



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
AFRICA CENTER OF EXCELLENCE IN SUSTAINABLE USE OF INSECTS AS FOOD AND FEEDS

QUARTER 3 QUARTERLY REPORT

JANUARY TO MARCH, 2022

IDA CREDIT 5798-KE

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1. INTRODUCTION

This is the Quarterly Report of the Africa Center of Excellence in Sustainable Use of Insects as Food and Feeds (INSEFOODS) of Jaramogi Oginga Odinga University of Science and Technology (JOOUST). It covers the period January to March 2022. It follows the report format developed by the ACE II Project National Steering Committee (NSC) Secretariat. It attempts to capture the status of progress and achievement by the Project's Disbursement Linked Indicators (DLIs) and Disbursement Linked Results (DLRs).

2. PART I: PRELIMINARIES

a. Name of Institution	Jaramogi Oginga Odinga University of Science and Technology (JOOUST)
b. Name of Africa Center of Excellence	Africa Center of Excellence in Sustainable Use of Insects as Food and Feeds (INSEFOODS)
c. Date of Signing of the Financing Agreement	4 th July 2016
d. Date of Signing of the Subsidiary Grant (Performance) Agreement	27 th October 2016
e. Date of Credit Effectiveness	1 st February 2017
f. Period of Reporting	From 1 st January to 31 st March, 2022

3. PART II: IMPLEMENTATION PROGRESS MATRIX FOR DLIs AND DLRs

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
DLI #1: Institutional readiness	DLR#1.1: Completion of Effectiveness Conditions	All conditions for effectiveness outlined in the legal agreements signed between the ACE hosting government (Kenya) and the World Bank has been fulfilled.	1	100	1	100%	Achieved during 1 st Quarter 2017; Received disbursement of US\$ 600,000.
	DLR#1.2: Development of the Project Implementation Plan	Detailed Implementation Plan of INSEFOODS was approved by the Ministry of Education Department for University Education as part of the Performance Agreement	1	100	1	100%	Achieved by the 1 st Quarter 2017; Received disbursement of US\$ 500,000.
DLI #2: Excellence in education and research capacity and development impact	DLR #2.2: Newly enrolled students in the ACE of which at least 20% must be regional (African) students.	2.2.1 Newly enrolled students into Masters level programmes					
		2.2.1.1 Total	0	0	0	0	
		2.2.1.2 National Male	0	0	0	0	None in the quarter
		2.2.1.3 National Female	0	0	0	0	None in the quarter
		2.2.1.4 Regional Male	0	0	0	0	None in the quarter
		2.2.1.5 Regional Female	0	0	0	0	None in the quarter

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
		2.2.2 Newly enrolled students into Doctoral level programmes					
		2.2.2.1 Total	0	0	0	0	
		2.2.2.2 National Male	0	0	0	0	None in the quarter
		2.2.2.3 National Female	0	0	0	0	None in the quarter
		2.2.2.4 Regional Male	0	0	0	0	None in the quarter
		2.2.2.5 Regional Female	0	0	0	0	None in the quarter
		2.2.3 Newly enrolled students into Short Courses programmes					
		2 short courses already developed; Cricket production, rearing and processing and Black soldier fly production, rearing and processing.					
		2.2.3.1 Total	0	0	0	0	
		2.2.3.2 National Male	0	0	0	0	Students and community members to be trained in Q3
		2.2.3.3 National Female	0	0	0	0	Students and community members to be trained in Q3
		2.2.3.4 Regional Male	0	0	0	0	Students and community members to be trained in Q3
		2.2.3.5 Regional Female	0	0	0	0	Students and community members to be trained in Q3
	DLR#2.3: Accreditation of quality of education	2.3.1 Masters level programs Nationally	0	0	0	0	Target Achieved in 2020/2021 financial year. The data

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
	programs	Accredited					submitted for verification
		2.3.2 Masters level programs Regionally Accredited	0	100	0	0	Dropped
		2.3.3 Masters level programs Internationally Accredited	0	100	0	0	Centre has contacted AQAS to facilitate the process
		2.3.4 Doctoral level programmes Nationally Accredited	0	0	0	0	Achieved in 2020/2021 financial year. Data submitted for verification
		2.3.5 Doctoral level programmes Regionally Accredited	0	100	0	0	Dropped
		2.3.6 Doctoral level programmes Internationally Accredited	1	100	0	0	Centre has put strategies to achieve it by engaging AQAS
		DLR#2.4: Partnerships for collaboration in applied research and training	2.4.1 MOUs with public institutions/civil society	1	100	1	100
		2.4.2 MOUs with private sector/industry	0	0	0	0	Not planned for in this quarter
	DLR#2.5: Peer-reviewed journal papers or peer-reviewed conference papers	2.5.1 Papers accepted by a peer-reviewed journals with regional author (s)	0	0	1	0	DLR fully achieved but students and faculties still going on with publications.
		2.5.2 Papers accepted by	0	0	0	0	Students have commenced

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
	prepared collaboratively with regional or international co-authors	a peer-reviewed journals with international author (s)					publication from their research work and more expected in next quarter
		2.5.3 Accepted peer-reviewed conference papers with regional author (s)	0	0	0	0	Students have commenced publication from their research work and more expected in next quarter
		2.5.4 Accepted peer-reviewed conference papers with international author (s)	0	0	0	0	Students have commenced publication from their research work and more expected in next quarter
		DLR#2.6: Faculty and PhD student exchanges to promote regional research and teaching collaborations	2.6.1 "Periods" (at least 2 weeks) of Faculty Exchanges within country	4	100	3	200%
		2.6.2 "Periods" of Faculty Exchanges outside country but within region	1	100	2	100%	2 Incoming faculties came for exchange program
		2.6.3 "Periods" of Faculty Exchanges internationally, outside	0	0	0	0	

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
		the region					
		2.6.4 "Periods" of PhD/MSc Student Exchanges within country	10	100	2	40%	2 students went for exchange program
		2.6.5 "Periods" of PhD/MSc Student Exchanges outside country but within region	0	0	0	0%	None during the period under review. Planned for next quarter
		2.6.6 "Periods" of PhD Student Exchanges internationally, outside the region	0	0	0	0	None during the period under review. Planned for next quarter
	DLR#2.7: External revenue generation	2.7.1 Amount of externally generated US\$ from national sources	25,000	100	300	1%	
		2.7.2 Amount of externally generated US\$1 from regional and international sources	25,000	100	66,305.22	265.20%	A total of Kes 6,630,021.74
	DLR#2.8: Institution participating in benchmarking exercise	2.8.1 Participation in the Partnership of Applied Sciences, Engineering	0	0	0	0	Achieved in the 1 st Quarter 2021/2022 and Applied for withdrawal disbursement of US\$ 100,000.

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
		and Technology (PASET) benchmarking exercises					
DLI	DLR	Brief Notes					
DLI#3: Timely, transparent and institutionally reviewed Financial Management	DLR#3.1: Timely Withdrawal Applications supported by interim unaudited financial reports	Withdrawal application done timely					
	DLR#3.2: Functioning Audit Committee under University	Report annexed: Annex I					
	DLR#3.3: Functioning internal audit unit for University	Minutes from the Internal Audit Unit annexed: Annex II					
	DLR#3.4: Transparency of financial management (audit reports, interim unaudited financial reports, budgets and Annual Work Programs are all web accessible)	The INSEFOODS Web site (http://insefoods.jooust.ac.ke/) Created and uploaded Project Documents including the Annual Work Plan, Budget, Implementation Plan, interim unaudited report and all project documents.					
DLI#4: Timely and audited	DLR# 4.1: Timely procurement	Center received PPRA Audit Report for the period ended 30 th July 2021 and responded accordingly to the questions raised. Awaiting final report for submission for verification					

DLI	DLR	Activities	Targets		Achievements		Notes
			No.	%	No.	%	
Procurement	audit report						
	DLR#4.2: Timely and satisfactory procurement progress report	Procurement progress reports Annexed. Annex III					

4. NOTES TO THE QUATERLY REPORT

4.1 Institutional Readiness

The date of Credit Effectiveness was 1st February 2017. The disbursement of US\$ 1.1 million due for the achievement of the DLI #1 in terms of DLR#1.1 (US\$ 600,000) and DLR#1.2 (US\$ 500,000) was received into JOOUST Bank Account for the ACE II Project on 9th June 2017. The bank account name is: *Jaramogi Oginga Odinga University of Science and Technology ACE II Project*, at the Equity Bank Bondo Branch.

4.2 Timely Annual Implementation of Plans

Annex 5.9 Table 1 provides Annual Work Plan by Activities, Timing by Quarter, Budget and the status of implementation by the 3rd Quarter.

4.3 Newly Enrolled students

4.3.1 Virtual research concept defense

A total of 31 Cohort 4 students defended their research concepts and are currently working on their research thesis.

4.4 Graduation fee support

The Center paid the graduation fee for students who are awaiting graduation on 22nd April 2022.

4.5 Cohort 3 Ethical Review support

The Center facilitated Cohort 3 Ethical Review Committee fee payment in March 2022.

4.6 Short Course Training

The Center facilitated short course training on cricket rearing and value addition where a total of 42 farmers were trained within the quarter during JOOUST community extension service from 19th to 21st and Maseno Farmers training from 7th to 11th March 2022.

4.7 Partnerships and Agreement development

JOOUST finalize the process of developing and signing of Partnership Agreement and MOU with the University Of Development Studies Of Ghana.

4.8 Students and staff exchanges Program

During the Quarter, five (5) members of academic staff (4) incoming faculties and two (2) students participated in the staff exchange program indicated in the following table. The purpose of this exchange was to enhance the capacity of faculty in line with the requirement of the World Bank towards the achievement of DLR 2.6 on Faculty and Students Exchange.

Table 2. Academic Staff Exchange Programme

Name of staff member	Institution of exchange	Purpose
1. Dr. Richard Mukabana (Visiting Scholar)	From UON 24 th Jan – 7 th Feb 2022	<ul style="list-style-type: none"> • Develop joint academic publications • Mentor postgraduate students • Present seminars.
2. Dr. Ruth Ngandze (Visiting Scholar)	From Chinhoyi University of Science and Technology 1 st Feb – 16 th Feb 2022	<ul style="list-style-type: none"> • Develop joint academic publications • Mentor postgraduate students • Present seminars.
3. Dr. Mary Oyunga (Visiting Scholar)	From KALRO, Kisumu 7 th - 20 th Feb 2022	<ul style="list-style-type: none"> • Develop joint academic publications • Mentor postgraduate students • Present seminars. • Guest Lecturer
4. Dr. Liyala Samwel	From USIUA 24 th Jan – 6 th Feb 2022	<ul style="list-style-type: none"> • Develop joint academic publications • Mentor postgraduate students • Present seminars. • Guest Lecturer
5. Dr. Joshua Agolla	UON January 17 th – February 1 st 2022	<ul style="list-style-type: none"> • Develop joint academic publications • Mentor postgraduate students • Present seminars. • Guest Lecturer

Table 3. Students Exchange Programme

Name of staff member	Institution of exchange	Purpose
1. Susan Milongo	UON 7 th – 21 st February, 2022	<ul style="list-style-type: none"> • Access to research equipment and facilitate available at hosting institutions
2. 1.Ms. Adeline Tariro	UON 7 th – 21 st February,	<ul style="list-style-type: none"> • Access to research equipment and facilitate available at hosting institutions

	2022	
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4.9 External Revenue Generation

A total of Kes 6,630,021.74 was received in the quarter as indicated. The Michael J. Fox Foundation Kes 3,134,227.34 and University of Southampton Kes 3,495,794.40.

4.10 Development of Post Graduate Program in Climate Change and Gender Mainstreaming

The Center facilitated the development of a new postgraduate program MSc in Climate Change and Gender Mainstreaming from 14th to 17th March 2022.

4.11 Africa Center of Excellence National Steering Committee (NSC) visit

The ACE II National Steering Committee visited JOOUST on 31st January 2022 to monitor the progress of the project. The sustainability strategy for the Centers was discussed.

4.12 IUCEA visit

The Inter-University Council of East Africa (IUCEA) visited JOOUST ACE-II project on 15th March 2022 during their retreat in Kisumu. They were updated on the project progress and strategy to ensure achievement of 100% withdrawal and sustainability.

4.13 The DAAD In-Country/Inter region scholarship Host Institution programme

The Center received feedback from DAAD that the institution proposal to be the host for MSc in Food Security and Sustainable Agriculture program proceeded to the final evaluation. The team met on 25th March 2022 to prepare for the final interview on 29th March 2022. The center is awaiting results of evaluation.

4.14 Supervisor capacity building workshop

The Center facilitated a meeting on 24th to 25th February 2022 conducted a capacity building workshop for the supervisors. During the meeting, review of academic progress of the INSFOODS supported students was conducted. Recommendations were made on how to enhance completion rate of students.

4.15 KeNIA visit

The Kenya National Innovation Agency KeNIA visited JOOUST from 17th to 18th March 2022 to help institution in development of innovation strategy. The KeNIA team interviewed INSEFOODS team and later visited the insect farm, fingerlings farm and foodlab.

4.16 PPRA Audit Report response

The PPRA team submitted report in response to audit conducted from 18th to 21st October 2021 for the financial year 2020/2021 audit to facilitate verification of DLR 4. The Center responded to the questions raised by the team and awaiting final report.

4.17 Annual Work Plan Review meeting

From 18th to 20th March, 2021 the Center team developed the 2022/2023 annual work plan and strategies to ensure 100% achievement of DLRs. The document was then shared with the University Management Board and the Center Advisory Board for further consideration.

4.18 Commercialization and income generation

The Center facilitated registration of the traded mark "JUSTER FOODS" within the quarter.

4.19 KEBS nutritional Value Analysis

The Center facilitated KEBS nutritional value analysis of cricket biscuits which is a requirement in commercialization of the products.

4.20 Establishment of Insect repository

The Center in collaboration with the National Museum of Kenya finalized the establishment of Insect Repository at JOOUST. The team from NMK completed the works from 7th to 12th February 2022.

4.21 Phase II Project Development

The ACE II Centers in Kenya met from 10th to 13th February 2022 to review the Phase II proposal based on the treasury feedback for further consideration by World Bank. The concept was submitted to MoE for further review.

4.22 Virtual meeting on Commercialization of research

The Center participated in the virtual meeting on commercialization of research funds on 27th March 2022. The World Bank team in collaboration with CHITOSE GROUP organized a lecture for all ACEs/RSIFs members to promote university-based business/enterprise. The key questions discussed were; how can we promote the research which leads to business? What kind of action are needed for the commercialization?

4.23 Re-certification Audit to ISO 9001:2015

The Center participated in the Division of RIO Audit Re-certification to ISO 9001:2015 on 9th March 2022 and later in the Division training on ISO 9001:2015.

5. PART III: ANNEXES

5.1 AUDIT REPORTS

Annexed

5.2 EXTRACT OF MINUTES OF AUDIT COMMITTEE COVERING ACEII PROJECT

Annexed

5.3 FINANCIAL REPORTS

Annexed

5.4 MEMORANDUM OF UNDERSTANDING (MOUs) ON PARTNERSHIPS

5.5 PROCUREMENT AUDIT REPORT

5.6 PROCUREMENT PROGRESS REPORT

Annexed

5.7 LIST OF ACCREDITED ACADEMIC PROGRAMMES UNDER THE ACE II PROJECT

5.8 LIST OF LECTURERS AND ACADEMIC QUALIFICATIONS FOR EACH ACADEMIC PROGRAMME UNDER THE ACE II PROJECT.

The list of lecturers and academic qualifications for the Masters and Doctoral programmes are included in each programme document and was reported in the Final Quarter Report.

5.9 INSEFOODS YEAR 5 IMPLEMENTATION PLAN

Table 1. Work Plan for the Fifth Year 2021/2022: Activities by Quarter, Budget and Activity Implementation Status

EASTERN AND SOUTHERN AFRICA CENTERS OF EXCELLENCE (ACE II)						
AFRICA CENTER OF EXCELLENCE IN SUSTAINABLE USE OF INSECTS AS FOOD AND FEEDS (INSEFOODS) DETAILED ANNUAL WORK PLAN 2021-2022						
ACTIVITY NAME	Q 1	Q 2	Q 3	Q 4		Remarks
1.0 Strengthen Education Capacity (excellence) and development impact						
1.1 Develop new relevant multidisciplinary MSc. Agricultural Extension, MSc. Insect Science and PhD Agricultural Extension curricula and regular reviews						
1.2 Benchmark and obtain accreditation for MSc and PhD curricula					1,200,000.00	
1.2.1 Facilitate National accreditation of MSc. (AgEx)						
1.2.2 Facilitate National accreditation of PhD. (AgEx)						
1.2.3 Facilitate National accreditation of MSc. Applied Insect Science						
1.2.4 Facilitate National accreditation of PhD. Applied Insect Science						
1.2.5 Facilitate Benchmarking with regional Stds for MSc. Food Security Curriculum with Univ. of Ghana						
1.2.6 Facilitate Benchmarking with regional Stds for PhD. Food Security Curriculum with Univ. of Ghana						
1.2.7 Facilitate National accreditation of Msc Innovation & sustainable Development	X					Internal process being finalized before forwarding to CUE

1.2.8 Facilitate National accreditation of PhD Innovation & sustainable Development	X					Already Accredited in Q 1, the Centre to submit accreditation letter for verification
1.2.9 Facilitate National accreditation of MSc Planning and Design	X					Already Accredited in Q 1, the Centre to submit accreditation letter for verification
1.3 Rehabilitate and upgrade teaching and learning facilities					51,500,000.00	
1.3.1 Rehabilitate laboratory						
1.3.2 inspection and certification	X		X			Done on need base
1.3.4. Calibration of lab machines	X					Done on need base
1.3.3. Rehabilitate Lecture Rooms	X					To be undertaken in Q4
1.3.5. Rehabilitate Main Conference Room (EACII)						
1.3.6. Furnish Student Accommodation						
1.3.7. Furnish Main Conference Room (EACII)						
1.3.8 Furnish Lecture rooms						
1.3.9 Facilitate Access for Physically challenged	X					Procurement process underway
1.3.10 Furnish Conference Hall (Council Board Room – Lab Complex)						
1.3.11 Installation of cooker stations(new lab)						
1.3.12 Construction of Centre of Excellence		X	X	X		Design finalized and approved by Council.
1.4 Set up a grants management scheme and allocate research funds					43,794,000.00	
1.4.2 Allocate Research fund to Masters students						
1.4.3 allocate Stipend to Regional Masters students Cohort 1						
1.4.4 allocate Stipend to Regional PhD students Cohort 1	X	X	X	X		On going
1.4.5 allocate Stipend to National Masters students Cohort 1						

1.4.6 allocate Stipend to National PhD students Cohort 1						
1.4.7 Allocate Research funds PhD students Cohort 1						
1.4.8 Allocate Research funds to Faculty						
1.4.9 Allocate funds towards lab instrumentation						
1.4.11 Allocate funds towards Regional students Insurance Cohort 1						
1.4.12 Allocate funds to scholarship for Msc students Cohort 1						
1.4.13 Allocate funds to scholarship for PhD students Cohort 1	X	X	X	X		Disbursed on progress basis
1.4.14 Allocate Research fund to Cohort 2 Masters students						
1.4.15 allocate Stipend to Cohort 2 Regional Masters students						
1.4.16 allocate Stipend to Cohort 2 Regional PhD students	X	X	X	X		Stipend disbursed on a monthly basis
1.4.17 allocate Stipend to Cohort 2 National Masters students						
1.4.18 allocate Stipend to Cohort 2 National PhD students	X	X	X	X		Stipend disbursed on a monthly basis
1.4.19 Allocate Research funds to Cohort 2 PhD students						
1.4.21 Allocate funds towards Cohort 2 Regional students Insurance						
1.4.22 Allocate funds to Cohort 2 scholarship for Msc students						
1.4.23 Allocate funds to Cohort 2 scholarship for PhD students	X	X	X	X		On going
1.4.24 Allocate Research fund to Cohort 3 Masters students	X					On going
1.4.25 allocate Stipend to Cohort 3 Regional Masters students	X	X	X	X		Stipend disbursed on a monthly basis
1.4.26 allocate Stipend to Cohort 3 Regional PhD students	X	X	X	X		Stipend disbursed on a monthly basis
1.4.27 allocate Stipend to Cohort 3 National Masters students	X	X	X	X		Stipend disbursed on a monthly basis

1.4.28 allocate Stipend to Cohort 3 National PhD students					
1.4.29 Allocate Research funds to Cohort 3 PhD students	X				Research funds awarded to the student by the award committee.
1.4.31 Allocate funds towards Cohort 3 Regional students Insurance					Research funds awarded to the student by the award committee.
1.4.32 Allocate funds to Cohort 3 scholarship for Msc students	X	X	X	X	Research funds awarded to the student by the award committee.
1.4.33 Allocate funds to Cohort 3 scholarship for PhD students	X	X	X	X	Research funds awarded to the student by the award committee.
1.4.34 Allocate Research fund to Cohort 4 Masters students	X				To be awarded upon defense of project proposals.
1.4.35 allocate Stipend to Cohort 4 Regional Masters students	X	X	X	X	Stipend disbursed on a monthly basis
1.4.36 allocate Stipend to Cohort 4 Regional PhD students	X	X	X	X	Stipend disbursed on a monthly basis
1.4.37 allocate Stipend to Cohort 4 National Masters students	X	X	X	X	Stipend disbursed on a monthly basis
1.4.38 allocate Stipend to Cohort 4 National PhD students					
1.4.39 Allocate Research funds to Cohort 4 PhD students	X				To be awarded upon defense of project proposals.
1.4.41 Allocate funds towards Cohort 4 Regional students Insurance					
1.4.42 Allocate funds to Cohort 4 scholarship for Msc students	X	X	X	X	Disbursed upon completion of a semester.
1.4.43 Allocate funds to Cohort 4 scholarship for PhD students	X	X	X	X	To be disbursed upon completion of a semester.
1.4.44 Allocate Funds for Ethics Review for Cohort 1 Master Students					

1.4.45 Allocate Funds for Ethics Review for Cohort 1 PhD Students						
1.4.46 Allocate Funds for Ethics Review for Cohort 2 Masters Students						
1.4.47 Allocate Funds for Ethics Review for Cohort 2 PhD Students						
1.4.48 Allocate Funds for Ethics Review for Cohort 3 PhD Students	X	X	X	X		On going
1.4.49 Allocate Funds for Ethics Review for Cohort 3 Masters Students	X	X	X	X		On going
1.4.50 Allocate Funds for Ethics Review for Cohort 4 PhD Students	X	X	X	X		To be disbursed upon completion of a semester.
1.4.51 Allocate Funds for Ethics Review for Cohort 4 Masters Students	X	X	X	X		To be disbursed upon completion of a semester.
1.5 Strengthen ICT infrastructure for teaching and learning					2,675,000.00	
1.5.3 procure of server for the labs						
1.5.4 Procure teleconference/Video facility						
1.5.7 Subscription for dedicated bandwidth (20MB/s)	X	X	X	X		To be paid
1.5.8 Maintenance network printer, Copier, laptops, desktops and ICT equipment	X	X	X	X		Need based
1.5.17 Procure Interactive Boards						
1.5.18 Maintenance of existing Interactive Board	X	X	X	X		When need arises
1.5.19 procure 10kva UPS						
1.6 Advertise and admit students into MSc and PhD programmes					2,240,000.00	
1.6.1 Develop and produce brochures	X	X	X			To be printed in Q4
1.6.2 Advertise in the print media (Local)	X	X	X			Advertisement to be done online so no expenditure will be incurred
1.6.3 Advertise on the website						

1.6.4 Admit Students into MSc. Programmes (Facilitation for CUE Equation & Verification)		X		X		
1.6.5 Admit Students into PhD. Programmes (Facilitation for CUE Equation & Verification)				X		
1.6.8 Facilitate Students Orientation Exercise			X			
1.7. Offer required taught courses to MSc and PhD students					1,000,000.00	
1.7.1 Facilitate Visiting Scholar	X					4 scholars visited
1.7.2 Facilitate Purchase of teaching aids and consumables						
1.8 Initiate and implement regional students' exchange to broaden learning experience					2,650,000.00	
1.8.1 Implement Students exchange program	X					In progress
1.8.2 Enhance welfare facilities for exchange students (DSTV Subscription, furniture and appliances, crockery, Refurbishments/Maintenance)						
1.8.3 Facilitate Annual students' integration/cultural days						
1.9 Develop Relevant Short Courses for Special Groups					1,200,000.00	
1.9.3 Conduct short courses on Cricket rearing and value addition	X					Conducted within the Quarter
1.9.4 Conduct short courses on BSF rearing and value addition	X					To be undertaken in Q4
1.9.5 Conduct short courses on Grants Proposal Writing						
1.9.6 Conduct short courses on ICT for Research						
1.9.7 Conduct Short Course on GIS for Food Security						

1.9.8 Conduct short Course on Applied Statistics						
1.10 Develop content and convert for delivery by e-learning platform						
1.10.1 Conduct Training for content development						
1.10.2 Procure Equipment for Content Development Studio						
1.10.3 Procure tablets						
1.10.4 Internet Data bundle						
1.10.5 Cost of the cloud hosting						
1.11 Expand the existing library resources including e-resources relevant to the ACE					1,800,000.00	
1.11.1 Periodic subscription	X					
1.11.2 Book Purchases						
1.11.3 Procure Antiplagiarium Software	X					Valuation done awaiting award of tender
1.12 Broaden students' knowledge and skills through internship at advanced research institutions and industries					2,000,000.00	
1.12.1 Conduct field academic tours		X	X	X		Conducted
1.12.2 Facilitate Students' Internships						
2.0. Strengthen research capacity excellence					29,740,800.00	
2.1 Scale up MSc and PhD research in key areas in insect science and food security						
2.1.1 Initiate and Evaluate calls for grants and proposal; calls for scholarships and students support	X					
2.2 Expand local, regional and international collaborations and joint research programmes					2,000,000.00	
2.2.1 Facilitate Planning of collaborative research						
2.2.1.1 Facilitate Collaborative						

Research					
2.2.2 Facilitate Initiation of Partnership and Collaborations (ICIPE & Copenhagen Univ.)					
2.2.3 Initiate Research Collaboration activities with ICIPE					
2.2.4 Equipment Sharing and bench fee charges					
2.2.6 Expand insect production at research level (Initiate Palm weevils, Meelworms & Ruspolia)					
2.3 Equip and rehabilitate research laboratories for upscaling insect rearing, processing and analysis				7,710,800.00	
2.3.1 Maintain/Procure (Items 2-5) for PG Research Lab				5,500,000.00	
a) Maintain personal digital assistants- Tablets					
b) Maintain High spec desktop computers					
c) Maintain network printer					
d) Procure data analysis software -En-Vivo	X				Valuation done awaiting award of tender
e) Procure data analysis software -SPSS	X				Valuation done awaiting award of tender
2.3.2 Maintenance/Procure of Equipment for Food /chemistry lab					
a) Procure HPLC					
b) LCMS					
c) Procure GC-MS					
d) Procure Kjedadhl Apparatus					
e) Procure AAS					
f) Procure Distillation Apparatus					
g) Procure Centrifuges					
h) Procure Desiccators					

Procure Color comparison cabinet	i)					
Procure Vortex mixer	j)					
) Procure Osmometer	k					
Procure Viscometer	l)					
) Procure Soxhlet apparatus (EE)	m					
) Procure Instant moisture analyzer	n					
) Procure precision balance (Analytical Balance 0.0001).	o					
2.3.3 Maintain Plant and Equipment for microbiology lab					600,000.00	
a) Fume chambers						
b) incubators						
centrifuges						
c) Procure Autoclaves						
d) Water distillation units						
e) Microscopes						
f) Procure Freezer						
g) Cold room						
2.3.3.1 Lab Reagents and Chemicals for Centre Labs	X					Process underway to be finalized in Q4
2.3.4 Maintain/Procure Equipment for insect processing pilot plant and lab					180,000.00	
a) Procure Refrigerators						
b) Procure Baking Oven						
c) Procure Grinder						
d) Blenders						
e) Procure Agitators						

Biscuit processing machine	f) Maintain	X	X	X	X		Need based
Extruders	g) procure						
	h) Freeze driers						
machine	i) Packaging						
Lamina Flow	j) Procure						
Water Deionizer	k) Procure						
extraction Kits	l) Procure DNA						
electrophoresis	m) Procure Gel						
Liquid Nitrogen	n) Procure						
Bomb Calorimeter	m) Procure						
Muffle furnance	n) Procure						
2.3.5 Equiping the insect mass rearing and production units						1,430,800.00	
2.3.5.1 Outsourcing Crickets for the farm and lab processing							
2.3.5.1.1 Facilitate stakeholder sensitization meetings to supply insects							
2.3.5.1.2 Collection of gathered crickets from the groups							
2.3.5.2 Improve rearing facilities							
2.3.5.2.1 Optimize production (climatic) conditions							
2.3.5.2.1.1 Purchase Data loggers							
2.3.5.2.1.2 Purchase hygrometers							
2.3.5.2.1.3 Purchase Thermometers							
2.3.5.2.1.4 Purchase Infra-red lighting bulbs and fittings							

2.3.5.2.2 Procure Feeds and Substrates (Cricket feeds, substrates, drinkers, cotton wool, brewers waste)						
.3.5.2.2.1 Purchase chicken - Growers mash,	2	X	X	X	X	Procurement process underway
.3.5.2.2.2 Purchase of cotton wool	2					
.3.5,2.2.3 Purchase of fruit waste	2	X	X	X	X	Ongoing
.3.5.2.2.4 Purchase of brewers waste	2					
2.3.5.3 Repair and Upgrade Insect rearing units						
2.3.5.3.1 Upgrade BSF tunnel floor to concrete standards						
2.3.5.3.2 Install cooling unit to the BSF Tunnel						
2.3.5.3.3 Install cloth cages in the BSF tunnel						
2.3.5.3.4 Procure BSF feeding trays (Industrial Stack trays)		X				Procurement process underway
2.3.5.3.5 Repair of existing cricket housing (pens, roof etc)		X	X	X	X	Procurement process underway
2.3.5.3.6 Procure paper-based egg trays (cricket hideouts)		X				Procurement process underway
2.3.5.3.7 Fabrication BSF feeding tray racks		X				Procurement process underway
2.3.5.3.8 procure plastic collection bins						
2.3.5.3.9 procure and install plastic collection gutters						
2.3.5.3.10 procure salad bowls & colanders						
2.3.5.3.11 Procure Hatching basins						
2.3.5.3.12 Paint brushes						
2.3.5.3.13 procure knapsack sprayer						
2.3.5.3.14 procure corrugated pipes						

2.3.5.3.15 procure a sponge material /foam sheet					
2.3.5.3.16 Install hand washing facility					
2.3.5.3.17 Install foot bath facility					
2.3.5.3.18 Procure pails(100 litres)					
2.3.5.3.19 procure and install water tank					
2.3.5.3.20 procure protective clothing(Helmet,dust coat,gumboots,nose musk, rubber gloves,industrial boots,	X				
2.3.5.3.21 Install Fence and gate at the Insect rearing farm					
2.3.5.3.22 Construct lavarium (with exhaust fan)					
2.3.5.3.23 Intstallation of safety safeguards (Fire extinguisher,,First Aid Kits)					
2.3.5.3.24 Installation of ramps in insect farm for ease of access in BSF & Cricket houses					
2.3.5.4 Procure farm implements (Wheelbarrows, brooms, rakes, horse pipes, pangas, jembes)					
2.3.5.6 Benchmark with other insect producers (JKUAT, Sanergy, Mixa Feeds)					
2.3.5.7 Install Security lights					
2.3.5.8 Farm landscaping					
2.3.5.9 Install drainage system around the BSF tunnel					
2.3.5.10 Install R&D Tunnel					
2.3.5.11 Purchase of R&D inputs					
2.3.5.12 Emergence mitigation					
2.3.5.13 Installation cost					
2.3.5.14 Fabrication of grasshoper cages	X	X			
2.3.5.15 Diversification of insect processed products					
2.3.5.15.1 Feed formulation					

2.3.5.15.2 Insect based Poultry feed production						
2.3.5.15.3 Insect based Fingerling feed production						
2.3.5.16 Cricket Fortified flour						
2.4 Enhance faculty research capacity through staff development, exchange programmes and visits					5,500,000.00	
2.4.1 Facilitate Staff Exchange program	X					In progress targeting both faculty and students
2.4.3 Facilitate staff development						
2.4.4 Facilitate Characterization of Insects for food and feeds						
2.4.5 Facilitate Joint Students Supervision	X	X	X	X		Are underway
2.4.6 Enhance welfare facilities for Staff exchange (DSTV Subscription, utilities, furniture, equipment and appliances,crockery,Maintenance)						
2.5 Recruit/Maintain qualified technical					5,780,000.00	
2.5.1 Cost of adverts;						
2.5.2 Salaries and allowances						
a) Chief Technologist - 1 Staff	X	X	X	X		Done on a monthly basis
b) Graduate Assistant - 1 Staff	X	X	X	X		Done on a monthly basis
c) Support staff - 1 Staff	X	X	X	X		Done on a monthly basis
d) Technologist (food and feed) – 2 Staff						
e) Technician (computer lab, repository, food lab) – 2 Staff	X	X	X	X		Staff engaged on a need basis
f) Gratuity						
g) Medical Cover	X	X	X	X		Done on a monthly basis
2.6. Conduct training workshops and seminars to broaden students' learning experience					2,000,000.00	

2.6.1 Facilitate Students' Workshop/Seminar Participation	X	X	X	X		Supported upon student application
2.6.2 Facilitate Academic Visits						
2.6.3 Conduct field academic tours for Cohort 4						
2.7. Develop and sign MoUs with partner institutions						
2.7.1 Facilitate Development of partnership						
2.8 Attract, retain and retool faculty & staff in areas relevant to the ACE					3,000,000.00	
2.8.1 Facilitate capacity building for Faculty						
2.8.2 Team Building for Core Team and CAB	X					To be conducted in Q4
2.8.3 Facilitate capacity building for Core Center Staff (Administrative)		X				
2.9 Publish in peer reviewed journals					750,000.00	
2.9.1 Publication of papers	X	X	X	X		Students are supported upon application
2.10 Support scientific conference presentations						
2.10.1 Facilitate Conference participation						
2.11 Develop insect technology incubation and skills transfer hub					2,600,000.00	
2.11.1 Set up demonstration units (TOTs and farmers)	X	X				To be done in Q4
2.11.2 Patenting of innovative ideas			X			
2.11.3 Set up business incubation models						
2.11.4 Set up Insect Repository at JOOUST			X	X		Repository established within the quarter
2.11.4.1 Training for maintenance of repository	X		X			Training arrangement underway to be undertaken in Q4
2.11.4.2 Field Insect collection for repository		X		X		

3.0. Attracting regional faculty and students					960,000.00	
3.1 Set up collaborative postgraduate programmes with other Institutions						
3.1.1 Facilitate Collaborative postgraduate programmes						
3.2 Set up structures for student and staff support					960,000.00	
3.2.1 Construction of Office Block/conference facility						
3.2.2 Construction of Hostels (for exchange, postgraduate and faculty)						
3.2.3 Refurbishment of Hostels (for exchange, postgraduate and faculty)						
3.2.4 Extend Office Block						
3.2.5 Facilitate Regional Students Travel Cohort 1						
3.2.6 Facilitate Regional Students Travel Cohort 2						
3.2.7 Facilitate Regional Students Accommodation Cohort 1						
3.2.8 Facilitate Regional Students Accommodation Cohort 2						
3.2.10 Furnish and Maintain Guest house (Faculty Lounge)						
3.2.11 Furnish and Maintain Exchange Students Guest House						
3.2.12 Facilitate Regional Students Travel Cohort 3						
3.2.13 Facilitate Regional Students Accommodation Cohort 3						
3.2.14 Facilitate Regional Students Travel Cohort 4	X					
3.2.15 Facilitate Regional Students Accommodation Cohort 4						
3.3 Establish staff/student regional mentorship programme and regional working groups						
3.3.2 Implement mentorship programmes						

3.3.4 Facilitate Participation in regional working groups					
3.4 Develop partnerships with industry and research organizations for staff and equipment sharing					
3.4.1 Facilitate partnership for staff sharing					
3.4.2 Facilitate partnership for equipment sharing					
4.0 Plan for national, regional and international academic partnership and collaborations				5,200,000.00	
4.1 Inception seminar to review proposed project workplan				4,200,000.00	
4.1.1 Organize Inception Seminar					
4.1.2 Facilitate Review of Annual Work plan			X		AWP for 2022/23 developed
4.1.3 Facilitate Review of Annual Work plan with partners		X			
4.2 Institutionalize faculty exchange programmes					
4.2.2 Implement exchange program framework					
4.3 Establish and publish a high impact peer reviewed journal in insects as food and feeds					
4.3.1 Register a journal name;					
4.3.2 Set up an Editorial Board;					
4.3.3 Signing a contract with a publishing house; (2 issues per yr @150,000)					
4.4 Set up collaborative postgraduate, postdoctoral studies and fellowship programmes					
4.4.1 Identify and Establish Fellows					
4.4.2 Facilitate participation (Fellowship stipend)					
4.5 Schedule Review workshop with national and regional partners					
4.5.1 Facilitate Review Workshop (2nd Jooust International Scientific					

Conference)						
4.6 Participation in two joint regional ACE II Meetings					1,000,000.00	
4.6.1 Facilitate Joint Regional ACE II Meetings		X		X		Center participated in Phase 2 proposal review
5.0. Plan for management and governance					44,019,864.00	
5.1 Incorporate Management Information System (MIS) for implementing Centre's activities including a Grant Management System						
5.1.1 Procure and implement Grant Management System						
5.1.2 Procure and implement Project Management System						
5.1.3 Procure and implement Audit Software System	X					Procurement process underway
5.2 Adopt best practices in Financial Management and Procurement					1,200,000.00	
5.2.1 Capacity building	X	X	X	X		Ongoing
5.3 Establish sound fiduciary practices					1,250,000.00	
5.3.1 Capacity building for center staff	X	X		X		Ongoing
5.4. Procure and Maintain vehicles					13,900,000.00	
5.4.2 Procure Mini Bus 32 seater						
5.4.3.2 Maintenance	X	X	X	X		Need based
5.4.3.3 Procure 62 seater Bus	X					PRN raised and advertisement to be sent
5.5 Centre operations					260,000.00	
5.5.1. Procure Stationeries	X	X	X	X		Done on a monthly basis

5.5.2. Procure Computer accessories/maintenance						
5.5.3. Procure Hospitality & office maintenance	X	X	X	X		Done on a monthly basis
5.5.4. Procure Furniture and fittings						
5.5.5. Procure Environmental and Social Safeguards IEC Materials and Equipment (fire fighting equipment etc)						
5.5.6. Procure Laptop computers						
5.6 Centre Staff					10,649,864.00	
5.6.1 Advertise for vacancies						
5.6.2 Salaries and allowances						
5.6.2.1 Project Manager	X	X	X	X		Done on a monthly basis
5.6.2.2 Project Accountant	X	X	X	X		Done on a monthly basis
5.6.2.3 Assistant Procurement Officer	X	X	X	X		Done on a monthly basis
5.6.2.4 Farm Manager	X	X	X	X		Done on a monthly basis
5.6.2.6 Admin Assistant	X	X	X	X		Done on a monthly basis
5.6.2.8 Drivers	X	X	X	X		Done on a monthly basis
5.6.2.9 Gratuity	X	X	X	X		Done on a monthly basis
5.6.3 Health Insurance	X	X	X	X		Done on a monthly basis
5.7 Put in place governance framework, financial management, administrative, procurement, monitoring and evaluation procedures and systems					2,260,000.00	
5.7.7 Postage and Courier Charges						
5.7.8 Local Travels	X	X	X	X		Conducted on need base
5.7.9 Communication and Internet Charges						
5.7.10 Facilitate PASET Benchmarking Activities	X					

5.7.10.1 Participate in National and Regional level Capacity building workshops and trainings						
5.7.10.2 Facilitate Stakeholder Consultative Workshop to disseminate benchmarking results and recommendations						
5.7.10.3 Develop/Procure MIS for the University						
5.7.10.4 Participate in graduate tracer study that aligns with the vision and goals of the Institution						
5.8 Schedule and hold implementation team meetings					5,240,000.00	
5.8.1 Facilitate Centre Advisory Board (CAB) Meeting	X	X	X	X		To be conducted in Q4
5.8.2 Facilitate Center Staff Meeting	X	X	X	X		Conducted
5.8.3 Centre Core Team Meetings	X	X	X	X		Conducted
5.8.4 Facilitate ESS Committee Meetings and Activities	X					
5.8.5 Facilitate Partner Implementation Team Meetings						
5.8.6 Farm Visits						
5.8.11 Awareness & Outreach activities	X	X	X	X		Was conducted and farmers were reached and trained on BSF production and value addition
5.8.12 construction of sanitation facility (Toilets, Bathrooms and Changing rooms)						
5.9. Schedule and hold M&E meetings					360,000.00	
5.9.1 Conduct Internal M&E Meetings and Activities	X	X	X	X		Done on a monthly and quarterly basis
5.9.2 Facilitate internal M&E Activities						
5.9.3 Facilitate Mid-Term Review Activities						
5.10. Design, host and manage a custom website for the centre						
5.10.2 Operationalize the website						

5.11. Promote the Centre					4,900,000.00	
5.11.1 Implement marketing strategy						
5.11.2 Facilitate market survey on demand for insect products	X			X		
5.11.3 Facilitate Center Branding (caps, shirts, mementos)	X	X	X			More item to be secured in Q4
5.11.4 Facilitate participation in shows and exhibitions	X					
5.11.5 Facilitate print and electronic media visibility						
6.0 Sustainability					4,000,000.00	
6.1. Generate revenue from internal and external sources (student fees, government subsidies, consultancies, income generating activities from selling products and services from the Centre)					1,000,000	
6.1.1 Facilitate Income Generating Activities	X					Supported the fingerling production unit with water tanks
6.1.2 Facilitate seed money for products						
6.2. Support faculty to submit three major grant applications					2,500,000.00	
6.2.1 Facilitate grant applications	X		X			DAAD application went to the final stage
6.3. Support PhD and MSc students to apply for small grants from international agencies to support their research, attendance and presentations at meetings					500,000.00	
6.3.1 Train Students on grants application	X		X			To be done in Q4
TOTAL					193,979,664.00	

