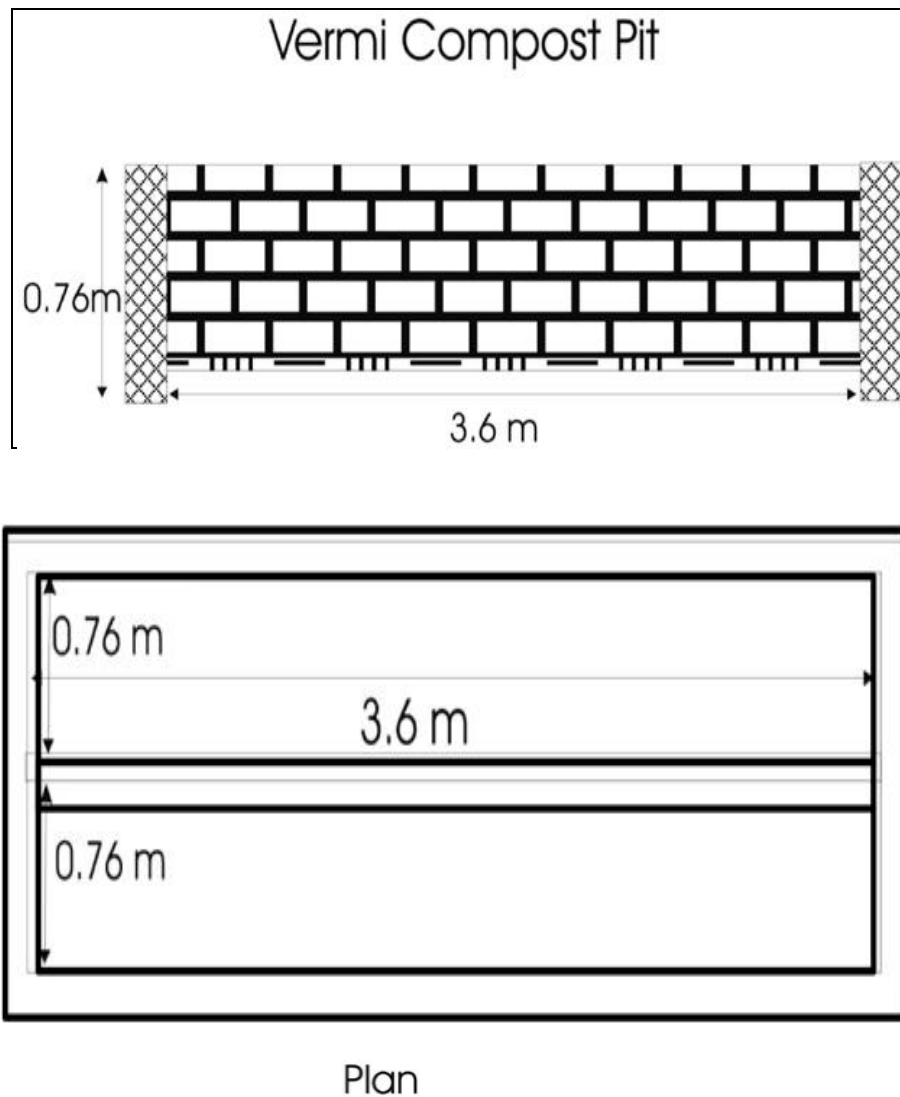


## VERMI-COMPOSTING

Vermi-composting uses earthworms to turn organic wastes into very high quality Compost. In ideal conditions worms can produce at least their own weight of organic matter in a day. The micro-organisms in the worm casts promote healthy plant growth. Usually, a twin pit model is used for vermi-composting, with the pit size of 3.6m\* 1.5m\* 0.76 m and with a dividing wall in the middle. Vermi-composts are best suited for intensive application in kitchen gardens and small vegetable plots. One vermi-compost pit produces 0.15 tonne of compost, which is sufficient for enhancing productivity of 0.25 hectare (2500 sq.m.).

Typical drawing and estimate for Vermi Compost pit are given below:



**Fig: Typical drawing of vermin compost pit**

**Table: Typical Estimate of Vermi compost pit**

Cost estimate of Vermi compost Pit (Twin-Pit Model)									
S. No.	Detail	No.	L	W	H/D	Unit	Qty	Rate	Amount
1	Excavation for foundation in Hard Soil								
	Long Wall	3	4.4	0.3	0.3	cum	1.188		
	Short Wall	2	1.5	0.3	0.3	cum	0.27		
	<b>Total</b>					cum	<b>1.458</b>	67.8	98.9
2	Boulder laying in foundation								
	Long Wall	3	4.4	0.3	0.1	cum	0.396		
	Short Wall	2	1.5	0.3	0.	cum	0.09		
	<b>Total</b>					cum	<b>0.486</b>	358.5	174.2
3	Brick Masonry in 1:4 Cement Mortar upto Ground level								
	Long Wall	3	4	0.2	0.2	cum	0.48		
	Short Wall	2	1.5	0.2	0.2	cum	0.12		
5	Brick Masonry in 1:4 Cement mortar above ground								
	Long Wall	3	4	0.2	0.76	cum	1.824		
	Short Wall	2	1.5	0.2	0.76	cum	0.456		
	<b>Total Brick Masonary</b>						<b>2.88</b>	2509.2	7226.5
6	Plastering at top 1:4 Cement motor								
	Long Wall	2	4	0.96		sqm	7.68		
	Short Wall	2	1.5	0.96		sqm	2.88		
	Cost of Nadep Compost								7683
7	PCC 1:2:4 CM for flooring	2	3.6	0.76	0.05	cum	0.2736	2507.5	686.1
	Cost of Vermi Compost Pit								9134
						<b>Labour</b>		<b>2363.1</b>	<b>26%</b>
						<b>Material</b>		<b>6770.8</b>	<b>74%</b>