NADEP COMPOSTING

NADEP composting is a natural process by which biomass wastes, soil wastes and animal wastes are biologically degraded and decomposed into an organic - compost

1. Materials Required

- Construction of a 6 ft x 3ft x 4ft aerated tank made of locally available materials like splitted bamboo or bamboo post or wooden post or plank
- (2) About 1500 Kg of agricultural wastes/ dried plant residues
- (3) About 100 Kg cowdung or slurry until harvesting
- (4) About 1700 Kg fine dry soil mass
- (5) About 1500 litres of water till harvesting

2. Process

- (1) Collection of locally available materials for construction of aerated tank
- (2) Collection of biomass like cowdung, cowdung slurry, soil mass
- (3) Dry the plant residues, soil-mass
- (4) The 1st layer of 15 cms thickness is to be filled with biomass wastes and filled with cowdung slurry and followed with dried soil-mass. This sequence of layering is to be repeated till the tank is more than full
- (5) One sequence of three layers must be completed in one go
- (6) Repeat (4) above till the take is more than full on
- (7) The top layer is to be plastered with cowdung

3. After Care

(1) Water should be regularly sprinkled (depending upon the season)

4. Precautions

(1) The area in which the tank is constructed should be compact



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- (2) The ground of the tank is to be plastered with mud and dung to present leaching
- (3) As soon as cracks develop, filled up with dung slurry.
- (4) After completion of a sequence of 3 layers @ 15 cm per layer, the filling of the last sequence of remaining layers should be done after observation of the settlement of the 3 earlier layers
- (5) Make a roofing structure with locally available materials to protect from rain and direct sunlight

5. Harvesting

- Harvesting will be done after decomposition which may take 100 to 200 days without organic solution to hasten the decomposition
- (2) The compost is then ran through a sieve and store in a cool place in gunny bag or locally available material so as to prevent loss of moisture, etc
- (3) A tank size of (6 x 3 x 4) ft with a capacity of 1500 Kg agricultural wastes, 100 Kg cowdung, 1700 Kg fine dry soil-mass and 1500 litres water may yield 700 Kg NADEP compost in about 100 – 200 days



Mixing of cowdung slurry



1st Layer: Fill with 6 "of biomass



Chopping of dry biomass







Construction of aerated tank



3rd Layer: Stacking with top soil



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