

Appendix 2: Risk Assessment in RUTF Project Implementation

No.	Key Areas	Potential Risk	Assumptions	Mitigation plan
1.	Processing and development of RUTF using 100% local ingredients/produce	<ul style="list-style-type: none"> -Getting the needed produce in sufficient quantities -Low/poor quality grade or infected produce - Order and purchase of critical equipment - Equipment breakdown can cause delays and push timelines back 	<ul style="list-style-type: none"> -Problem getting consistent reliable needed quantities - Farmers or sellers will sell anything with no attention to the quality - Supplier delays that can push project timeline back 	<ul style="list-style-type: none"> -Have legal binding supply agreement in place with suppliers -Ensure produce check at point of purchase before packaging and put critical emphasis on quality. - Clearly communicate to supplier urgency on equipment need that is time bound - ensure maintenance and care of equipment
2.	Sensory Training and Testing	<ul style="list-style-type: none"> - occasional low turn up or drop out of panel members during testing sessions 	<ul style="list-style-type: none"> -availability of panel members can be affected by any number of issues including personal, work, family, traveling etc. 	<ul style="list-style-type: none"> -always train more panelist than needed so any dropping out or missing two consecutive sensory sessions can be replaced
3.	Analysis - physico-chemical properties, microbial safety, sensory assessment, and preliminary storage and safety of the prototypes	<ul style="list-style-type: none"> - Delays in analysis, stalls data analysis and needed report for next phase 	<ul style="list-style-type: none"> - Sample load for analysis prior to ours can cause delays - lab accidents, equipment breakdown for any number of reasons can affect sample analysis - Other unexpected or unknown lab issues can cause critical delays 	<ul style="list-style-type: none"> - Have alternate lab notified for analysis - Clearly communicate from onset time bound nature of projects, establish or agree on deadlines for results output that impacts payment
4.	Analysis - Nutritional composition of products in meeting the energy density and daily nutrient intake for MAM, SAM and growth faltering children of 6 - 59months.	<ul style="list-style-type: none"> - Delays in analysis, stalls data analysis and needed report for next phase 	<ul style="list-style-type: none"> - Same as in no. 2 above 	<ul style="list-style-type: none"> - Same as in no. 2 above
5.	-Determine safety and stability of products under local conditions.	<ul style="list-style-type: none"> - Delays in analysis, stalls data analysis and needed report for next phase 	<ul style="list-style-type: none"> - Same as in no. 2 above 	<ul style="list-style-type: none"> - Same as in no. 2 above
6.	-Conduct consumer acceptability and perception study of product prototypes with target group.	<ul style="list-style-type: none"> -Delays in getting ethical clearance can stall execution of study and data analysis for report development -Having sufficient product for testing impacts study 	<ul style="list-style-type: none"> - declined if all conditions are not met or proper documentation not done -Low quantity availability due to seasonal effects; -Transportation of produce to processing center 	<ul style="list-style-type: none"> -Submit ethical clearance request with proper documentation at least 3-4 months in advance of anticipated study execution date -Purchase sufficient quantities and store - Establish farmer or supplier contact in year 1 to ensure supply in year 2
7.	-Establish strategic value and supply chain (VSC) of raw ingredients to meet production demand	<ul style="list-style-type: none"> - Low farmer participation if purpose and expectations are unclear 	<ul style="list-style-type: none"> -Possible problems if farmer lead/head is not transparent about the project and process -Affects farmer participation or getting farmers together -Unwillingness to sell produce at a standard prize 	<ul style="list-style-type: none"> -Clearly express the purpose of the project, the need for farmers participation and impact, with emphasis to meet with all participants from the onset