



ASSOCIATION OF AFRICAN UNIVERSITIES  
ASSOCIATION DES UNIVERSITÉS AFRICAINES

اتحاد الجامعات الافريقيه

Ref. SG/ACE/WB/RV/01

Date: November 28, 2017

Mr. Andreas Blom  
Team Leader, ACE Project  
World Bank  
Washington, USA

Dear Mr. Andreas Blom,

**DISBURSEMENT FOR RESULTS ACHIEVED FOR THE PERIOD 2015/2016 – DLRs  
2.8 (M1&2), 3.1 – 3.4 & 4**

I bring you warm greetings from the AAU.

As agreed in the Financing Agreement and Minutes of Negotiation for each country participating in the Africa Centers of Excellence project, the results for the ACEs must be verified by the Association of African Universities (AAU). For this purpose, AAU has contracted two assisting consultancy firms. Accordingly, results pertaining to student enrollment and outreach (internships) were verified by Technopolis using online surveys and telephone calls. Results pertaining to *National Accreditation* - DLR 2.5 (B) were verified by the AAU through examination of the accreditation certificates, reference to relevant information on the websites of the respective accrediting agency and correspondence with the same agency. Research publications were verified by Elsevier and fiduciary and procurement related results were assessed by the World Bank fiduciary and procurement teams.

Based on the verification of **DLRs 2.6, 2.8 (M1&2), 3.1 – 3.4 & 4**, the Centre for Agricultural Development and Sustainable Environment (CEADESE) has achieved results valued at **SDR 586,250**. Please find attached a schedule of the DLRs achieved and the associated earnings so far in the project. Also attached is a list of the verified research publications.

CEADESE has further submitted documentation that it's Eligible Expenditure Program for the period in question (February 25, 2015 – date of signing of the Financing Agreement to June 30, 2017) equals **NGN 8,931,681,338.43** equivalent to **SDR 25,448,153.73** of which **SDR 1,536,425.00** has previously been reimbursed for achievement of 2015 DLRs and 2016 DLRs 2.1 – 2.4 and 2.5 (B). Therefore, the remaining EEP that potentially could be reimbursed amounts to **SDR 23,911,728.73** which exceeds the amount that the results verified.



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Therefore, the AAU wishes to recommend a disbursement of a total of **SDR 586,250** to CEADSE in respect of **DLRs 2.6, 2.8 (M1&2), 3.1 – 3.4 and 4.**

Thank you in anticipation of your prompt response.

Yours in the service of higher education in Africa,

Prof. Etienne Ehile  
Secretary General.

cc: Prof. Okanlawon Onagbesan, Centre Leader  
Dr. Joshua Atah, Coordinator, NUC

**African Centre of Excellence for Agricultural Development and  
Sustainable Environment (CEADESE)  
Federal University of Agriculture, Abeokuta, Nigeria**

**VERIFICATION OF PROJECT RESULTS (2015/2016)  
SUMMARY REPORT**

<b>DLR Indicators</b>	<b>Total Results reported by ACEs for 2015/2016</b>	<b>Verified Results and disbursed</b>	<b>Verified but not disbursed due to lack of regional students (regionality)</b>	<b>Unit Cost (SDR)</b>	<b>Total Cost (SDR)</b>	<b>Balance SDR 2015</b>	<b>Total DLR Earnings 2016</b>	<b>Balance SDR 2016</b>
<b>2.1 New Short term students</b>	<b>8</b>	<b>0</b>	<b>2</b>		<b>0</b>	<b>250,000</b>	<b>0</b>	<b>250,000</b>
National and men	6	0	1	260	0			
National and women	2	0	1	325	0			
Regional and men	0	0	0	520	0			
Regional and women	0	0	0	650	0			
<b>2.2 New Master students</b>	<b>28</b>	<b>10</b>	<b>16</b>		<b>18,200</b>	<b>178,500</b>	<b>18,200</b>	<b>160,300</b>
National and men	10	0	10	1,300	0			
National and women	14	8	6	1,625	13,000			
Regional and men	2	2	0	2,600	5,200			
Regional and women	2	0	0	3,250	0			
<b>2.3 New PhD students</b>	<b>23</b>	<b>20</b>	<b>3</b>		<b>163,950</b>	<b>250,000</b>	<b>163,950</b>	<b>86,050</b>
National and men	10	7	3	6,250	43,750			
National and women	9	9	0	7,800	70,200			
Regional and men	4	4	0	12,500	50,000			
Regional and women	0	0	0	15,600	0			
<b>2.4 Number of outreach "periods"</b>	<b>1</b>	<b>1</b>			<b>1,300</b>	<b>487,900</b>	<b>1,300</b>	<b>486,600</b>
National	1	1		1,300	1,300			
Regional	0	0		2,600	0			
<b>2.5 Accreditation</b>	<b>0</b>	<b>0</b>			<b>130,000</b>	<b>510,000</b>	<b>130,000</b>	<b>380,000</b>
<b>2.5 (A) International accreditation</b>	<b>0</b>	<b>0</b>		390,000	<b>0</b>			
<b>2.5 (B) National accreditation</b>	<b>0</b>	<b>2</b>		65,000	<b>130,000</b>			
<b>2.5 (C) Gap assessment verified</b>	<b>0</b>	<b>0</b>		65,000	<b>0</b>			
<b>2.5 (D) CAMES certification</b>	<b>0</b>	<b>0</b>		65,000	<b>0</b>			
<b>2.5 (E) Bologna Compliant programs</b>	<b>0</b>	<b>0</b>		65,000	<b>0</b>			
<b>2.5 (F) Self-Evaluation</b>	<b>0</b>	<b>0</b>		65,000	<b>0</b>			
<b>2.6 Research Publications<sup>[1]</sup></b>	<b>0</b>	<b>38</b>			<b>570,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
Regional Collaboration	0	0		30,000	0			
No Regional Collaboration	0	38		15,000	570,000			
<b>2.7 External Revenue</b>						<b>760,000</b>	<b>0</b>	<b>760,000</b>
<b>2.8 T&amp;L Environment</b>					<b>505,000</b>	<b>1,010,000</b>	<b>505,000</b>	<b>505,000</b>



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DLR Indicators	Total Results reported by ACEs for 2015/2016	Verified Results and disbursed	Verified but not disbursed due to lack of regional students (regionality)	Unit Cost (SDR)	Total Cost (SDR)	Balance SDR 2015	Total DLR Earnings 2016	Balance SDR 2016
M1:					252,500			
M2:					252,500			
M3:								
M4:								
<b>3. Financial Management</b>					48,750	203,125	48,750	154,375
3.1 Timely Withdrawal					16,250			
3.2 Functioning Audit Committee					16,250			
3.3 Functioning Internal Audit Unit					16,250			
3.4 Financial Online Transparency					0			
<b>4 Procurement</b>					32,500	227,500	32,500	195,000
<b>TOTALS</b>	<b>60</b>	<b>31</b>				<b>3,877,025</b>	<b>899,700</b>	<b>2,977,325</b>
<b>TOTAL AMOUNT EARNED</b>					<b>899,700</b>			
<b>PAYMENT DUE FOR DLRs 2.6, 2.8 (M1&amp;2), 3.1 - 3.4; 4</b>					<b>586,250</b>			



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**DETAILS ON VERIFIED RESEARCH PUBLICATIONS (DLR 2.6)**

ACEs	Title	Source title	Year	Relevant to ACE Focus	Regional	DLR Earning (SDR)
CEADESE	Quality attributes of cassava-fish crackers enriched with different flours: An optimization study by a simplex centroid mixture design	Journal of Food Process Engineering	2017	Y	N	15,000
CEADESE	Nutritional composition, functional and pasting properties of wheat, mushroom, and high quality cassava composite flour	Journal of Food Processing and Preservation	2016	Y	N	15,000
CEADESE	Process optimization by response surface methodology and quality attributes of vacuum fried yellow fleshed sweetpotato ( <i>Ipomoea batatas</i> L.) chips	Food and Bioproducts Processing	2015	Y	N	15,000
CEADESE	Evaluation of Some Quality Attributes of Noodles from Unripe Plantain and Defatted Sesame Flour Blends	Journal of Culinary Science and Technology	2015	Y	N	15,000
CEADESE	Development of palm kernel nut cracking machine for rural use	Agricultural Engineering International: CIGR Journal	2015	Y	N	15,000
CEADESE	Technical efficiency of honey production and its determinants in Iwo, Osun State Nigeria	Tropical Agriculture	2016	(Y)	N	15,000
CEADESE	Performance evaluation of a developed rice-processing machine	Journal of Agricultural Engineering	2016	Y	N	15,000
CEADESE	Basal endogenous losses of amino acids in protein nutrition research for swine and poultry	Animal Feed Science and Technology	2016	Y	N	15,000
CEADESE	The adoption of energy efficiency measures by firms in Africa: Case studies of cassava processing in Nigeria and maize milling in Kenya	Innovation and Development	2015	Y	N	15,000
CEADESE	Characteristics of marine CSEM responses in complex geologic terrain of Niger Delta Oil province: Insight from 2.5D finite element forward modeling	Journal of African Earth Sciences	2015	N	N	0
CEADESE	Application of starch-albumen powder as breading material in fried foods: An optimization study	Journal of Culinary Science and Technology	2016	Y	N	15,000



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ACEs	Title	Source title	Year	Relevant to ACE Focus	Regional	DLR Earning (SDR)
CEADESE	Exogenous tannase improves feeding value of a diet containing field beans ( <i>Vicia faba</i> ) when fed to broilers	British Poultry Science	2016	Y	N	15,000
CEADESE	Socioeconomic determinants of profitability of fresh fish marketing in Ogun State, Nigeria	International Journal of Social Economics	2016	Y	N	15,000
CEADESE	Technical Efficiency of Leafy Vegetable Production Using Various Sources of Water	International Journal of Vegetable Science	2017	Y	N	15,000
CEADESE	Cross-country comparison of voucher-based input schemes in sub-sahara Africa agricultural transformation: Lessons learned and policy implications	Agriculturae Conspectus Scientificus	2016	Y	N	15,000
CEADESE	Effect of fungal fermentation with <i>Aspergillus niger</i> and enzyme supplementation on metabolizable energy values of unpeeled cassava root meal for meat-type cockerels	Animal Feed Science and Technology	2015	Y	N	15,000
CEADESE	Effects of sawdust thickness on the growth performance, environmental condition, and welfare quality of yellow broilers	Poultry Science	2015	Y	N	15,000
CEADESE	Irrigation Technology and Technical and Resource-Use Efficiencies in Smallholder Urban Vegetable Farming	International Journal of Vegetable Science	2016	Y	N	15,000
CEADESE	Utilisation of Malted Sorghum Sprouts in the Diet of Pullet Chicks	Pertanika Journal of Tropical Agricultural Science	2016	Y	N	15,000
CEADESE	Effects of processing and storage conditions of cocoyam strips on the quality of fries	Food Science and Nutrition	2016	Y	N	15,000
CEADESE	Urban trees forest management in Abeokuta Metropolis, Ogun State, Nigeria: An application of contingent valuation method	Management of Environmental Quality	2015	N	N	0
CEADESE	Some Quality Attributes of High Quality Cassava-Tigernut Composite Flour and Its Extruded Snacks	Journal of Culinary Science and Technology	2015	Y	N	15,000
CEADESE	Determination of ileal digestible and apparent metabolizable energy contents of expeller-extracted and solvent-extracted canola meals for broiler chickens by the regression method	SpringerPlus	2016	Y	N	15,000



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ACEs	Title	Source title	Year	Relevant to ACE Focus	Regional	DLR Earning (SDR)
CEADESE	Experimental investigation of factors affecting compressional and shear wave velocities in shale and limestone of Ewekoro formation of Southern Nigeria sedimentary basin	Environmental Earth Sciences	2016	N	N	0
CEADESE	Nutrient composition, functional, and pasting properties of unripe cooking banana, pigeon pea, and sweetpotato flour blends	Food Science and Nutrition	2017	Y	N	15,000
CEADESE	Factors Influencing Willingness to Pay for Organic Vegetables among Civil Servants in a Developing Country	International Journal of Vegetable Science	2016	Y	N	15,000
CEADESE	Technical and socio-economic relevance in technical adoption: Case study on rotary tillage equipment in South West of Nigeria	AMA, Agricultural Mechanization in Asia, Africa and Latin America	2015	Y	N	15,000
CEADESE	Investigating the influence of incorporation of solar aided power generation technology on a steam power plant in Nigeria	International Energy Journal	2015	N	N	0
CEADESE	Nutritional value of raw and micronised field beans ( <i>Vicia faba</i> L. var. minor) with and without enzyme supplementation containing tannase for growing chickens	Archives of Animal Nutrition	2016	Y	N	15,000
CEADESE	Determination of the adequate dose of garlic diallyl disulfide and diallyl trisulfide for effecting changes in growth performance, total-tract nutrient and energy digestibility, ileal characteristics, and serum immune parameters in broiler chickens	Poultry Science	2016	Y	N	15,000
CEADESE	Effectiveness of teflon as roller material for a prototype rice processing machine	Agricultural Engineering International: CIGR Journal	2016	Y	N	15,000
CEADESE	Bioavailability of Cu, Zn and Mn from mineral chelates or blends of inorganic salts in growing turkeys fed with supplemental riboflavin and/or pyridoxine	Biological Trace Element Research	2016	Y	N	15,000
CEADESE	The efficacy of a new 6-phytase obtained from <i>buttiauxella</i> spp. expressed in <i>Trichoderma reesei</i> on digestibility of amino acids, energy, and nutrients in pigs fed a diet based on corn, soybean meal, wheat	Journal of Animal Science	2015	Y	N	15,000



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	middlings, and corn distillers' dried grains with solubles					
CEADESE	Carbon-nitrogen stocks and structural stability of a tropical loamy sand soil as influenced by Tithonia diversifolia (L.) and other fertilizers	International Journal of Soil Science	2015	Y	N	15,000
CEADESE	Energy utilization and growth performance of chickens fed novel wheat inbred lines selected for different pentosan levels with and without xylanase supplementation	Poultry Science	2015	Y	N	15,000
CEADESE	Household Food Expenditure Patterns, Food Nutrient Consumption and Nutritional Vulnerability in Nigeria: Implications for Policy	Ecology of Food and Nutrition	2015	Y	N	15,000
CEADESE	Determinants of on-farm cassava biodiversity in Ogun State, Nigeria	International Journal of Biodiversity Science, Ecosystem Services and Management	2015	Y	N	15,000
CEADESE	Comparison of apparent ileal and total tract digestibility of calcium in calcium sources for pigs	Canadian Journal of Animal Science	2016	Y	N	15,000
CEADESE	Use of internet for innovation management by extension agents in Oyo State	Journal of Agricultural Extension	2016	Y	N	15,000
CEADESE	Effect of chemical preservatives on shelf life of mushroom (Pleurotus ostreatus) cultivated on cassava peels	International Journal of Food Science and Technology	2015	Y	N	15,000
CEADESE	Evaluation of the impact of wastewater generated from catfish ponds on the quality of soil in Lagos, Nigeria	Annual Research and Review in Biology	2016	Y	N	15,000
CEADESE	Nutrient availability of different batches of wheat distillers dried grains with solubles with and without exogenous enzymes for broiler chickens	Poultry Science	2017	Y	N	15,000
<b>TOTAL</b>						<b>570,000</b>
<b>MAX FOR 2.6</b>						<b>510,000</b>
<b>ALREADY PAID</b>						<b>510,000</b>
<b>BALANCE 2.6</b>						<b>0</b>





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ACEs	Title	Source title	Year	Relevant to ACE Focus	Regional	DLR Earning (SDR)
					AMT TO PAY	0