

## Project Budget of the project

Category	Description	Estimated Cost (₦)
Equipment	Reactor system, condensers, distillation columns, gas scrubbers	330,000,000
Catalyst & Regeneration	Initial catalyst charge (ZSM-5, silica–alumina, Ni-based), regeneration unit	120,000,000
Separation Systems	Gas–liquid separators, oil/water separators, filtration units	90,000,000
Feedstock Preparation	Shredders, dryers, feed conveyors	600,000,00
Instrumentation & Control	Sensors, flow meters, temperature/pressure controllers, data acquisition	120,000,000
Utilities & Installation	Piping, insulation, electrical wiring, civil works	165,000,000
Safety & Environmental considerations	Gas cleaning, flare system, emission control, PPE	75,000,000
Laboratory & Testing	Fuel analysis equipment (GC–MS, calorimeters, sulfur analyzer)	105,000,000
Personnel & Training	Salaries for engineers, operators, technicians; training programs	165,000,000
Consumables & Operating Costs (1 year)	Feedstock supply, utilities (electricity, nitrogen), maintenance	105,000,000
Dissemination and Capacity Building	Travels, publications, allowance, workshops and conferences.	90,000,000
Contingency (10%)		136,500,000
<b>Total Estimated Budget</b>		<b>1,501,500,000</b>