

Detailed Budget for Commercialization of ZOBOX

Category	Item Description	Estimated Cost (₦)
1. Research & Development (R&D)	Prototype refinement & testing	2,500,000
	Safety certification & regulatory approvals (SON, NAFDAC, patent maintenance)	1,500,000
	Design optimization (scalability for SME/industrial versions)	2,000,000
	Subtotal	6,000,000
2. Production & Fabrication Setup	Procurement of stainless steel, sensors, food-grade components	7,500,000
	Fabrication tools & equipment	3,000,000
	Assembly labor (welders, machinists, technicians)	2,500,000
	Quality assurance & testing	1,500,000
	Subtotal	14,500,000
3. Operations & Logistics	Raw materials for test runs (<i>Hibiscus sabdariffa</i> , sugar, ginger, flavors, bottles)	1,200,000
	Packaging materials (branded sachets/bottles)	800,000
	Power supply (diesel/solar backup)	1,000,000
	Logistics & distribution (demo units, exhibitions)	1,200,000
	Subtotal	4,200,000
4. Human Resources	Lead researcher/PI honorarium (₦250k × 12 months)	3,000,000
	Co-researchers (₦150k × 12 months × 3 staff)	5,400,000
	Project manager/engineer (₦200k × 12 months)	2,400,000
	Fabrication & operations staff (₦100k × 12 months × 3 staff)	3,600,000
	Marketing & sales officer (₦150k × 12 months)	1,800,000
	Subtotal	16,200,000
5. Marketing & Commercialization	Branding, logo, and product design	700,000
	Promotional campaigns (radio, social media, flyers)	1,200,000
	Trade fairs, exhibitions, demo events	1,200,000
	Market research & customer surveys	600,000
	Subtotal	3,700,000
6. Contingency (10%)	Unforeseen expenses	4,460,000
TOTAL		49,060,000