

1.0 TITLE:

**CRISPR/CAS9-DRIVEN GENETIC IMPROVEMENT OF SENEGALIA SENEGAL
FOR EARLY FLOWERING MATURITY IN NIGERIA**

SUBMITTED BY

**RUBBER RESEARCH INSTITUTE OF NIGERIA (RRIN) KM 19, IYANOMO, BENIN-
CITY, EDO STATE, NIGERIA**

TO

**NATIONAL AGENCY FOR SCIENCE AND ENGINEERING INFRASTRUCTURE
(NASENI) BASIC RESEARCH GRANT APPLICATION, 2025.**

UNDER THE

NASENI RESEARCH COMMERCIALIZATION GRANTS PROGRAM (NRCGP) 2025

SEPTEMBER, 2025

10. Budget Estimation

10.1 Personnel cost

N70,000,000

10. 2 Equipment and Consumables

Item Description	Quantity	Unit Cost (₦)	Total (₦)	Justification
Laboratory equipment	Lump sum	-	90,000,000	Essential for gene-editing and molecular analysis, ensuring accurate, reproducible, and safe experimental operations.
Molecular reagents & consumables	Lump sum	-	25,000,000	Essential for gene-editing and molecular analysis
Tissue culture & transformation equipment	Lump sum	-	20,000,000	Core infrastructure for genetic transformation
Greenhouse materials	Lump sum	-	10,000,000	Supports controlled environment phenotyping
Field equipment	Lump sum	-	5,000,000	Enables field validation across gum belts
Gum quality analysis equipment	Lump sum	-	5,000,000	Vital for physical, chemical analysis and quality assurance
15 KVA Solar Power System for Gene Editing Laboratory	Lump sum	-	35,000,000	To ensure stable and lasting power for important equipment and smooth work in the Gene Editing Laboratory.
Subtotal			225,000,000	

10.3 Travels and Logistics

Item Description	Quantity	Unit Cost (₦)	Total (₦)	Justification
Local travel to field sites	12 trips	500,000	6,000,000	Supports field monitoring, data collection, supervision
Stakeholder meetings & farmer training workshops	6 events	2,000,000	12,000,000	Engages farmers, processors, policymakers for adoption
Conference participation (Local and/or international).	6 trips	8,000,000	48,000,000	Dissemination of results and knowledge sharing
Subtotal			66,000,000	

10.4 Contingencies

N35,000,000.00

10.5 Summary of cost

Item	Cost (N)
Personnel	70,000,000
Equipment and Consumables	225,000,000
Travels and logistics	66,000,000
Contingencies	35,000,000
Total	396,000,000

Grand Total= Three Hundred and Ninety-Six Million [**₦396,000,000**].