

MATERIAL COST ESTIMATE FOR CONSTRUCTION OF A 10M³ HOUSEHOLD BIOGAS PLANT



The following comprises of materials and equipment cost estimates for the construction of a 10 cubic meter Fixed Dome Biogas Plant:

Cement (24), Sand (7), Ballast (4), Stones (400), Water Proof Cement (4), R6 (1), Waste Pipe 4" (1), Gi Pipe 1" (1), Bricks (400), Binding Wire (1), Paint Brush 6" (1), Dome Pipe (1). See the tabulation.

Material and Equipment Cost Estimates for a 10 Cubic Meter Fixed Dome Biogas Plant

MATERIAL	QUANTITY	UNIT OF MEASUREMENT	COST (KES)
CEMENT	24	BAGS	14,400
SAND	7	TONNES	14,000
BALLAST	4	TONNES	8,000
STONES	400	FEET	14,000
WATER PROOF CEMENT	4	KGS	1,000
R6	1	PCS	900
WASTE PIPE 4"	1	FEET	1,000
GI PIPE 1"	1	1	1,500
BRICKS	400	PCS	4,000
BINDING WIRE	1	KGS	300
PAINT BRUSH 6"	1	PCS	150
DOMES PIPE	1	PCS	4,000
DOUBLE BURNER	1	PCS	7,500
LABOUR CHARGE			60,000
TOTAL			130,750

Terms:

- Labour Charge: Inclusive technical labour
- DIGESTER HOLE: Client to excavate the digester based on the dimensions provisions
- PIPING: Biogas piping and fittings costs estimated after biogas installation
- BRICKS: Molded at the site