

6. Budget Summary

S/No	Name / Category	Description	Amount (₦)
A	Personnel Costs / Allowances	Allowances for Principal Investigator and Research Team Members (2 years)	10,000,000
B	Equipment		
1	Pyrometer	Maximum Temp. 1700 °C	2,000,000
2	Rolling Machine	Eagle Electric Rolling Mill with Gear Box	5,000,000
3	Bending Machine	VOLTZRB-22 Hydraulic Rebar Bender	4,500,000
4	Welding Machine	MIG-120 220v Welding Machine	6,000,000
5	Shearing Machine	Mini Portable Electric Hydraulic Punching & Shearing Machine	3,500,000
6	Metal File	Handy Hardware 3 PCS Metal File	500,000
7	Hammer & Anvil	Metal Stamping Tool Set	400,000
8	Metal Stamp	Metal Stamping Kit	300,000
9	Calipers	Digital Vernier Caliper (0–150mm, stainless steel)	100,000
10	Micrometer	—	200,000
11	Laptop	HP Spectre 13-X360 Convertible, i7, 32GB RAM	2,000,000
12	Hydraulic Press Construction	With metallic moulds	10,000,000
13	Grinding Mill	Grinding Mill with Petrol Engine (6.5hp)	400,000
14	Generating Set	SUMEC Firman SPG 3000 E2, 2.8kW	500,000
15	Brick Kiln	Construction of 30 cubic ft brick kiln	6,000,000
C	Materials		
1	Laterite Clay	36 tonnes	700,000
2	Montmorillonite Clay	36 tonnes	3,000,000
3	Ferruginous Stones	24 tonnes	500,000

4	Stainless Steel Sheet	10 tonnes, 3mm thickness	3,000,000
5	Galvanized Steel Sheet	10 tonnes, 2mm thickness	2,000,000
6	Pot Stand (Steel)	4mm thickness	1,000,000
7	PMS (Petrol)	60 liters	60,000
8	Stainless Steel Receptacle Construction	100 pieces (stove casing)	3,000,000
9	Burnt-Out Materials	200 bags (Gmelina cellulose)	1,000,000
10	Safety Equipment	Gloves, goggles, shoes, overalls	800,000
11	Production Tools	Turning tools, kidney tools, scrapers, boards, spatulas, knives	3,000,000
D	Quality Control & Analysis	Gas emission, spalling resistance, thermal efficiency tests, heat dissipation, ergonomics	5,000,000
E	Dissemination of Results		
E.1	Workshops & Seminars	Two (2) research members, energy-related research	2,000,000
E.2	Publications	Two (2) Scopus-indexed journal publications	1,600,000
E.3	Research & Development Movement	Travel for five (5) research team members	3,000,000
E.4	Community Outreach	Workshops & symposiums in Enugu; distribution of 100 stoves (Umuegwu, Neke – Isi-Uzo LGA)	3,000,000
F	Contingency (5%)	For unforeseen expenses	3,847,500
TOTAL			80,307,500