

## **DGPL - GREENRICH INSTITUTIONAL COMPOSTERS**

1. **GRC 2000** - Dimensions L 4'0" X B 5'0" X H 4'6"



### **STANDARDS :**

**Capacity – 2000 Ltr**

**Wet waste intake: Upto 160 Ltr per day** (Equivalent to 80 - 100 kg)  
(Equivalent to waste generated by upto 160 families/flats per day)

No. of days taken to fill the bin: 25-30 days

No. of days for compost to be formed after the bin is full: 25-30 days.

Qty of solid compost formed: 25% of the waste deposited on weight

Qty of liquid compost formed: 100 ltrs (Approx)

(The composting process will be done with 2 bins. One bin will be filling of the waste and another will be composting.)

**My Green Microbes – 30 Kgs per month**

If Shredder is used, more wastage can be accommodating in the bin.

No Electricity and maintenance costs.

### **TECHNICAL SPECIFICATION:**

GRB-2000 of size- Dimensions L 4'0" X B 5'0" X H 4'6" made out of FRP Panel of thickness 5mm with the interior of the bin finished with additional FRP ribs of width 200mm with 8mm aerator holes are made inside, outside, top and bottom, joined together with FRP lining and SS fasteners. The bottom tank to be of ht 100mm and covered with FRP plates of thickness 5mm with 8mm holes for the Leachate to be collected. The bottom tank is provided with 20mm Ball Valve- 1Nos. The Central portion to have FRP channels with 75mm aerator pipes with 8mm holes supported between top and bottom FRP channels with end cap. The sides to have 2 doors of dia 450mm fixed with SS flat & nut with plastic head. The panels to be supported with hot dip galvanised MS channels of 3mm thickness. The top of the bin provided with 8 doors, all with FRP of thickness 3mm with MS Stay. The bin to be engulfed outside with 50mm x 25mm hot dip galvanised MS section at 2 levels. The bins are provided 4 nos of hot dipped galvanised MS handle of size 250mm and SS hinges complete .

**Fungal Innoculum** : Fungal Innoculum perform important services related to water dynamics, nutrient cycling, and disease suppression. They are important as decomposers in the soil food web. They convert hard-to-digest organic material into forms that other organisms can use. They physically bind soil particles together, creating stable aggregates that help increase water infiltration and soil water holding capacity.

The FI decomposes the waste aerobically into high nutrient organic planting media and manure.

The advantage is that no churning or rotation process is involved.

### **MY GREEN BIN – INSTRUCTIONS**

- Spread 1 cm layer of My Green Microbes at the bottom of the composter. Vegetable peels & Fruit waste has to be chopped to small pieces and added to the Composter for upto 3" height. If the waste are added as big chunks the Microbes will not act at its full strength and maggots may be generated.
- The leftover food in the plastic bags should not be thrown directly into the composter. Only the leftover food has to be added & the plastic bag has to be removed compulsorily.
- Do not add any liquid items in the composter.
- The dry leaves from the garden can be added only after adding microbes above the waste only.
- Spread ½ cm of microbes above the waste, necessary to cover the waste totally.
- Now again add 3" of waste and add ½ cm of microbes regularly till the composter is filled (approx. 25-30 days).
- Once you start using the My Green composter, every two days the liquid stored in the lower chamber should be removed and discarded, till the liquid turns into dark leachate and this leachate or Bio booster can be stored and used as organic fertilizer.
- The bio composter is designed to collect Bio booster separately. This can be diluted with water @ 1:10 ratio and sprayed on to plants acts as bio booster and pest repellent.
- Once the first composter is full, it has to be closed & kept undisturbed for 15 days. On the 16th day remove the top dry layer (around 10-12 inches) into the empty microbes bag where further curing happens. Repeat this every alternate day. By the next 10-15 day the whole compost can be transferred into the bags emptying the composter for the next cycle. After 15 days the compost can be used to nourish the soil also it can be used as Planting Media. The rich organic manure can be used as potting soil instead of conventional soil and you can cultivate your own organic vegetables.
- Repeat the above process in the second MY GREEN COMPOSTER. By the time second composter is full, the first composter will be empty.
- It is advisable to have one person who will be in charge of the My Green Composter operations.