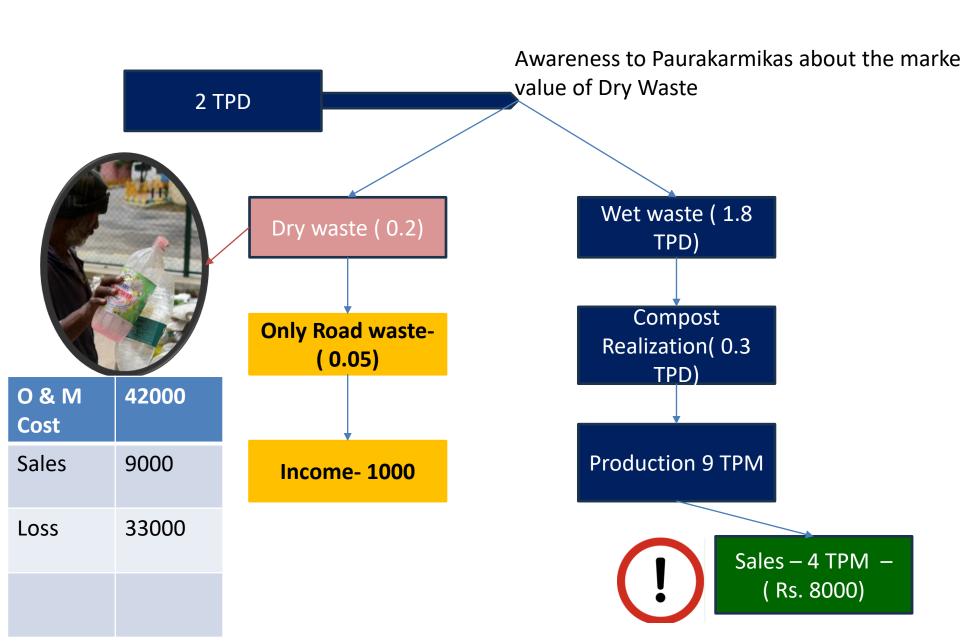


In 2014 I took up O&M of 2 ZWM plants at Mysuru City

Previous Scenario - 2014

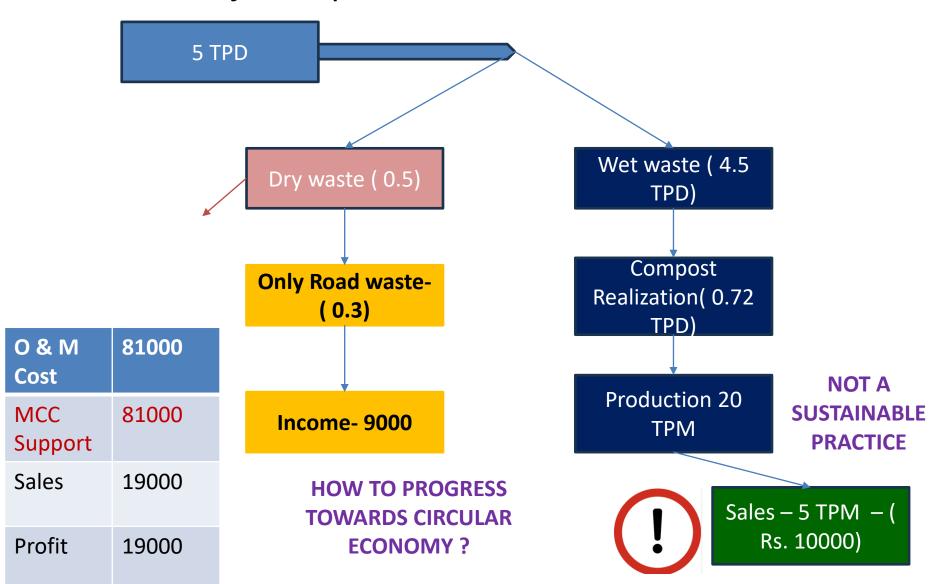


Scenario – 2015



Scenario – 2016

Project Expansion from 2TPD to 5 TPD



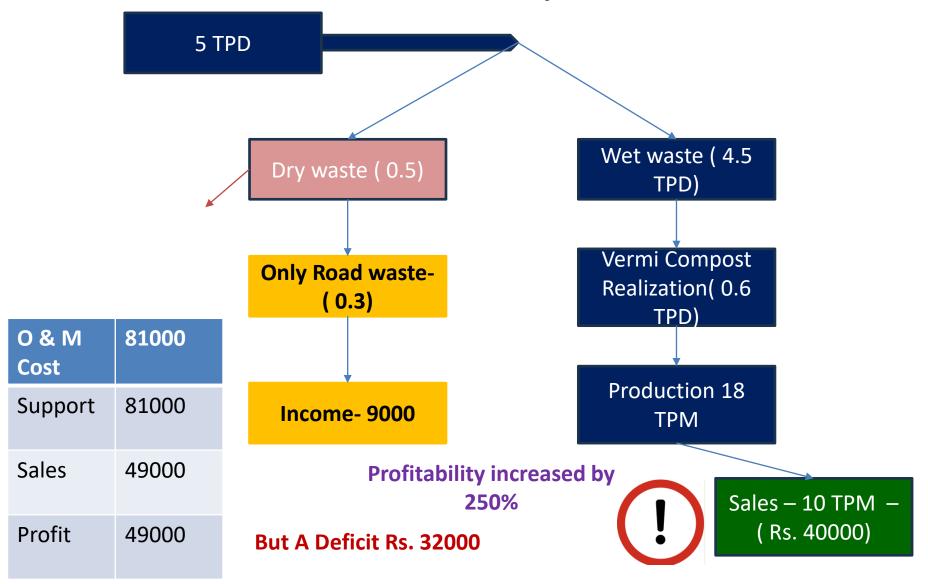
ISSUES

- Left with only wet waste & No buyers for city compost
- IL&FS was selling Compost at Rs. 2.20 / Kg is a big competitor
- ZWM compost out put 720 Kg / Day with negligible sales of 210 kg/day
- Workers became lethargic as they get fixed salary.
- Production came down.
- Quality of compost deteriorated causing loss of trust in buyers as plants died soon after application of compost.
- Everybody was enjoying a free meal with this unsuccessful/ unsustainable plant.

STRATEGY 2016

- Market study
 - Lack of vermi compost availability in the market
 - Customers not aware of vermicompost and its utilization.
- Switched over from Biocompost to Vermicompost Production
 - Process and infrastructure modifications

Scenario – 2016 Vermi compost



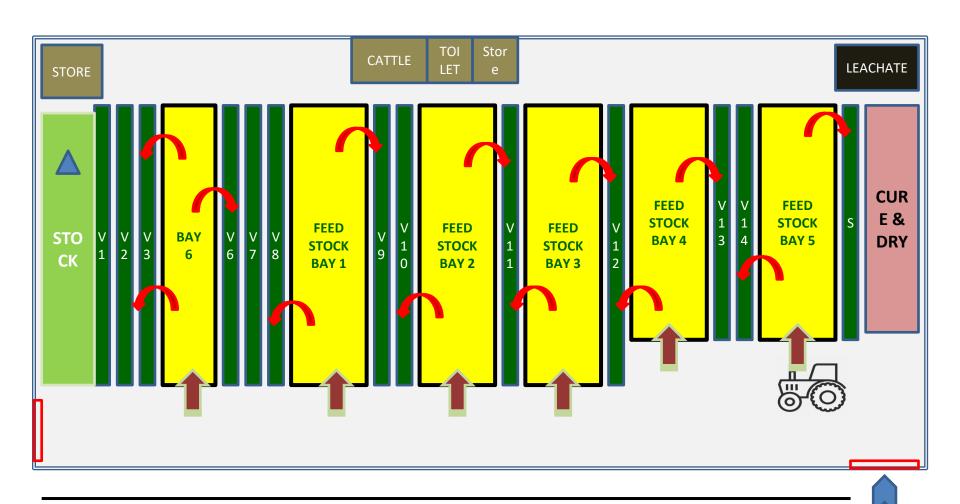
Lessons Learned

- We learnt how to market our products
- We achieved good sales in vermicompost
- We started giving credit period for our customers
- To self sustain we needed atleast 10 tons wet waste input, but the infrastructure was not adequate.

Bagged 12 TPD O&M from Agriculture Produce Marketing Committee (APMC)

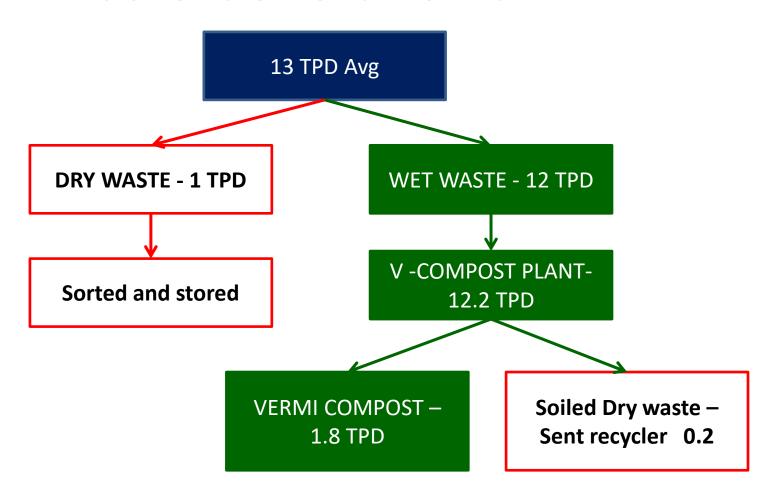


SOLID WASTE MANAGEMENT AT APMC, MYSURU

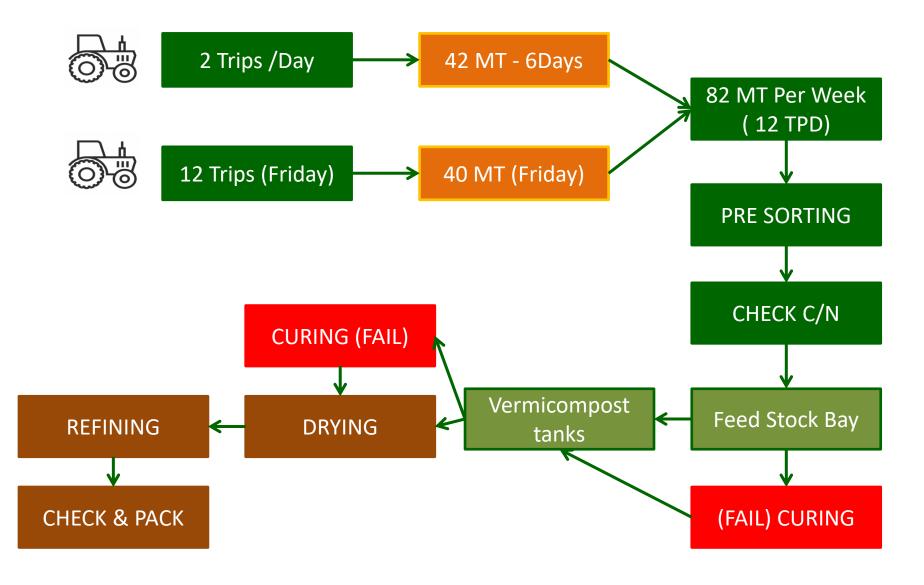




Waste Generation at APMC



WORK FLOW



Stock & Transport





FOCUSING ON RESULTS – TARGET DRIVEN APPROACH

- Measure Physical progress and financial progress daily
- 1. The workers have to produce a minimum of 2 tpd of vermicompost daily (4 male + 4 female)
- 2. The marketing team has to sell minimum of 30 tons





	Input							
	Wet							
Year	waste	Per						
wise	Per Day	Month	Per Year					
2018-19	11.3	339	4068					
2019-20	11.5	345	4140					
2020-21	12	360	4320					
2021-22	13	390	4680					

Increase in production – 488 tons to 702 Tons Per Year

Increase in Sales from 195 tons per year to 702 Tons per Year

Loss of Rs. 1.03 Lakhs to a profit of Rs 20.6 Lakhs per Year

	OUT PUT			P/L			
Year wise	Per Day		Production Per Year	Sales (Tons)	Income (Rs)	Operation cost (Rs)	Profit Per Year (Rs)
2018-19	1.356	40.68	488.16	195.264	976320	1080000	-103680
2019-20	1.495	44.85	538.2	269.1	2691000	1440000	1251000
2020-21	1.68	50.4	604.8	362.88	3326400	1620000	1706400
2021-22	1.95	58.5	702	702	3861000	1800000	2061000

A systematic approach by focusing on Process, Production, People & Profitability Leads to Circular Economy.

PROJECT EXPANSION



Additional products

- Bio char
- Vermichar
- Panchagavya enriched vermicompost

Training Programmes



• Thank You