DGPL - GREENRICH BULK DIGESTORS

1. **GRB 3000 -** Dimensions L 1.83 X1.53 X1.45 mtr

STANDARDS:

Capacity – 3000 Ltr
Material of Construction : FRP with hot dip galvanized steel structure
Wet waste intake: Upto 250 Ltr per day
No. of days taken to fill the bin: 30 days continuously.
No. of days for compost to be harvested after the bin is full: 30 days approx
Qty of solid compost formed : 25% of the waste deposited on weight
Qty of liquid compost formed : 150 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 – 45 Kgs per month
If Shredder is used, more wastage can be accommodating in the bin.
No maintenance costs.

TECHNICAL SPECIFICATION :

GRB-3000 of size- Dimensions L 1.83 x B 1.53 x H 1.45 mtr 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- 2Nos. The Central portion to have FRP channels with 75mm aerator pipes with 8mm holes supported between top and bottom FRP channels with end cap.

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2. GRB 5000 - Dimensions L 2.9 x 1.53 x1.45 mtr

STANDARDS:

Capacity – 5000 Ltr

Material of Construction : FRP with hot dip galvanized steel structure

Wet waste intake: Upto 400 Ltr per day

No. of days taken to fill the bin: 30 days continuously.

No. of days for compost to be harvested after the bin is full: 30 days approx

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

Qty of liquid compost formed : 250 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 – 60 Kgs per month

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

No maintenance costs.

TECHNICAL SPECIFICATION :

GRB-5000 of size- Dimensions L 2.90x B 1.53 x H 1.45 mtr 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 4 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 4 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 will be provided with 1 Blower mounted on FRP channel - Blower of specification: Single Phase, Power Input – 180 watts, Air Flow rate – 460 M3/ br and the blower outlet of 32 mm/PVC pipe & internally with 32mm /PVC pipes with raises of 25 mm/ PVC Pipe of height 150mm at spaced at a distance of 400mm. The bins are provided with hot dipped galvanised MS handle of size 250mm and SS hinges complete.

3. GRB 7000 - Dimensions L 4.12 X 1.53 X 1.45 mtr

STANDARDS :

Capacity – 7000 Ltr

Material of Construction : FRP with hot dip galvanized steel structure

Wet waste intake: Upto 600 Ltr per day

No. of days taken to fill the bin: 30 days continuously.

No. of days for compost to be harvested after the bin is full: 30 days approx

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

Qty of liquid compost formed : 350 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 – 90 Kgs per month

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

No maintenance costs.

TECHNICAL SPECIFICATION :

GRB-7000 of size- Dimensions L 4.2x B 1.53 x H 1.45 mtr 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 6 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 6 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 will be provided with 1 Blower mounted on FRP channel - Blower of specification: Single Phase, Power Input – 180 watts, Air Flow rate – 460 M3/ br and the blower outlet of 32 mm/PVC pipe & internally with 32mm /PVC pipes with raises of 25 mm/ PVC Pipe of height 150mm at spaced at a distance of 400mm. The bins are provided with hot dipped galvanised MS handle of size 250mm and SS hinges complete.

4. GRB 9000 - Dimensions L 5.26 X 1.53 X 1.45 mtr

STANDARDS
Capacity – 9000 Ltr
Material of Construction : FRP with hot dip galvanized steel structure
Wet waste intake: Upto 750 Ltr per day
No. of days taken to fill the bin: 30 days continuously.
No. of days for compost to be harvested after the bin is full: 30 days approx
Qty of solid compost formed : 25% of the waste deposited on weight
Qty of liquid compost formed : 450 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 – 120 Kgs per month
If Shredder is used, more wastage can be accommodating in the bin.
No maintenance costs.

TECHNICAL SPECIFICATION :
GRB -9000 of size – L 5.26 m x 1.53 m x 1.45m 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 and 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 -2 nos. 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 8 doors of dia 450 mm 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 will be provided with 2 Blowers mounted on FRP channel - Blower of specification: Single Phase, Power Input – 180 watts, Air Flow rate – 460 M3/ br and the blower outlet of 32 mm/PVC pipe & internally with 32mm /PVC pipes with raises of 25 mm/ PVC Pipe of height 150mm at spaced at a distance of 400mm. The bins are provided with hot dipped galvanised MS handle of size 250 mm and SS Hinges complete.

Aeration : The Blower provides additional air circulation in the composter which circulates inside the bin, thus enhancing the composting process

Bulk composting Unit Specification

- My Green bin is an aerobic composting system which functions with My Green Bin Microbes that acts as an activator developed with ligno-cellular lytic material.
- The system works on technology of advanced composting using aerobic assistance.
- The wet waste is sandwiched between spongy matrix which allows the microbes to absorb moisture.
- The matrix also adsorbs stench and obnoxious gases and provides for the aerobic condition, when waste disintegrates into uniform particles along with the matrix into healthy nutrient rich organic manure.
- MY GREEN BIN provides a Soilless Planting Media and Bio Fluid (organic liquid manure).
- The moulded fibre glass bins are more authentic since it has good quality of aeration that increases the oxygen flow inside the bin.
- During the process from the 10th day we will get an organic liquid called Compost Tea.
- Compost Tea is a Natural Organic Pesticide & Bio Booster for the plants. 100 ml of Compost Tea can be added to 1 litre of water and can be sprayed on the plants and trees which acts as a natural organic booster. Compost tea has been certified as organic fertilizer by SGS.
- Once the composting process is complete the waste gets converted into Rich Organic Manure. In the first year, the process will yield 7 cycles of compost and from the 2nd year onwards 8 cycles of compost will be generated.

Blower Specification :

Model	Supply	Full Open Air Output m^3 / hr	Shut off Static Pressure mmwc	Power Input Max W	Current A	Speed RPM	Inlet Air Temp. Max ◻	Insulation	Weight Kg	Sound Level dbA
DB15T2	380/415V,3 ϕ ,50/60Hz	1450/1650	48/72	640/1000	1/1.6	2770/3200	50	Class F	10	72/80

DEFTECH & GREENINDIA PVT LTD

DGPL - 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 inch 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" to 4" 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 inch of microbes above the waste, necessary to cover the waste totally.
- Now again add 4" of waste and add ½ inch of microbes regularly till the composter is filled (approx. 25-30 days). In the bigger composters for every 2" waste deposited, one layer of microbes has to be added may be ¼ "thickness.
- 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.

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