

Silpaulin Vermicomposting- Demonstration Unit

Krishi Vigyan Kendra, Thiruvavur maintaining Vermicomposting Demonstration Unit with 4 numbers of Silpaulinvermibed. Specification of Silpaulin bag : Length 12' x Width 4.5' and Height 2.5'. Production capacity :2400 kg vermicompost per unit in 3 months duration.

Materials required

Silpaulin vermin bag, Biodegradable wastes like crop and weed residues and leaf litter, cow dung, earthworm

Phase of vermicomposting

- Phase 1 Processing involving collection of wastes, shredding, mechanical separation of the metal, glass and ceramics and storage of organic wastes.
- Phase 2 Pre digestion of organic waste for twenty days by heaping the material along with cattle dung slurry. This process partially digests the material and fit for earthworm consumption. Cattle dung and biogas slurry may be used after drying. Wet dung should not be used for vermicompost production.
- Phase 3 Formation of silpaulinvermibed by using stakes
- Phase 4 Filling of silpaulinvermibed with partially digested organic materials and cow dung, and maintain the moisture at 60%
- Phase 5 Releasing of earthworm @ 10 kg / vermibag
- Phase 6 Vermicomposting will be completed for 30 days
- Phase 7 Collection of earthworm after completion of vermicomposting. Sieving the composted material to separate fully composted material. The partially composted material will be again put into vermicompost bed.
- Phase 8 Storing the vermicompost in proper place to maintain moisture and allow the beneficial microorganisms to grow.

Budget

Silpaulin bag - 250 GSM (Length 12' x Width 4.5' and Height 2.5')	:	Rs. 2500
Earthworms – 10 kg	:	Rs. 3500
Expenditure for stakes	:	Rs. 500
Maintenance cost for 3 months	:	Rs. 500
Total expenditure	:	Rs. 7000

Income

Vermicompost @ Rs. 12/kg	:	Rs. 7200
Earthworms @ Rs.350/kg	:	Rs. 1750
Income for 3 months	:	Rs. 8950
Total income per year Rs. 8950X 4	:	Rs. 35800

