TECHNICAL SPECIFICATIONS OF BIOGAS PLANT

| | | Total 7cubic meter (Digester Tank -4500 Ltr. Gas |
|----|------------------------------|---|
| 1 | Plant Capacity | Tank-2500 Ltr. |
| 2 | Dimensions | 4.0L X 1.5W X 1.3H meters |
| 3 | Type of process | It is Single Stage Biomethanation Process . |
| 4 | Process Temperature | >20°C /68F |
| 5 | Nominal Gas Pressure | 10mbar |
| 6 | Biogas Generation Details | 1.58 Cu. M. per day |
| 7 | Gas Pipe Max Length | 20 Meter |
| 8 | Liquid Fertilizer Generation | Max.120 Liters/Day |
| 9 | Daily Feed Material | 20 Kg segregated organic wet waste /day (optional—Cow Dung 70 Kg per day) |
| 10 | Biogas Composition | |
| | Methane CH4 | 55% - 75% |
| | Carbon Dioxide CO2 | 25% - 50% |
| | Hydrogen Sulfide H2S | 0-3% |
| | Moisture and Nitrogen N2 | 0% - 10% |
| | Hydrogen H2 | 0%-1% |
| | Oxygen O2 | 0%-0.5% |
| 11 | Digester unit | 1)Digester tank Capacity-4300Lit. 2)Outer cover high quality material PP sheet coated with polyethylene, BONYL laminated both side, 3)Breaking strength -100Kg/5 cm, 4)Tear strength > 30Kg both directions 5) UV stabilized tested - 9000 Hrs. |

| | | T |
|----|-----------------------|--|
| 12 | Gas Storage tank unit | 1)Gas Tank Capacity-2500Lit. 2)Multilayer polyethylene, polyester and aluminum material for optional strength .3)Breaking strength -100Kg/5 cm, 4)Tear strength > 30Kg both directions,5) UV stabilized tested - 9000 Hrs.6) Sand Bags 56 in No. of 2 Lit. capacity each |
| 13 | Inlet Unit | 1)Four inch diameter pipe with 15 inch length,45 degree elbow, Three quantity 110mm lip seal 2) Sink with 4mm stabilizer rope and Plunger |
| 14 | Outlet Unit | 1) Combined Fertilizer and Gas outlet with 110 mm single lip seal, 4mm Stabilizer Rope 2) gas inlet ,outlet connecting pipe 3) Gas Filter -with activated carbon granules |
| 15 | Gas Pipe System | 1) Ball Valve 2) 20 mm gas tube (14 meter),screw connector and fitting 3) bands for 20 mm gas tubing with straight and L connector 4) 20-10 mm Reducer with 10mm gas pipe (3meter) |
| 16 | Moisture Trap | 1) 20 mm Gas Tubing T- joint 2) 20 mm gas tube screw connector and fitting with Ball valve |
| 17 | Gas Stove (Burner) | 1) Gas stove model- LN600 (Double Burner) 2) Stainless steel body/Carbon coated 3) Dimensions- 600x374x145mm 4) Double burner with >55% heating efficiency |