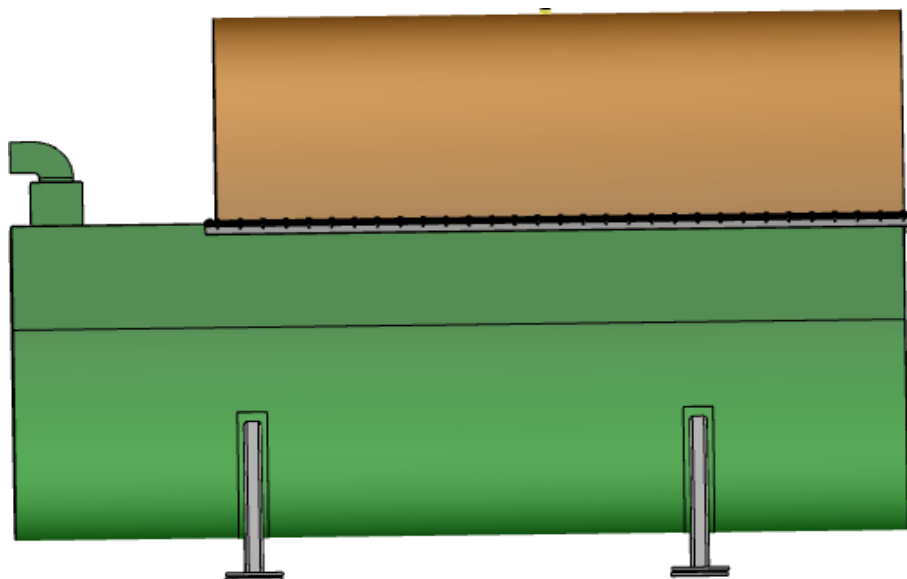
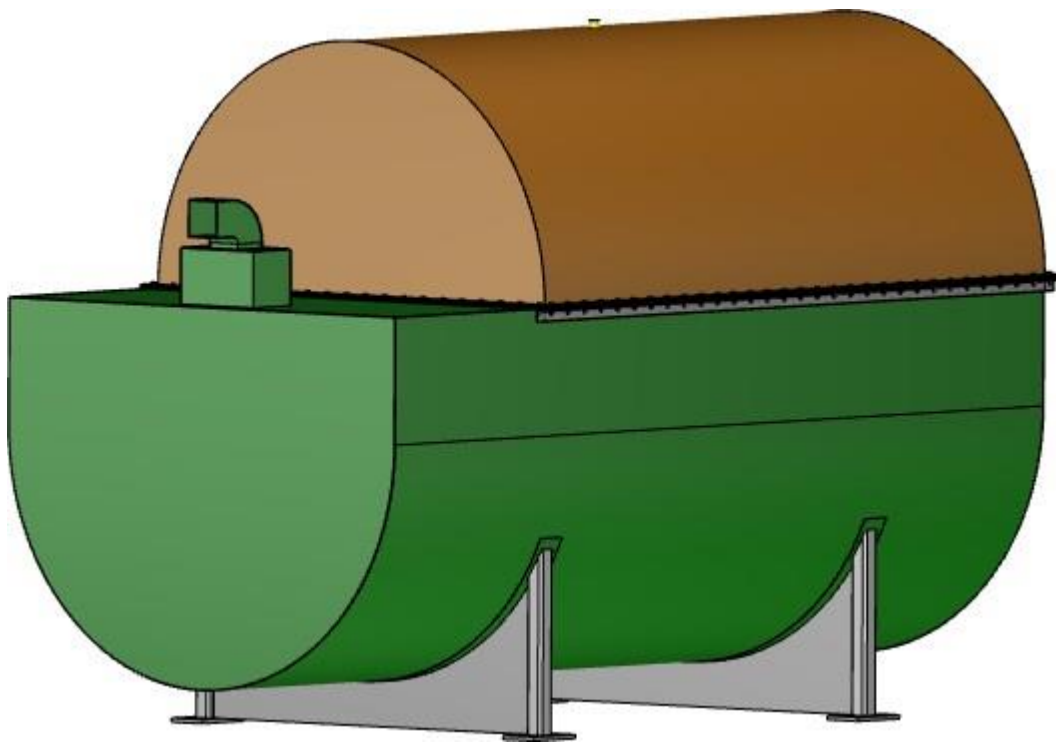




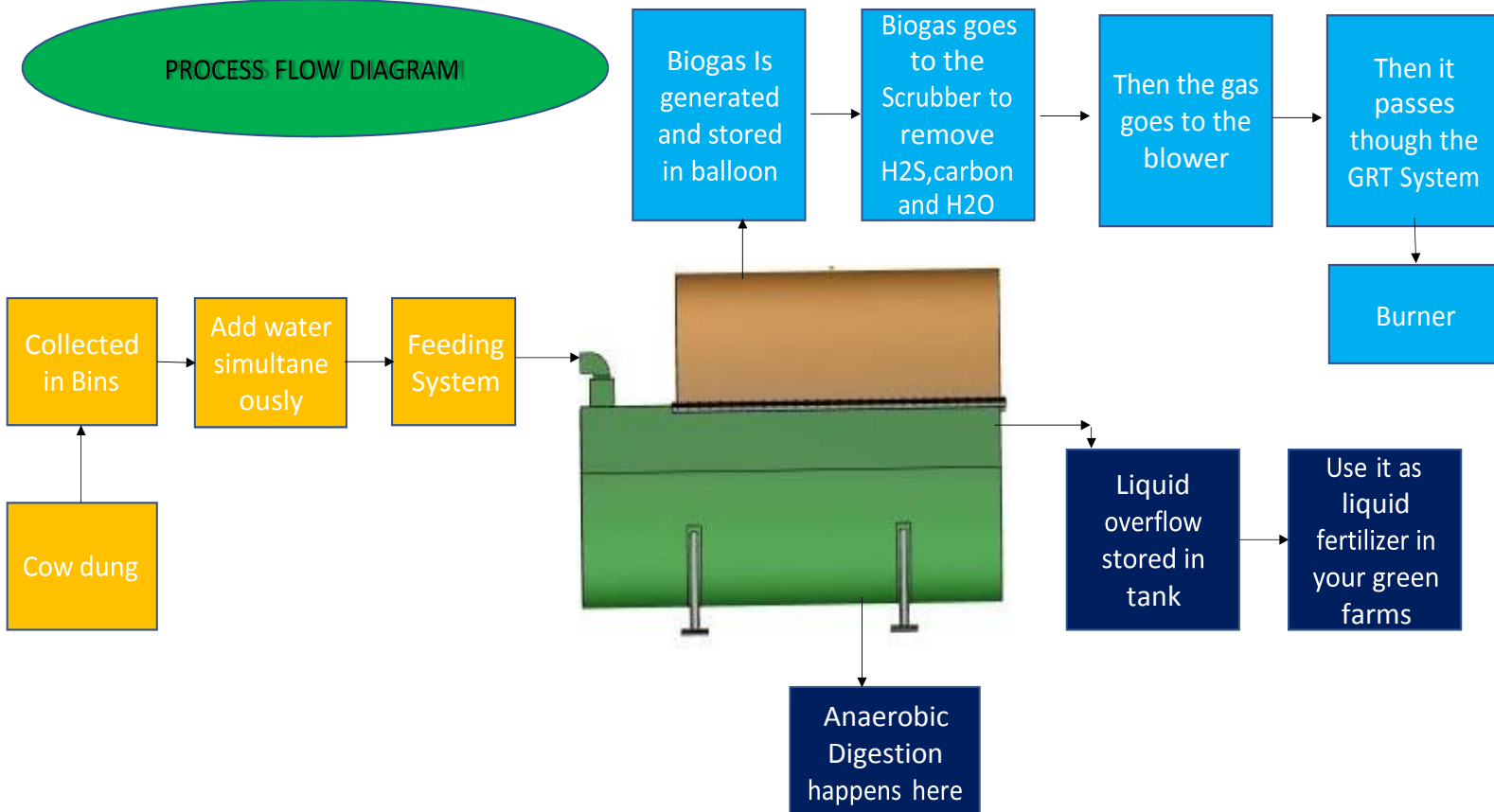
# GREEN TECHNOLOGIES AND ENGINEERS

## EnergyBin-ECO





PROCESS FLOW DIAGRAM





# EBE Specifications

PARTICULARS	EBE-25	EBE-50	EBE-75	EBE-125	EBE-250	EBE-500	EBE-1000	EBE-2000
Waste Processing Capacity (Kg/d)	25	50	75	125	250	500	1000	2000
Dimensions (L x B x H) Mtr. height considered after inflation of balloon	2x1.1x1.6	2.5x1.5x2	3.7x1.5x2	4x2x2.5	5.4x2.5x3	8x3x3.5	10.5x3.2x4.2	13x3.5x5.5
Height of plant After Balloon is Inflated(Mtr.)	1.6	2	2	2.5	3	3.5	4.2	5.5
Height of plant After Balloon is not Inflated(Mtr.)	1.05	1.25	1.25	1.5	1.75	2	2.6	3.8
Electricity Consumed (kWh/d)	1	1.25	1.25	2.5	2.5	4	9	19
Biogas Output (Nm <sup>3</sup> )	2	4	5	10	20	40	80	160
LPG Equivalent Biogas (Kg)	1	2	2.5	5	10	20	40	80
Power Generation Potential (kWh)	2	4	5	10	20	40	80	160
Balloon Capacity(m3)	0.6	1.7	2.6	5	11.4	25	60	100
Empty Weight of the plant(Kg)	650	800	900	1,200	1,650	5,500	8,500	14,000
Gross weight of the plant Filled up(Kg)	2,800	5,000	7,500	12,000	23,000	48,000	89,000	177,000
Sheet Thickness(mm)	3	3	3	3	3	4	5	6
Electric motor(HP)	1	1	1	2	2	3	3	5
No. of Operating hrs. of motor (Hrs.)	1	1	1	2	2	2	3	5
No of days for Retention	40	40	40	40	40	40	35	35
Liquid Manure (liters)	50	100	150	250	500	1000	2000	4000
<b>SAVINGS</b>								
LPG Replace / Annum @ 80 Rs/Kg	28,800.00	57,600.00	72,000.00	144,000.00	288,000.00	576,000.00	1,152,000.00	2,304,000.00
Electricity Produce/ Annum @ 11.5 Rs/kWh	8,280.00	16,560.00	20,700.00	41,400.00	82,800.00	165,600.00	331,200.00	662,400.00
Liquid Manure Manure / Annum @ 15 Paise/L	2,700.00	5,400.00	8,100.00	13,500.00	27,000.00	54,000.00	108,000.00	216,000.00
Disposal Cost / Annum @ 0.75 Rs/kg	6,750.00	13,500.00	20,250.00	33,750.00	67,500.00	135,000.00	270,000.00	540,000.00
<b>HP=0.75 KW=0.75 KWH</b>								
<b>So electricity Consumption/day=HP of the motor*0.75*No of operating hours</b>								
		<b>per annum considered 360 days</b>						

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