

Budget (N49, 466, 873.96).

Budget Categories				
	Items	Cost (N)	Justification	Total (N)
1.0. Personnel cost	1.1. Principal Researcher	1,937,644.34	The enormous task before us demands we should not hit the ceiling of 20% usually given for personnel cost in such projects. Our personnel cost is rather at 19.35 % of the budget. It was a mutual agreement of team members to follow our University Post graduate supervision emolument. The PI will receive 28% of total allocation, technical support will receive 7% and research assistants 3%. The cost will be paid quarterly after each report/quarterly meetings hence regularity of quarterly meetings will be ensured.	
	1.2. Team members (8)	4,290,498.17		
	1.3. Technical support (3)	484,411.085		
	1.4. Others (Research Assistants) (2)	207, 604.751		
Subtotal				7, 640,000

2.0	Equipment (List & Specify)			
	10 Locally fabricated dark cages with metal stand for BSF	N880,000	Local fabrication will suit our home situation rather than imported ones designed for temperate climate	
	10 Local made Love cages with stand	N570,000	Local fabrication will suit our home situation rather than imported ones designed for temperate climate	
	20kg Capacity Solar dryer 9CT-CGQXW) (1)	N830,000	Drying of the larvae	
	Grinding/Milling machine	–	Milling of the larvae into mill and milling of broiler and layers mash	Available in the In the Institution
	Hammer mill	–	Crushing of bones and oyster shell aimed at supplying phosphorus and calcium into the feed	Available in the Institution
	Horizontal Poultry Feed Mixer (Star 300 BM) (1)	N1, 556, 737.50	For proper mixing of feed before bagging	
	Generator Thermocool 75 KVA (Optima 9200RS)	N520,000	To supply light in case of power outage	
	Lap top (8GB Ram)	N825, 000	Record of all research data,	

			analysis and farmers training schedule	
	Industrial weighing scale	N412, 639.22	Weighing of feed ingredient supply and utilization	
	Screw Press Dewatering machine	N737, 825.90	Dewatering of water-soaked organic waste	
	Locally fabricated separator (Vibrating machine)	N700,000	Separation of larva from frass	
	Hand sewing machine for bags	N120,000	Sewing of 255kg bagged feed	
	Automatic 25Kg Bagging machine	N4, 000,000	To ensure 25kg fill in each 25Kg feed bag	
Subtotal				N11, 152,202.62
3.0	Consumables			
	Upgrade of Farm house and electric wiring	N1, 025, 000	Necessary for the BSF rearing	
	Update on literature	N150,000	To access some literature that require payment before opening	
	Foundation stock attractant	N40,000	To attract foundation BSF larvae stock	
	Logistics for transportation of organic wastes 30 tipper loads @ N50,000 /trip	N1,500,000	Organic waste that needs to be transported from fruit and vegetable market to the farm	

	Bags for collection of organic wastes and bagging + Logistics on loading and off-loading and 25kg bags to be used for feed	N850,000	Just as stated in the column	
	Organic wastes treatment (Sorting and Dewatering)	N360,000	Very important to remove all unwanted materials, tins, bottles and plastics ((All non-degradable) must be removed and water drained before use	
	Rearing Crates (Lararium) 120 pieces at N9000 each + Logistics for delivery	N1, 080, 000	To be purchased from vendors in Nigeria	
	Connection of Lighting system to love cages	N55,000	Adult black soldier fly can only MATE in the presence of light	
	Eggies 50 @N2000 each	N100,000	Provide platform (Cracks and crevices) in which adult female lay their eggs	
	Multifuunctional Click Counter (30) @ N3450 each	N93,500	Counting of 5-Day old larvae	
	250 Day Old Chicks @N2000/chick	N500,000	For assessment of feed quality in improving broiler performance	
	Larval based broiler starter	N270,000	To be fed to	

	mash (15 of 25kg bag @N18,000 /bag)		broiler chicks for performance assessment	
	Larval based broiler Finisher mash (35 of 25kg bags @ N15,000/bag)	N525,000	To be fed to broiler finishers for performance assessment	
	150 Day old pullets @ N1800/pullet	N270,000	To be used for assessment of egg laying performance	
	Larval based Chick starter Mash ((15 of 25kg bag @ N14,000 bag)	N210,000	To be fed to chicks (pullets) for performance assessment	
	Larval based Grower mash (131 of 25kg bag N13,500/bag	N1, 768,500	To be fed to growers (pullets) for performance assessment	
	Larval based Layers mash (378 of 25kg bag @ N15,500.bag)	N5,849,000	To be fed to layers for egg laying performance and egg quality assessment	
	Boots for workers (10) @N9000 each	N90,000	To be worn while collecting organic waste	
	Hand trowel (10)@ N2500 each	N25,000	Scooping of organic wastes into smaller lavarium	
	Shovels 10 @N9500	N95,000	Scooping of organic wastes into large sized lavarium	
	Wheel barrow (2) @ N55,000	N110,000	Collection of	

			organic wastes from depot to treatment unit	
Subtotal				15, 106, 000
4.0	Data Collection and Analysis			
	Proximate and mineral composition of Black soldier fly larval meal	N350,000	Assessment of nutrient composition	
	Proximate and mineral composition of Experimental diets	N350,000	Assessment of nutrient composition	
	Proximate and mineral composition of broiler meat	N350,000	Assessment of nutrient composition	
	Organoleptic properties and meat acceptability	N230,000	Acceptability test	
	Organoleptic properties and egg acceptability	N230,000	Acceptability test	
	Amino acid analysis of larval meal	N555, 000	To assess Amino acid profile of larval meal as a feed ingredient	
	Amino acid analysis of experimental diets	N555,000	To assess Amino acid profile of experimental diets	
	Amino acid analysis of broiler meat	N555,000	To assess Amino acid profile of broiler meat	
	Amino acid analysis of egg	N555,000	To assess Amino acid profile of egg	

Sub total				N3, 730, 000
Travels				
	Nigerian Institute of Animal Science and Animal Science Association of Nigeria Conference	735,000	Conference attendance is important for our findings to be presented, criticized and put in a form acceptable to high impact Journal	
	Nigerian Society of Animal Production Conference	756, 000	“	
	Local transportation	300,000	A lot of local transportation for purchases, survey and baseline studies will be involved in the project	
Subtotal				N1,791,000
6.0	Dissemination			
	Workshop/ Seminar	N 850,000	Very important for practical training on mushroom and APW production as a skill for economic empowerment as this will help them to adopt the novel product	
	Radio programme	N 540,000	Advert for the new noodle including	

			jingles	
	Journal publication	N 135,000	Publication charge of two papers from our work	
	Television programme	N 600,000	Advert for the new noodle including jingles	
	Module production	N1,225, 000		
	Infographics, Public awareness with posters, pictographic handbills,	N 560,000	Advertisement strategy	
Sub total			Dissemination is at 2.86%, this will ensure creation of public awareness	N3,910,000
	Others/Miscellaneous (Specify)			
	Monitoring and Evaluation	1,072, 892.77	The project will involve serious monitoring and evaluation, so the cost must be part of the budget	
	Base line Chemical Analysis of conventional poultry feed (Broilers and layers)	1, 000, 800	The work will involve of a lot of analysis from the base line to analysis of nutritional composition of product and shelf life	
	Contingency	1,788, 154.61	The contingencies	

			will be under low risk though consideration was given to the fluctuations of prices resulting from Nigerian inflationary situation	
	Sub total			N3,861, 847.38
	Total Direct Cost			
	INDIRECTI COST Component of Direct Cost) to Institution		For University support	2,275,823.957
	Grand Total			N49, 466, 873.96