

Biogas Unit

Biogas is a renewable energy source produced by certain bacteria breaking down organic matter in anaerobic conditions. The biogas system is where cow dung and urine are mixed with water to form a slurry (raw material for biogas). The slurry is then transferred to the digester (a sealed container that creates anaerobic conditions in which bacteria degrade organic matter), which produces biogas, primarily methane and CO₂. The gas holder collects the biogas. The generated biogas serves as a clean renewable energy source especially for cooking, while the nutrient-enriched slurry becomes valuable organic fertilizer.

Plant specifications:

Plant material – PVC fabric

Thickness – 1100 gsm

Plant capacity – 250kg/per day

Plant volume – 15000 ltr

Mixing tank – 750 ltr

Feeding tank – 150 ltr

Balloon – 5 cubic meter

Balloon volume – 5000 ltr

Balloon material – PVC fabric

Balloon material thickness – 650 gsm

Gas pipe – HDPE pipe (32mm)

