

**ANNEXURE - 2.1****DETAILS OF SCHEME OF BIOCOMPOSTING****METHODOLOGY**

Biocompost preparation from PMC and effluent

- The proportion of PMC to effluent shall be 1:3.5
- The effluent shall be added to PMC, periodically by making 50-60 % moisture.
- Decomposting culture shall be added at the rate 0.5 – 1.0 Kg/MT of material.
- Turning shall be given after every application of effluent
- Final compost shall be enriched by using of azatobactor and phosphorus solublizing culture at the rate 1 Kg/MT of compost.

**Press mud and land for biocomposting**

Working days in distillery	-	270 days
Press to effluent ratio	-	1:3.5
Cycles in a year	-	4
Raw Spent Wash for 270 days	-	260000 m3
Raw spent wash after Reverse Osmosis	-	130,000 m3
Press mud/biomass required/annum	-	37143 MT
Press mud /biomassrequired /cycle	-	9286 MT
Press mud processing /ha. of land	-	2100 MT
Land requirement	-	4.42 hactares or 10.97 acres – 11 acres
Land requirement for press mud storage, Lagoon and product		
	-	4.00 acres
Total land requirement	-	15.0 acres
Storage lagoon dully lined with 250 micron HDPE sheet	-	equivalent to 30 days storage capacity

**EQUIPMENT AND MACHINES ALREADY AVAILABLE WITH SDCW.**

- 1 No. Tractor for transporting press mud from storage site to bio composting site
- 1 No Homogenizing machine, fitted with auto spraying system, capable of churning the windrows up to the bottom with compatible tractor of minimum 70 HPr.
- 1 No. Front end loader with tractor or JCB, bucket capacity of 600- 1000 Kg.
- Sieving machine – one no.
- Sewing machine – one number
- Automatic packaging machine – one number