

Appendix 1: SciInnovTec Research Performance Indicator Matrix (M&E)

No.	Performance Objectives	Key Inputs	Key Outputs	Overall Outcomes
1.	Utilize modified process in two production path (POWDER & PASTE) to develop RUTF and RUSF using 100% local ingredients/produce	- Utilize two different processing path - 1) to achieve a Paste product, 2) to get a ready to eat powder product	- Number of stable composite mixes in each category	Number of prototype product produced
2.	To determine physico-chemical properties, microbial safety, sensory assessment, and preliminary storage and safety of the prototypes	- Number of ingredients and product samples subjected to analysis for general physico-chemical properties, microbial safety information - Train mothers for sensory assessment testing - Assess product safety	- Data on ingredients used in the development of products, and composite mix products - 50 trained mothers specifically for RUTFs, data of mother's assessment of products - Data on product safety	Data established on ingredients and products developed Established group of women for product sensory testing studies
3.	To determine the nutrient composition of products in meeting the energy density and daily nutrient intake for MAM, SAM and growth faltering children of 6 - 59months.	- Number of products subjected to analysis products for RUTF specification for energy-density and daily nutrient uptake	- Data of products analyzed and degree of specification or standard met	Established information on locally produced RUTF quality in comparison to expected UNICEF / WHO standards
4.	Determine safety and stability of products under local conditions.	- Number of products subjected to post production safety and product stability testing	- Data on products subjected to post production safety and product stability testing	Established information on locally produced RUTF safety
5.	Conduct cost analysis of RUTF prototypes in comparison to existing products	- cost value of ingredient, processing, and other factors in production	- Data on prototypes and market products	Established cost analysis information on product
6.	Establish strategic value and supply chain (VSC) of raw ingredients to meet production demand	- Identification of farmers for the value and supply chain (VSC) development - Mini workshop with identified farmers on production, storage, crop quality and ingredient standards etc.	- Number of farmer participants in the RUTF value and supply chain - Understanding of RUTF crop needs in the VSC	Developed VSC specifically for RUTF production in Sierra Leone. Identified farmers in the VSC only for RUTF
7.	Mini Consumer study with 100-120 mothers	Preparation of field study Training of field staff Selection of study sample	Assessment of prototype Data collected on formulated prototypes	Processed data with information of consumer perception of prototypes