Africa Centre of Excellence

In Phytomediaine Research and Development

ACE 033

Implementation Plan

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ABBREVIATIONS

ACEPRD:Africa centre of excellence in Phytomedicine Research and Development

GMP: Good Manufacturing Practice TMP: Traditional Medical Practice M&E: Monitoring and Evaluation

NIPRD: National Institute for Pharmaceutical Research and Development

BDCP: Biodiversity and Cultivation Programme

CSIR: Center for Science and Industrial Research, South Africa

1. BRIEF NARRATIVE SUMMARY

Background

Recently, there has been a paradigm shift from traditional pharmaceuticals to plant derived medication in the treatment of diseases. This has led to a global demand for plant-derived medicine (phytomedicines) as a primary and complementary medical tool. The world market for phytomedicine is estimated to be over \$100 billion annually. Africa has not contributed significantly to phytomedicine research, development and commercialization despite of the huge biodiversity on the continent.

Within the region traditional medicine has not been fully integrated into the modern healthcare delivery system due to the following challenges:

- The safety, efficacy and stability of traditional remedies have not been fully documented
- The indigenous traditional medicine knowledge base and culture are on the verge of extinction due to aging and death of custodians
- Depletion of herbs of medicinal value due to deforestation and other factors.
- Inadequate authentication, documentation and comprehensive database of flora in the subregion.
- Poor academia- industry relationship

In order to overcome these challenges, this centre aims to develop the field of phytomedicine and integrate it into the healthcare delivery system in the sub-region. To accomplish this, strengthening in the area of clinical pharmacology, biotechnology, pharmaceutical microbiology and bioinformatics is necessary.

Motivation:

Through the ACEPRD, the University of Jos is taking a leadership role as a Center of Excellence in strengthening training through development of Masters and PhD programs in phytomedicine, clinical pharmacology, biotechnology, pharmaceutical microbiology and bioinformatics. This will increase the supply of national/regional work force and contribute to the area of applied research in phytomedicine. There arealso plans to train traditional medical professionals in areas relevant to Phytomedicine through short courses in order to better achieve educational standardization in traditional medicine. The above will be accomplished through innovative techniques that allow for the creation of new trends in science and technology with the intention of addressing the health challenges of Africa.

Objectives:

The main objective of the Centre is to achieve excellence in educational training and applied research in discovery, production and management of phytomedicine, clinical pharmacology, biotechnology pharmaceutical microbiology and bioinformatics, as well as strengthen the education of traditional medical practitioners through the development of short courses. The above will be accomplished via:

- Enhancement of manpower development through quality teaching and training at a national and regional level in certificate, diploma, masters and PhD programs related to phytomedicine
- Expansion of competence in solving health problems in the region through drug development from the available biodiversity.
- Increasing the availability of phytomedicine through academia-industry relationship to alleviate the disease burden and enhance economic empowerment in the sub-region.
- Facilitating the integration of traditional herbal medicine practice in the healthcare delivery system in the sub-region.
- Conservation of our biodiversity through cultivation and preservation of medicinal plants.

Methodology

The above objectives can be achieved through the development of new curriculum for short courses, Masters and PhD programs in the ACEPRD at the University of Jos. In order to strengthen the educational experience at our Center of Excellence and improve applied research techniques, outreach to students

both nationally and regionally will be conducted. Regional and International partnerships will be developed with the intent of creating collaborative opportunities. Existing infrastructure of the University of Jos facilities will be improved, and new, innovative and creative methods of teaching will be employed. The ACEPRD will allow for a stronger workforce in phytomedicine to be distributed within the region among government agencies, research institutions and the private sector that will help to strengthen our bio-economy and address gaps in the healthcare sector.

Regional partners including the University de Lome, Togo will be involved in the studies of traditional medicines, ethno-botanical survey, the development of herbarium and pharmacopeia. It will also be involved in recruiting students for the Traditional Medical Practice (TMP) new short-term, masters and Ph.D courses. The University of Abomey-Calavi will participate in the areas of biotechnology and applied genetics research, development of phytochemical products from medicinal plants, recruiting students, and staff exchange. The Kwame Nkrumah University of Science and Technology, Kumasi, Ghana; the University of Buea, Cameroon and the University de Ouagadougou will be involved in Biodiversity utilization and development, pharmacokinetics, and development of phytochemical products from medicinal plants, recruiting students and staff exchange.

National partners including NnamdiAzikiwe University, Awka, and the University of Port-Harcourt, Port-Harcourt will be engaged in curriculum development of new short-term courses including phytoremediation, human capital development in applied research in phytomedicine, recruiting students and staff exchange.

Private sector partners including the pharmaceutical companies, Neimeth and Europharm, will be involved in student internships and manufacturing of phytomedicinal products.

International partners including Sheffield Hallam University, Sheffield, is involved in applied research component of the project including; protein purification, DNA sequencing, vaccine development and student/faculty exchange. The Centre for Scientific and Industrial Research is involved in nanotechnology and nanomedicine development and student/faculty exchange. The University of Siena is involved in phytomedicine research and development. They have collaborated with us in the area of snake venom molecular studies and will be involved in further molecular studies including cloning and vaccine production. There will be student/faculty exchange between the institutions. The partnership will be facilitated by the Department of Internal Medicine. As a partner; the Ayurvedic University has already donated a set of bioreactors to the Centre. In the future they will be involved in the area human capital development in applied phytomedicine research, pharmacokinetics, pharmacodynamics, students/faculty exchange.

Important Changes Made

The ACEPRD Project Management Committee is responsible for managing the grant and its activities. The Centre now has a functional audit committee including the Director of internal audit of the University, Procurement team, financial management team (External funds Unit), headed by the financial officer of the Centre and a Monitoring and Evaluation (M&E) team that has some measure of independence from the University system.

There is also a functional Secretariat from the Registry Unit of the University for the Centre to oversee the day-to-day administrative functions of the Centre. The Centre has developed new courses that are currently undergoing consideration for approval by the senate curriculum committee. These courses will increase capacity in phytomedicine training and research particularly faculty from within and outside the University of Jos. The changes will equip the Centre with the capacity to solve regional health-related problems by utilizing the continent's vast biodiversity.

2. OVERVIEW OF PLANNED OUTPUTS, ACTIVITIES AND COST FOR FIRST YEAR

Table 1: Overview of first project year

Code	Priority	Result/ Activity / Task	Bud	dget Estimate (U	S\$)
	Rank		ACE leader	Partners	Total
Action Plan 1	(1 highest 5 lowest)	ACE Action Plan to Achieve Learning Excellence	(Component total for ACE leader)	(Component total for partners)	(Total of component)
1.1	1	Design new curriculum and get approval for new short courses	0	7,500	7,500
1.2	3	Enrol and run new short courses	33,500	0	33,500
1.3	1	Design new curriculum and get approval for Masters program	1,245	0	1,245
1.4	3	Enrol and run new Masters curriculum	83,000	0	83,000
1.5	1	Design new curriculum and get approval for PhD program	1,245	0	1,245
1.6	3	Enrol and run new PhD curriculum	52,000	0	52,000
1.7	2	e-learning platform development	102,500	5,500	108,000
1.8	4	Running of English Second Language courses	8,670	0	8,670
1.9	2	Upgrade and refurbishment of Learning Facilities/Resources	141,800,8	35,800	177,600
1.10	1	Curriculum development of English as Second language	500	0	500
1.11	5	Hostel accommodation at the University for students	21,000	45,000	66,000
1.12	1	Improving Learning Equipment	300,000	0	300,000
		Subtotal	745,460	93,800	839,260
Action Plan 2	(1 highest 5 lowest)	ACE Action Plan to Achieve Applied Research Excellence	(Component total for ACE leader)	(Component total for partners)	(Total of component)
2.1	2	Applied research skills for faculty	78,200	0	78,200
2.2	3	Field sample study and collection	2,000	0	2,000
2.3	3	Lab based sample analysis for students (basic lab equipment)	16,000	10,500	26,000
2.4	5	Publication submission	40,000	0	40,000
2.5	2	Maintaining animal facility for laboratory tests	25,000	5,700	30,700
2.6	1	Core specialized research equipment	444,312	0	444,312
2.7	4	Center monthly seminar	1,200	0	1,200
2.8	2	Improving research environment	50,000	0	50,000

Code	Priority	Result/Activity/Task	Bud	dget Estimate (U	S\$)
	Rank		ACE leader	Partners	Total
		Subtotal	656,712	16,200	672,412
Action Plan 3	(1 highest 5 lowest)	ACE Action Plan to Achieve Outreach of students and partners	(Component total for ACE leader)	(Component total for partners)	(Total of component)
3.1	2	Annual partner site visit	10,000	0	10,000
3.2	2	Regional Student Exchange	0	18,250	18,250
3.3	2	Regional Faculty Exchange	0	22,250	22,250
3.4	3	Training by international faculty to build UNIJOS capacity	0	7,000	7,000
3.5	5	Center combined regional and international research conference for students and faculty	112.50	30,937.50	71,050
3.6	4	Regional Center Research Conference	24,350	13,250	37,600
3.7	1	Project management committee meeting (bi-weekly)	0	0	0
3.8	2	Outreach events targeting women and minorities	8,000	23,000	31,000
3.9	3	Industry Networking events	52,500	0	52,500
		Subtotal	134,962.5	114,687.5	249,650
Action Plan 4	(1 highest 5 lowest)	ACE Action Plan to Achieve Center Operations and Management Excellence	(Component total for ACE leader)	(Component total for partners)	(Total of component)
4.1	1	Center Operational Cost	9,000	5,000	14,000
4.2	2	Vehicle purchase, fuel, maintenance	100,000	0	100,000
4.3	5	International Advisory Board meeting	5,100	18,150	24,250
4.4	4	Regional Advisory Board meeting	2,000	23,000	25,000
4.5	1	Center Management Training	20,000	0	20,000
4.6	3	Accreditation	23,125	0	23,125
		Subtotal	159,225	46,150	206,875
Action	(1	ACE Action Plan to Strengthen	(Component	(Component	(Total of
Plan 5	highest 5 lowest)	Financial Stability	total for ACE leader)	total for partners)	component)
5.1	1	Farm cultivation management and expansion	60,250	8,250	68,500
		Subtotal	60,250	8,250	68,500
TOTAL B	BUDGET		1,756,609.50	279,087.50	2,036,697

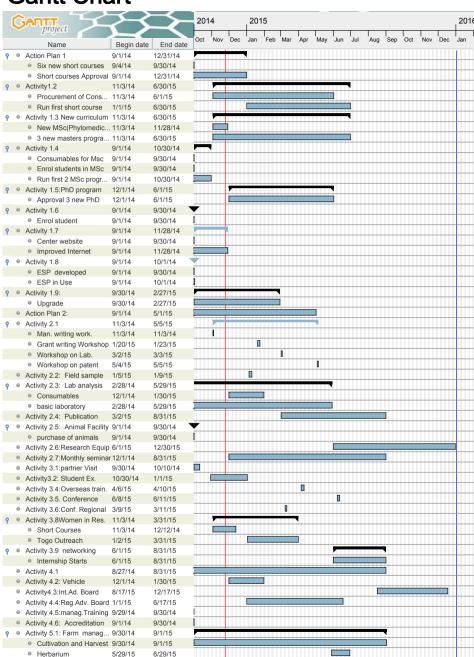
Table 2: Overview distribution among partners

Code	Result/Activity/		•									tes (USD)					
	Task			Natio	nal					Regi	onal				Interna	itional	
	2.	Univ, of Port	NnamdiAzikiw e Univ.	Neimeth PLC.	Euro-Pharm	BDCP	Cameroon	Univ. of Buea,	Univ. of	Univ. of Lome,	Univ. de Ouagadoungo	UKwame Nkrumah Univ. of Science and	CSIR	University of Siena, Italy	Ayurvedic University,	Sheffield Hallam	Total Budget Partner
Action Plan 1	ACE action plan to Achieve Learning Excellence																
1.1	Design new curriculum and get approval for new short courses	2500											2500			2500	7,500
1.7	e-learning platform development							1,100	1,100	1,100	1,100	1,100					5,500
1.9	Upgrade and Refurbishment of learning facilities and resources							7,160	7,160	7,160	7,160	7,160					35,800
1.11	Hostel accommodation at the University for students		6,000					1,500	1,500	36,000							45,000

Action Plan 2	ACE action plan to Achieve Applied Research Excellence													
2.3	Lab based sample analysis for students	1,500	1,500			1,500	1,500	1,500	1,500	1,500				10,500
2.5	Maintaining animal facility for laboratory tests					1,900		1,900	1,900					5,700
Action Plan 3	ACE Action plan to Achieve regional outreach of students and partners													
3.2	Regional Student Exchange					3,650	059'	3,650	3,650	3,650				18,250
3.3	Regional Faculty Exchange					4,450	4,450	4,450	4,450	4,450				22,250
3.4	International/Overs ees training of faculty												7,000	7,000
3.5	Center combined regional and international research conference for students and faculty					3,750	3,750	3,750	3,750	3,750	3,750	4,687.50	3,750	30,937.5

3.6	Regional Center Research conference						2,650	2,650	2,650	2,650	2,650					13,250
3.8	Outreach events targeting women and minorities						4,600	4,600	4,600	4,600	4,600					23,000
Action Plan 4	ACE Action plan to Achieve Center Operations and Management Excellence															
4.1	Center Operational Cost						1,000	1,000	1,000	1,000	1,000					5,000
4.3	International Advisory Board meeting											4,537.5,	4,537.5	4,537.5	4,537.5	18,150
4.4	Regional Advisory Board meeting						4,600	4,600	4,600	4,600	4,600					23,000
Action Plan 5	ACE Action plan to Strengthen Financial Stability															
5.1	Farm cultivation management and expansion							2,750		2,750	2,750					8,250
Total		4,000	7,500	ı	ı	1	37,860	38,710	75,110	39,110	34,460	10,787.5 0	4,537.50	9,225	17,787.5 0	279,087. 50

Gantt Chart



4. IMPLEMENTATION ARRANGEMENTS

4.1 Guiding rules and regulations

The Centre has a goal of promoting and sustaining regional specialization in phytomedicine, through quality training and applied research at the postgraduate level that is relevant to the healthcare needs of the sub-region. Here we provide a framework for undertaking the improvement of education, research and scholarship for phytomedicine in the region. This aligns with the University's strategic plan to support research and training that encourages knowledge mobilization for improved quality of life. The university management will play an active role in signing financing agreement, MOUs, contracts, and supervision of funds through its financial management team including finance, audit, advancement and procurementunits that will provide accounting and financial reporting for the centre funds.

The Institution's policies concerning admission and enrolment for MSc and PhD through the School of Postgraduate Studies will be adhered to strictly by the ACEPRD. The School of Postgraduate Studies will work with the Centre to apply these rules in its admission processes. The University has a gender policy in place that empowers women in scholarship, administration and appointment in the academia. Therefore gender mainstreaming will be adhered to in the process of admissions and the encouragement of female students /faculty in human resource development in Phytomedicine and applied research. The University regulation on postgraduate admissions, disciplinary policy will be strictly adhered to. Furthermore, the Centre will comply with university intellectual property regulations.

In addition, the University structures for financial accountability (finance, audit, procurement, price control, pre-qualifications) will be strictly adhered to as well as the World Bank financial regulations. To engender these, a financial officer and a procurement officer from the external funds unit of the university bursary has been seconded by the university management to the Centre. They are to report to the university management through the project director all matters of appropriation and implementation. Two committees finance and procurement will check all the books of the Centre, grant approval for all procurements, and monitor the accounts and financial dealings of the Centre.

The Office of Research and Development (ORD) has an institutional research policy. Research that will be conducted by students and faculty of the ACEPRD will be made known to the ORD for adherence of the guiding policies on research. The ORD has competent Directors in-charge of pre-award, post-award, deputy director in-charge of policy implementation, a Director and a Research Administrator who are all trained in Research Administration and Management. They will assist the Centre in translating research results beyond publications to community relevance.

There is a university Central Research Ethics Committee that will receive applications from the Centre for any research that will be conducted by the centre, complying with the university approval process as well as the National Research Ethics guidelines, which have been adapted for university use.

To allow the centre independence, autonomy and flexibility in its timing and decision-making the Vice Chancellor has appointed a project management team to run the Centre. This is to make the Centre an entity that is compliant with university institutions but not lost in the day-to-day operations of the University. As an integral part of a university system, the Centre administrative structure envisions a strategic approach to evolve innovative thinking to bring about excellence in human capacity development in phytomedicine for the development of Africa, contributing to the world health system.

4.2 Governance structures

The University of Jos where the ACEPRD is located has a governance structure which provides leadership and guidance for all educational and research activities. The Centre has developed an administrative structure that is made up of international advisory board that is responsible in standardizing the ACEPRD education and research programme. It will be involved in the international accreditation of its education

programmes, and implement all matters pertaining to the overall scientific and programmatic quality and standard of the ACEPRD. The IAB will also be responsible for the supervision of compliance to the project mission and vision.

Other administrative structures include the sub-regional advisory board, project management team, and departmental units.

The day-to-day administration of the project is the responsibility of the project management team (PMT) that will meet twice a month. The PMT will proffer solutions to project challenges, and ensure proper implementation of project objectives and goals. The Centre Leader Prof. John Chinyere Aguiyi is designated to provide leadership, advocacy, coordination, management and administration of all aspects of implementation, training and research, including support and policy framework. He is also vested with the responsibility of reporting to the World Bank, Association of African Universities and the National University Commission.

The project management team has the responsibility of managing the Centre in accordance with the program guidelines and the funding agreement, providing accounting and financial reporting for Centre's funds. For the monitoring and evaluation of project implementation, the PMT is expected to meet twice in a month.

Project Management Team	
Position	Name
Center Leader	Prof. JC Aguiyi
Deputy Center Leader	Prof FK Okwuasaba
Secretary	Mr.Mark G. Kparmak
M & E Officer	Prof CA Ugodulunwa
Financial Officer	Mr. Luke C. Ngwu
Procurement Officer	Mr. Micah O. Sattong
Head of phytomedicine program	Prof. F.C Ohiri
Head of Clinical Pharm	Dr.MaxwellDapar
Information Communication Technology	Dr.TankoIshaya
Head of Library	Dr. Stephen Akintunde
Education Leaders	Prof. U.K Eke
	Prof. M.N Sule
Post Graduate Representative	Prof.Warisu O. Alli

The Regional Advisory board will contribute to faculty exchange, student mobilization for training, workshop participation, budget implementation by partners, and evaluation of success of the ACEPRD programme in the region. They will meet twice annually.

Nameof Partner	Representative
Universityof Lome, Togo	Dr. Nicholas Koudouvo
UniversityofAbomey-Calavi, Cotonou,	Dr. Enoch G. Achigan-Dako
Benin Republic	
UniversityofBuea, Cameroon	Prof.Efange Simon
University de Ouagadougou, Burkina	Dr.DjierroKhadidja
Faso	
KwameNkrumah University of Science	Prof.Theophillus C. Fleitcher
and Technology, Kumasi, Ghana	
University of Port-Harcourt	Prof. A. Akwaranta
NnamdiAzikiwe University, Awka	Prof. Charles O. Esimone

Biodiversity Development and	Prof. E.N Sokomba	
CultivationProgramme, BDCP		

Department	Name
Phytomedicine	Prof. F.C Ohiri
Phytomedicine	
	Dr. Charity Amienyo
Clinical Pharmacology	Prof. F.O. Okwuasaba
Clinical Pharmacology	Prof. J.C. Aguiyi
Clinical Pharmacology	Prof. (Mrs.) M.O. Uguru
Clinical Pharmacology	Dr. N.N. Wannang
Clinical Pharmacology	Dr. S.O. Otimenyin
Pharmaceutics	Prof. M.A. Ibrahim
Pharmaceutics	Prof. I.S Okafor
Pharmaceutics	Dr. I Ogaji
Medicinal Chemistry	Prof. J.A. Kolawale
Medicinal Chemistry	Prof.AlemikaTaiwo E.
Medicinal Chemistry	Prof. N.A. Ochekpe
Clinical Pharmacy	Dr. S.S. Gyang
Clinical Pharmacy	Dr. L.M.P. Dapar
Medicinal Chemistry	Dr. (Mrs.) L. A. Lohdip
Medicinal Chemistry	Prof. E.A Adelakun
Biotechnology and Genetic Engineering	Prof. B.A Ajala
Zoology	Dr. Georgina Mwansat
Human Physiology	Dr. U.G Egesie
Community Medicine	Prof. C. Ogbonna
Internal Medicine	Dr. O.O Agbaji
Education Foundations	Dr. M.N Sule
Chemistry	Prof. M. Ekwenchi
Reproductive Biology	Dr. E.O Ekwere
Pharmaceutical Microbiology	Emmanuel Nnadi
Pharmaceutical Microbiology	Dr. P.M Lar
Intellectual Property	Dr. D.N Jangkam
Bioinformatics	Dr. I shayaTanko
Biochemistry	Dr. T.I. Johnson
French Linguistics	Prof. U.K Eke

CENTRE FACULTY: The Centre faculty will teach, supervise and mentor all Masters and PhD students, facilitate workshops, conduct seminars and research activities at the Centre. They are solely responsible for the day-to-day management of the Centre Units. They will meet with Management Team to present all research and learning activities and challenges monthly.

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Figure 1: ORGANOGRAM OF ACEPRD ADVISORY BOARDS

Partners' Contribution in the ACEPRD Project

Regional Partners:

University of Buea, Cameroon

The University of Buea, Cameroon as a partner will be involved in human capital development in applied phytomedicine research, medicinal and computational chemistry and chemo-informatics. It will also be involved in pharmacokinetics and pharmacodynamics of phytomedicine research and development. There will be also student/faculty exchange. Prof. Simon Efange a renowned Professor of medicinal chemistry will anchor this partnership.

University de Lome

The University de Lome will contribute in its areas of expertise traditional medicine and natural product studies of the region. They have a very active herbal unit in the country's Ministry of Health, which is interestedin working with the University de Lome to translate natural medicinal plants to products and service. This can be achieved by bringing it's human resources; the traditional practitioners and academics, together. University de Lome will be involved in ethno-botanical studies of the region, helping the Centre to know the medicinal plant potentials of each part of the region and the diseases it can address respectively. It will also assist in the development of an herbarium and pharmacopeia on the regional medicinal plants. University de Lome will also be involved in staff and student exchange. The partnership is represented by Dr. Nicholas Koudouvo, who holds a PhD in natural and phytomedicine science. He has also worked extensively with herbal practitioners. He will be anchoring the project's herbal education in Togo.

University of Abomey-Calavi, Cotonou Benin Republic

The University of Abomey-Calavidepartment of biotechnology has experts in phytogenetics, phytoconservation and production. Students and faculty exchange between their University and the Centre will enhance sharing of knowledge and expertise. Dr. Ir. Enoch G. Achigan-Dako, the Head of the Horticulture and Genetics Unit of the Faculty of Agronomic Sciences at the University is the liaison to the Centre.

Kwame Nkrumah University of Science and Technology Kumasi Ghana

The Kwame Nkrumah University of Science and Technology, Kumasi, Ghana is renowned for research in natural products, agriculture and natural resources. The ACEPRD project will explore the biodiversity utilization and development in that country to transform research products into phytomedicines in collaboration with pharmaceutical industries in Ghana. Pharmacodynamics and pharmacokinetics of phytomedicines shall also be addressed by the Ghanaian collaboration. The phytochemical components of identified medicinal plants will be used for teaching and research. Student and faculty exchange will take advantage of these learning opportunities for applied research. Prof. Theophillus C. Fleischer who is the current Dean of the pharmaceutical sciences is the main contact person. He will also be involved in assisting the Centre to recruit students from Ghana to study phytomedicine.

University de Ouagadougou, Burkina Faso

The University de Ouagadougou will contribute human capital development in applied phytomedicine research; pharmacokinetics and pharmacodynamics through student/faculty exchange.

National Partners

University of Port-Harcourt

The University of Port-Harcourt is a national partner and is involved in the introduction of environmental management through the use of phytomedicine (Phytoremediation). It will contribute to the phytoremediation short-term course curriculum development and in the teaching of the course. Students will go for internship in Port Harcourt for environmental pollution management experience. The partnership is facilitated by Prof. A Akwaranta.

Nnamdi Azikiwe University Awka

The Nnamdi Azikiwe University Awka is also a national partner that will help develop human capital in applied phytomedicine research phytomicrobiology, biotechnology, pharmacokinetics and participate in student/faculty training. The partnership is facilitated by Prof. Charles Esimone an expert in pharmaceutical microbiology and biotechnology.

INTERNATIONAL PARTNERS:

Sheffield Hallam University, UK

The Sheffield Hallam University is providing bench space to our postgraduate students on short-term visits to develop in vitro and in vivo models for the assessment of the compounds absorption, distribution, metabolism, excretion, and toxicity in the systems. They will also be involved in our vaccine development and design. Dr Smith a renowned molecular biologist will develop a curriculum for short-term course in the areas of analytical biology, protein purification and characterization and molecular biology. The training of students/faculty will be for 2 weeks annually in Jos.

Centre for Scientific and Industrial Research, (CSIR) South Africa

The Centre for Scientific and Industrial Research (CSIR) will be involved in the development of curriculum in nanotechnology. Dr Hulda Swai an expert in nanotechnology will conduct train-the-trainers workshops and short-term courses in various aspects of nanotechnology and nanomedicine and their integration in phytomedicine. The training of student/faculty will be for 2 weeks in Jos annually.

University of Siena, Italy

The University of Siena is involved in phytomedicine research and development. They have collaborated with us in the area of snake venom molecular studies and will be involved in further molecular studies including cloning and vaccine production. There will be student/faculty exchange with the partnership shall be facilitated by the Department of Internal Medicine.

Ayurvedic University, New Jersey USA

The Ayurvedic University partnership was developed by the Centre because of its expertise in drug discovery from natural products and traditional medicines. The university leadership was instrumental in the development of processes for the manufacture of Paclitaxel and second generation Paclitaxel. They established a line of Nutraceuticals (phytomedicines as food supplement) that were marketed through the company's XetaPharm, asubsidiary of the University, which established offices in the UK, China, India and Nigeria. The Nigerian subsidiary, Xechem Pharmaceuticals Nigeria, Ltd., was established to manufacture and market NICOSAN[™] a phytopharmaceutical for the treatment and management of Sickle Cell Disease, licensed from the National Institute of Pharmaceutical Research and Development (NIPRD) in Abuja, Nigeria. The Ayurvedic University mission is to bring credibility and acceptability to traditional systems of health and medicines to western cultures and to establish a multi-national drug discovery team that will collaborate on phytopharmaceuticals for the treatment of malaria and other neglected diseases. This is a natural correlation of the objectives of the ACEPRD, which is to integrate traditional systems of health and medicines into the world of western medicines. In support to the centre Ayurvedic University has donated a set of bioreactors to the Centre. In the future they will be involved in the area human capital development in applied phytomedicine research, pharmacokinetics, pharmacodynamics, students/faculty exchange

INDUSTRY PARTNERS
Neimeth Pharmaceuticals

Neimeth Pharmaceutical Company has a mission to "add value to indigenous research" through acquisition of patents, manufacturing of lead compounds, and commercialization. The partnership will strengthen the existing internship programme for students. Furthermore, the industry has contributed immensely in the area of Good Manufacturing Practice (GMP) in phytomedicine development in the Centre. The partnership is facilitated by Mr. Emmanuel Ekunno the Managing Director/Chief Executive Officer.

Europharm Ltd.

Europharm is a Nigerian-owned pharmaceutical company based in Jos. Its business includes the manufacturing of pharmaceuticals, medicinal chemical, and botanical products. A partnership with the ACEPRD will allow the centre to be a knowledge generating source for the company. The company will also be a training ground for the students for internships and field trips, and staff will also have direct access to the laboratories for industrial research. The partnership shall be facilitated by the Managing Director Dr. J.N Nasir.

4.3 Incentive structures

The planned facility renovations, including upgrading of mushroom and animal houses and expanding farm capabilities are all to the benefits of the Centre and the University. Learning is improved for faculty and students not just in the centre but the university as a whole by access to these improvements. The admission of foreign partner students, visitation of foreign partner faculty, and exchange programmes bring additional value to the learning and research environment through increased specialization and broadened perspective. Subscription to high impact journals by the centre will also benefit the university and regional partners immensely by roll modelling academic standards, motivating faculty development and increasing high impact publications.

Faculty and staff working in the ACE, in addition to their standard university granted salaries, will have the opportunity to participate in collaborative research work with partner institutions and individuals. This increases their opportunity for producing highly rated publications in reputable journals, increasing knowledge generation and access to grant support. Networking with experts in the field of phytomedicine research and development is also made possible through exchange programmes locally and internationally further expanding the ability of faculty and students to expand their work. Additional incentives including support for manuscript writing and publication, exchange visits to partner institutions and conferences. Additional attention will be paid to ensure female staff and students are accessing these centre benefits.

Students in the Centre have the opportunity for internships with the Centre partners in the pharmaceutical industries, exposing them to practical and pragmatic approaches to phytomedicine and the production of research findings. They are also equipped with entrepreneurial and managerial skills that will help them enter the workforce more easily. This culminates to the development of a future of human resources in the health sector. Exchange programs for the region will allow regional students to benefit from the resources in teaching by faculty and facilities of the centre. Laboratories of international partners like the CSIR in South Africa and Sheffield Hallam University are open to the Centre for targeted learning by faculty for centre capacity building. To support regional student exchange some support for accommodations will be provided.

Incentive for Partners

The regional partners have agreed to engage in the project because of the gap it aims to address in the area of phytomedicine capacity building and research that will address the issues of alternative medicines in the region. The project will help them harness the biodiversity in their respective environments for the benefit of their socio-economic well-being and the development of the health system in the region both now and in the future because of the human resources being developed in this field. All partners appreciate the benefit in conferences, research publications, and outreach activities. Female scientists, minorities, and faculty from the region have also been specially considered. The aim is to encourage

women scientists and minority as much as possible to contribute in the development of their countries health system. The partners will also be sponsored to attend regional and internal conferences by the ACEPRD annually to represent their participation in the Center.

4.4 Roles and Responsibilities

Project Director and Centre Leader

The Project Director Prof. John C. Aguiyi is a pharmacologist, and pharmaceutical analyst, with vast experience in teaching, research and community service both locally and internationally. He has administrative experiences and has served at different levels of national and international academic boards, pharmaceutical, and leadership roles in the university. He is the current Dean of the Faculty of Pharmaceutical Sciences, Chairman of Committee of Deans of Pharmacy Schools in the Country, external examiners to institutions in Nigeria and the region. He will be responsible for the day-to-day administration, education, research, fiscal and working together with the advisory board, the project management team, the secretariat, to attain and maintain excellence in phytomedicine research and development.

Deputy Project Director

The Deputy Centre Leader Professor Francis K. Okwuasaba, a renowned Pharmacologist with vast experience in research, teaching and community service will assist the Project Director in ensuring the implementation of academic programmes in the Centre, and oversees research and development activities. He will always liaise with the departments in ensuring proper placement for regional students/faculty on exchange. He will work also with the monitoring and evaluation officer to evaluate project implementation and achievement of its objectives.

Secretary

The Centre Administrator and Secretary is Mr. Mark G. Kparmak. He shall be responsible for all logistics that will support the realization of the programme theory, arranging management and scientific meetings, arrange students and staff exchanges, workshops and conferences. Moving the timeline of the organizational aspects of the programme including prompting the management team and the project director will be one of his primary responsibilities.

M and E Officer

The Monitoring and Evaluation Officer Prof. Christiana Ugodulunwa is a Professor of Educational Foundation. She will also be responsible for the monitoring of all activities of the project and evaluating them to ensure the actualization of it goals and objectives and generating the reports on the deliverables as required by the project in its results based financing scheme.

Finance Officer

The Finance Officer, Mr Luke Ngwu is a senior accountant, trained by KPMG. This position should be A Certified National Accountant with proficiency in Microsoft excel, soft and hardware accounting computing system. He shall responsible for all the accounting, finance, reporting, audit, and budget implementation of the ACEPRD. He shall also be in custody of the University financial manual, audit manual. He shall design the system in conjunction with the centre management team and ensure strict adherence to the university and World Bank financial regulations.

Procurement Officer

The Procurement Officer Mr Micah Sattong is a Chief Accountant in the Bursary. He will be responsible for complying with World Bank procurement policies for the ACEPRD. He will pre-qualify all contractors and suppliers and open a bid for public procurement in compliance with national, university and World Bank procedures.

Head of Phytomedicine

The Head of PhytomedicineProf Felicia Ohiri will develop the curriculum in pharmaconosis and monitor the implementation. Additionally, she will establish linkages with herbal practitioners; manage the ACEPRD farm in GangnimLangtang South Area of Plateau State. She shall ensure the implementation of phytomedicine in other courses in the masters and PhD programme.

Head of Clinical Pharmacy

The Head of Clinical Pharmacy Dr Maxwell Dapar will coordinate the masters and PhD programmes in Clinical Pharmacy. He will ensure the integration of the Course and its application into Phytomedicine. He will ensure that students in the Centre understand their role after their studies on how to provide patient care that optimizes medication therapy and promotes health, wellness, and disease prevention by the application of phytomedicine. He will design the synergy between the practice of clinical pharmacy in phytomedical drug function, how it embraces the philosophy of pharmaceutical care; blends a caring orientation with specialized therapeutic knowledge, experience, and judgment for the purpose of ensuring optimal patient outcomes. As a discipline in phytomedicine, he will seek to establish how clinical pharmacy also has an obligation to contribute to the generation of new knowledge that advances health and quality of life.

Director of Information Communication Technology (ICT)

The Director of ICT Dr Tanko Ishaya is the current Head of ICT in the University and is committed to the ACEPRD project. He will be in-charge of promoting distribution of research publications and communications, setting up the ACEPRD internet platforms, e-learning, publishing all ACEPRD financial, procurement, audit and annual programmatic reports on the website. He shall be in-charge of bioinformatics curriculum development and implementation along with other Faculty.

Head of Library

The Head of Library Dr. Stephen Akintunde is an experienced Librarian. He shall bring his prior experience in partnership with the director of ICT to establish and manage an e-library for the centre, which also has the capability to disseminate research findings. Additionally he will maintain all catalogued textbooks and journals (electronic and print) for the centre.

Education Leaders

The education leaders of the ACEPRD project are Prof. M.N Sule and Prof. U.K Eke. Prof.Sule is focused on education with interests in sociological educational foundations. He will be responsible for overseeing the educational organization of the project and ensure that the education strategy of the Centre is realized. Prof. Eke, a professor of languages and linguistics will facilitate the teaching of English Language to our French-speaking partners.. He shall be in charge of translation and interpretation of document and conferences into English language for participating partners' assimilation.

Dean of the Post Graduate School

The Dean of the School of Postgraduate Studies position in the project management committee is to facilitate the processes of admission of students into the centre programme. Represent the Centre's postgraduate programmes and curricula in senate and senate curriculum committee of the University Adoption and approval.

4.5 Environment safeguards

(Insert the Environmental Management Plan and disclosed on your website, please list responsible staff

No displacement of population or destruction of vegetation is anticipated throughout the project period. All biological and chemical laboratory waste shall be disposed in accordance with national and international disposal guidelines. Laboratory animals shall be procured from relevant animal houses and maintained according to experimental animal use guidelines. The Faculty of Pharmaceutical Sciences has been involved in research in, biological testing, of herbal and natural products, snake vaccines experiments, however without negative impact on the environment. There are well-developed sewage and disposal processes of all chemical and consumable wastes.

To ensure continued safeguards, all clinical trials will commence with ethical clearance and follow strict clinical trial procedures. Any sign of negative environmental impact will be reviewed accordingly. The ethical committee is regulated by the National Health Research guidelines and has a strict sense of duty to protect the environment

Safe Laboratory practices are currently in place. Technologists and laboratory assistants are trained in anticipation of the activities that will be taking place. First aid boxes and shower are provided in all the laboratories as control and mitigation measures for any laboratory accident and will be included in any new facilities as part of the Centre.

During general renovation of offices and laboratories, interior demolitions will be controlled to minimize dust and noise. These measures will include the project management team liaising with the university management for temporary relocation of facilities by staff and students in such areas being renovated to avoid accident. Workers involved in the renovation will be provided with equipment and facilities that will protect them from direct contact with hazardous chemicals, sewage, or dust.

The project so far has not recorded any negative impact on the environment and the population as no displacement of population or destruction of vegetation is anticipated throughout the project period, as plants materials and products has no harmful effect on man. All biological and chemical laboratory wastes shall be disposed of according to international disposal guidelines.

5. PERFORMANCE MONITORING

Table 4: Disbursement Linked Indicators

Disbursement Linked Indicator	Action to be Completed	Amount (USD) of the Financing allocated Per DLI (expressed in Special Drawing Rights (SDR))	Amount (USD) Allocated per DLR for the Disbursement Calculation (expressed in SDR)
DLI 1: Regional specialization endorsed and institutional readiness	DLR 1.1: Center Regional Advisory Board endorsed a MoU promoting regional specialization through the ACEs DLR 1.2: Establishment of International Advisory Board Committee DLR 1.3: Creation of designated account/ endowment fund with rules of operation DLR 1.4: Signing of funding and performance contract between the University and the Government DLR 1.5: Signing of the partnership MOUs DLR 1.6: Approved Financial Management and procurement procedures and capacity	\$800,000	\$800,000
DLI 2: Excellence in education and research capacity and development impact	DLR 2.1 New Short-term Students: -489 National: 293 males & 196 females -210 Regional: 126 males & 84 females DLR 2.2 New Master students: -98 National: 68 males & 30 females -42 Regional: 26 males &17 females DLR 2.3 New PhD Students: - 18 National: 10 males & 8 females - 9 Regional: 5 males & 4 females DLR 2.4:	\$215,200 \$184,800 \$211,000 \$189,000 \$200,000 \$200,000	\$400,000 \$400,000 \$400,000
	Number of outreach "periods" for faculty and students. National: 200	\$400,000	

	Regional: 100	\$400,000	\$800,000
	DLR 2.5: International evaluation and accreditation of quality of education programs. National Accreditations (up to 2) International Accreditation (one)	\$200,000 \$600,000	\$800,000
	DLR 2.6: Published articles in internationally recognized and peer reviewed journals (22) papers co-authored regionally (16) national authored papers only (40)	\$200,000 \$600,000	\$800,000
	DLR 2.7: Externally generated revenue National revenue forecast (tuition, fees and grants) Regional revenue forecast (Tuition, fees and grants)	\$600,000 \$600,000	\$1,200,000
	DLR 2.8: Meeting milestones for improved learning and research environment specified in the Performance and Funding contracts - Improving learning environment facilities - Improving applied research environment - e-learning platform development - Learning equipment - Applied research equipment	\$335,688 \$50,000 \$390,000 \$400,000 \$424,312	\$1,600,000
DLI 3: Timely, transparent and institutionally	DLR 3.1: Timely withdrawal application supported by financial reporting for the ACE account for the period - 25,000/year x 4 years	\$100,000	
reviewed Financial Management	DLR 3.2: Functioning Audit Committee under the university council - 25,000/year x 4 years	\$100,000	
	DLR 3.3: Functioning internal audit unit for the university - 25,000/year x 4 years	\$100,000	
	DLR 3.4: Web Transparency on Financial management (web-access to audit reports, interim financial reports, budgets and annual workplan) - 25,000/year x 4 years	\$100,000	\$400,000

DLI 4:	DLR 4.1:		
Timely and	Timely procurement audit		
audited	- \$50,000/year x 4 years	\$200,000	
Procurement			
	DLR 4.2:		
	Timely and satisfactory procurement progress		
	- \$50,000/year x 4 years	\$200,000	\$400,000

6. DETAILED BUDGET

Table 5: Budget, 2014 – 2018 with split between partners

	Estimated Costs in (US\$)										
Expenditure Category	3.										
Expenditure dategory	Year 1	Year 2	Year 3	Year 4	Total	% of total					
	2014-2015	2015-2016	2016- 2017	2017- 2018							
A: Budget by Activity Plan											
Action Plan 1: Achieve Learning Excellence	839,260	780,000	545,000	545,000	2,709,260	33.87					
Action Plan 2: Achieve Applied Research Excellence	672,412	610,000	510,000	388,000	2,180,412	27.26					
Action Plan 3: Achieve Outreach of students and partners	249,650	385,000	385,000	385,000	1,404,650	17.56					
Action Plan 4: Achieve Center Operations and Management Excellence	206,875	106,035	106,000	106,000	524,910	6.56					
Action Plan 5: Strengthen Financial Stability	68,500	115,000	115,000	115,000	413,500	5.17					
Programme Management	10,000	10,000	10,000	10,000	40,000	0.50					
Contingency (10%)	204,669.70	200,603.5	167,100	154,900	727,273.2	9.09					
TOTAL	2,251,366.7	2,206,638.5	1,838,100	1,703,900	8,000,005.20	100					
%	28.14	27.58	22.98	21.30	100						
B: Budget by partners											
ACE leader- University of Jos, Nigeria	1,972,279.2	1,982,638.5	1,644,600	1,540,400	7,139,918.2	89.25					
University of Port Harcourt, Port Hartcourt, Nigeria	4,000	3,500	3,000	2,500	13,000	0.16					
NnamdiAzikiwe University, Awka, Nigeria	7,500	4,000	3,000	2,500	17,000	0.21					
Neimeth	-	1,000	500	500	2,000	0.02					

Europharm	-	1,000	500	500	2,000	0.02
BDCP	-	1,000	500	500	2,000	0.02
NIPRD	-	1,000	1,000	1,000	3,000	0.04
University of Buea, Cameroon	37,860	35,000	30,000	25,000	127,860	1.60
University of AbomeyCalayi, Benin Republic	38,710	35,000	30,000	25,000	128,710	1.61
University de Lome, Togo	75,110	55,000	45,000	40,000	215,110	2.69
University de Ouagadougou Burkina Faso	39,110	35,000	30,000	25,000	129,110	1.61
Kwame Nkrumah University of Science and Technology, Kumasi Ghana	34,460	30,000	30,000	25,000	119,460	1.49
CSIR	10,787.50	5,000	4,000	3,000	22,787.50	0.28
University of Siena, Italy	4,537.50	2,500	2,500	2,500	12,037.5	0.15
Ayurvedic University USA	9,225	4,000	3,500	3,000	19,725.5	0.25
Sheffield Hallam University, Sheffield, UK	17,787.50	11,000	10,000	7,500	46,287.50	0.58
Total partner budget	279,087.50	224,000	193,500	163,500	860,087.50	10.75
TOTAL	2,251,366.7	2,206,638.5	1,838,100	1,703,900	8,000,005. 2	100
% partner budget	12.40	10.15	10.53	9.60	10.75	

7. DETAILED ACTIVITY SHEETS

Action Plan 1: Achieve Learning Excellence

Timeframe: September 2014- December 2014

Activity 1.1: Design new curriculum and get approval for new short courses

RESULT	Center able to run 7 newly developed short courses with emphasis is on practically oriented learning and providing educational experience and expanded knowledge in phytomedicine							
ACTIVITY	Design new curriculum and get approval for new short courses							
OUTPUT	New curriculum designed for short courses in: 1. Protein isolation and purification: Dr. David Smith 2. Clinical Trials in Phytomedicine: Prof. Okwuasaba 3. Nanotechnology: Dr.Hulda Swai 4. Separation techniques in Phytomedicine: Prof. N.A Ochekpe 5. Vaccinology: Prof. J.C Aguiyi 6. Phytoremediation: Prof.A. Akwaranta 7. Traditional Medical Professional Training: Prof. F.C Ohiri Short courses approved by Center leadership							
OUTPUT INDICATOR 7 new curricula in: 1. Protein isolat 2. Clinical Trials 3. Nanotechnol 4. Separation te 5. Vaccinology: 6. Phytoremedi 7. Traditional M	SOURCE OF VERIFICATION • M & E- Prof CA Ugodulunwa • Center Administrator: Mark Kparmak							
IMPLEMENTATION MILESTONES		ate development of 7 new splete and approve short co						
PROCUREMENT	n/a							
RESPONSIBILITY FOR IMPLEMENTATION	Center Leader- Prof. J Deputy Center Leader							
DURATION: 3 months	Commence	ment: September 2014	Completion: December 2014					
PRIMARY CONSTITUENTS: • All Center Faculty • All Regional Faculty • All enrolled students • Traditional Healers • National/Regional Citizens		Prof. ODr.HuleProf. N	vid Smith Ikwuasaba da Swai I.A Ochekpe C Aguiyi					

					•	Prof. Akwaranta Prof. F.C Ohiri All enrolled short	course stu	dents
ASSUMPTIONS	Faculty a	nd student	s in regio	n want to	take shor	t courses		
FINANCIAL IMPLICATIONS								
Budget Line Analysis			1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qtr 5 th Qtr	6 th Qt	Total
	1 Curriculum development of short courses 7,500 7,500 7,500						7,500	
TOTALS	TOTALS 7,500							7,500

Timeframe: November 2014- June 2015

Activity 1.2: Enrol and run new short courses

RESULT	Successful enrolment and execution of 2 new short courses with expanded knowledge in phytomedicine: Traditional Medical Professional Training and Clinical Trials in Phytomedicine targeted at faculty, students and traditional practitioners.							
ACTIVITY	Enrol and run new short courses							
OUTPUT	Successful enrolment and	execution of 2 new short of	course					
OUTPUT INDICATOR Number of students enrolled in short course one: Traditional Medical Practice Number of students enrolled in short course two : Clinical trials in phytomedicine SOURCE OF VERIFICATION • Center administrator: Mark Kparmak • M & E officer: Prof. C.A Ugodulunwa								
IMPLEMENTATIO N MILESTONES								
PROCUREMENT	Consumables for short cou	urses						
RESPONSIBILITY FOR IMPLEMENTATIO N	 Center Leader- Presented Deputy Center Leader- Presented Dr. David Smith Prof. Okwuasaba Dr. Hulda Swai Prof. N.A Ochekp Prof. J.C Aguiyi Prof. Akwaranta Prof. F.C Ohiri 	eader- Prof FK Okwuasaba						
DURATION: 7 mon	ths	: November 2014	Completion: June 2015					
 Traditiona 	Faculty al Faculty d students	PARTICIPANTS: Dr. David Sr Prof. Okwus Dr.Hulda Sv Prof. N.A Os Prof. J.C Ag Prof. Akwar Prof. F.C Oh	asaba vai chekpe uiyi ranta					

ASSUMPTIO Students and faculty want to take courses Curriculum development completed and approved									
FINANCIAL IMPLICATIONS ACEPRD Budget									
Budget Line Analysis	1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total		
1 Advertising costs		2,500		2,500			5,000		
2 Lecture materials		200		200			400		
3 Consumables and supplies		7,000		8,000			15,000		
4 Operational costs for course		6,550		6,550			13,100		
TOTALS		16,250		17,250			33,500		

Timeframe: November 2014- June 2015

Activity 1.3: Design new curriculum and get approval for Masters Program

RESULT	New curriculum development and approval of masters program in Phytomedicine, Clinical Pharmacy, Biotechnology, Pharmaceutical Microbiology and Bioinformatics will improve the research capabilities of trained manpower and close the gaps between education, research and industry. This will also provide the pharmaceutical industry and the government agencies on drug quality control with adequate personnel.						
ACTIVITY	Design new curriculum and get approval for masters program						
OUTPUT	New curriculum designed for masters programs in: 1) Phytomedicine 2) Clinical Pharmacy 3) Biotechnology 4) Pharmaceutical Microbiology 5) Bioinformatics Masters program approved by university leadership						
OUTPUT INDICATOR 5 new curricula in the following Masters programs: • Phytomedicine • Clinical Pharmacy • Biotechnology • Pharmaceutical Microbiology • Bioinformatics							
IMPLEMENTATION MILESTONES	 November 2013: Initiate curriculum development of 2 new Masters programs (Phytomedicine, Clinical Pharmacy) January 2014: 2 Program curricula submitted to University Senate September 2014: Approval of 2 new masters programs curriculum December 2014: Initiate and complete development of 3 new Masters programs curriculum (Biotechnology, Pharmaceutical Microbiology, Bioinformatics) June 2015: Approval of 3 new Maters programs curriculum 						
PROCUREMENT	n/a						
RESPONSIBILITY FOR MPLEMENTATION Center Leader- Prof. JC Aguiyi Deputy Center Leader- Prof FK Okwuasaba Post graduate school representative- Prof.Warisu Alli Phytomedicine- Prof. F.C Ohiri Clinical Pharmacy- Dr. Maxwell Dapar Pharmaceutical Microbiology-Prof. I.S Okafor Bioinformatics- Dr. Ishaya Tanko Biotechnology- Prof. B.A Ajala							

DURATION: 20 m	onths	Con	Commencement: Nove			.3	Completion: June 2015		
PRIMARY CONSTITUENTS: • All Center Faculty • All Regional Faculty • All current and prospective students					PARTICIPANTS: University Senate Center Leadership Faculty curriculum leaders Post Graduate School				
ASSUMPTIONS	-	omplete cu eets regula	olete curriculum on schedule s regularly						
FINANCIAL IMPLICATIONS		ACEPR BU	ıdget						
Budget Line Analysis			1 st Qtr	2 nd Qt	3 rd Qtr	4 th Q	t 5 th Qtr	6 th Qt	Total
1 Curriculum Design 415 41			415	415				1,245	
TOTALS			415	415	415				1,245

Timeframe: April 2014- October 2014

Activity 1.4: Enrol and run new Masters Programs

RESULT	Successful enrolment and execution of new masters programs with expanded knowledge in Phytomedicine Clinical Pharmacy, Biotechnology, Pharmaceutical Microbiology and Bioinformatics							
ACTIVITY	Enrol and run Masters programs							
ОИТРИТ	Successful enrolment and exe	cution of new Master	s programs					
	nrolled in Phytomedicine Maste nrolled in Clinical Pharmacy Mas	rs program	 SOURCE OF VERIFICATION University Senate School of PG studies 					
IMPLEMENTATION MILESTONES	April 2014: Advertisement of Masters programs September 2014: Initiate procurement of consumables for masters programs September 2014: Enrol students in Masters program October 2014: Run first 2 Masters programs in Phytomedicine and Clinical Pharmacy							
PROCUREMENT	Consumables for laboratory w	Consumables for laboratory work						
RESPONSIBILITY FOR IMPLEMENTATION	 Center Leader- Prof. Deputy Center Leade Post graduate school Department of Phyto Department of Clinical 	r- Prof FK Okwuasaba faculty representativ	es hiri					
DURATION: 15 month	Commencement: Ap	pril 2014	Completion: June 2015					
PRIMARY CONSTITUEN All Center Factor University Co All Regional F All current an	culty mmunity	PARTICIPANTS: University Senate Center Leadership Faculty curriculum leaders Post Graduate School Center Faculty Accepted and enrolled students						
ASSUMPTIONS Students and faculty want to receive Masters degree Curriculum development of 2 new Master programs completed and approved								
FINANCIAL IMPLICATIONS	ACEPRD Budget							

Budget Line Analysis	1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total
1 Advertisement costs		1,250		1,25 0			2,500
2 Operational Costs		80,50 0					80,500
TOTALS		81,75 0		1,25 0			83,000

Timeframe: November 2014- June 2015

Activity 1.5: Design new curriculum and get approval for PhD programs

RESULT	Clinical F	New curriculum development and approval of PhD program in Phytomedicine, Clinical Pharmacy, Biotechnology, Pharmaceutical Microbiology and Bioinformatics							
ACTIVITY	Design n	Design new curriculum and get approval for PhD program							
OUTPUT	Biotechn	New curriculum designed for PhD programs in; Phytomedicine, Clinical Pharmacy, Biotechnology, Pharmaceutical Microbiology, Bioinformatics PhD program approved by center and university leadership							
OUTPUT INDICATOR 5 new curricula in th	iine rmacy gy tical Microbi			SOURCE OF VERIFICATION University Senate School of PG studies					
IMPLEMENTATION MILESTONES	PhytoJanuaSeptoDececurri	omedicine and Clinical F ary 2014: 2 PhD program ember 2014: Approval c ember 2014: Initiate and	Pharmacy m curricula submitt of2 new PhD progra I complete develop Pharmaceutical Mic	oment of 3 new PhD programs crobiology, Bioinformatics)					
PROCUREMENT	n/a								
RESPONSIBILITY FOR IMPLEMENTATION	OR Center Leader- Prof. JC Aguiyi								
DURATION: 20 mon	ths	Commencement: Nov	vember 2013	Completion: June 2015					
PRIMARY CONSTITUENTS: • All Center Faculty • All Regional Faculty			PARTICIPANTS: University Senate Center Leadershi						

All current and prospective students					Faculty curriculum leaders Post Graduate School Center Faculty Accepted and enrolled students				
ASSUMPTIONS Faculty complete curriculum on schedule Senate meets regularly									
FINANCIAL IMPLICATIONS ACEPR D Budget									
Budget Line Analysis			1 st Qtr	2 nd Qt	3 rd Qt	r 4 th Qt	5 th Qtr	6 th Qt	Total
1 Curriculum Design				415	41 5	415			1245
TOTALS				415	41 5	415			1245

Timeframe: April 2014 – June 2015

Activity 1.6: Enrol and run PhD programs

RESULT	Successful enrolment and exec and Clinical Pharmacy.	cution of two new I	PhD programs in Phytomedicine			
ACTIVITY	Enrol and run PhD programs					
OUTPUT	Successful enrolment and exec	cution of two new F	PhD programs			
OUTPUT INDICATOR Number of students enrolled in new Phytomedicine PhD program Number of students enrolled in new Clinical Pharmacy PhD program • University Sen • School of PG s						
IMPLEMENTATION MILESTONES	April 2014: Advertisement of P September 2014: Initiate procu September: Enrol students in F October 2014: Run first 2 PhD	urement of consum PhD programs	nables for PhD programs medicine and Clinical Pharmacy			
PROCUREMENT	Consumables for laboratory we	ork				
IMPLEMENTATION	Post graduate schoolDepartment of Phytor	ical Pharmacy PG Board of. F.C Ohiri				
DURATION: 7 month	s Commencement: Ap	oril 2014	Completion: June 2015			
PRIMARY CONSTITUE	oculty ommunity	PARTICIPANTS:				
ASSUMPTIONS Students and faculty want to receive PhD degree Curriculum development of 2 new PhD programs completed and approved						
FINANCIAL IMPLICATIONS						

Budget Line Analysis	1 st Qt	2 nd Qt	3 rd Qt	4 th Qt	5 th Qt	6 th Qt	Total
1 Consumables and supplies		52,00 0					52,000
TOTALS							52,000

Timeframe: September 2014- November 2014

Activity 1.7: e-learning platform development

Ready availability of educational resources including journals, e-texts, lecture materials, and center information expanding the resources available to students and faculty.								
e-learnii	e-learning platform development							
Function	nal e-learning platform							
n place es purchas	es		SOURCE OF VERIFICATION Dr. Stephen Akintunde: University Librarian ICT Director: Dr Ishaya Tanko Financial Officer: Mr Luke Ngwu					
September 2014: Functional Center website November 2014: Initiation and completion of Improved Internet capabilities								
	Bandwidth/router/server upgrade e-journals and e-texts							
•	University Librarian: Dr Procurement Officer: N Financial Officer: Mr Lu	r. Stephen Akintund ∕Ir. Micah Sattong uke Ngwu						
S	Commencement: Sept	tember 2014	Completion: November 2014					
:NTS: faculty		LibrarialProcureFinanciaUnit LeaAll facul	onal faculty					
	materia faculty. e-learnii Function n place es purchas Septemi Novemb Bandwic e-journa s NTS:	materials, and center information faculty. e-learning platform development Functional e-learning platform n place es purchases September 2014: Functional Center November 2014: Initiation and officer and e-journals and e-texts ICT Director: Dr Ishaya University Librarian: Dr Procurement Officer: Mr Financial Officer: Mr L Unit Leaders for individuals Commencement: September 2014: Functional Center of the content of th	materials, and center information expanding the refaculty. e-learning platform development Functional e-learning platform n place es purchases September 2014: Functional Center website November 2014: Initiation and completion of Impr Bandwidth/router/server upgrade e-journals and e-texts ICT Director: Dr Ishaya Tanko University Librarian: Dr. Stephen Akintunc Procurement Officer: Mr. Micah Sattong Financial Officer: Mr Luke Ngwu Unit Leaders for individual departments: Commencement: September 2014 ENTS: Faculty PARTICIPANTS: ICT Office Librarian Procure Financia Unit Lea All facult All region					

	NNCIAL LICATIONS	ACEPR Budget							
Bud _{	get Line lysis		1 st Qtr	2 nd Qtr	3 rd Qt	4 th Qtr	5 th Qtr	6 th Qt	Total
	Purchasing/subscriptions of e- journals/e-text			6,000					6,000
2	2 Web design			2,000					2,000
	3 Upgrade current internet capabilities		50,000						50,000
	4 Software purchasing for web capabilities		50,000						50,000
ТОТ	TOTALS		100,00	8,000					108,000

Timeframe: September 2014 to October 2014

Activity 1.8: Running of English as second language courses

RESULT		Improvement of language comprehension and ability of non-English speaking partners to participate in the Centre's learning opportunities						
ACTIVITY	Running of English as a secon	Running of English as a second language courses						
ОUТРUТ	Completed language courses	Completed language courses						
	R s receiving language support receiving language support		SOURCE OF VERIFICATION Center Administrator: Mark Kparmak					
IMPLEMENTATION MILESTONES	September 2014- ESP Curricu October 2014- Application of	· · · · · · · · · · · · · · · · · · ·	approved					
PROCUREMENT	Language teachers Translation instruments							
RESPONSIBILITY FO								
DURATION: One N commencing from September annual	30 th of	30/9/2014	Completion: 30/10/2014					
PRIMARY CONSTIT All faculty All regions All studen		 All stu Deparinguis Deparinguis Deparinguis Sule Centre 	ulty ional faculty dents tment of Languages and stics: Prof. U.K Eke tment of Education: Prof. M.N e Leader: Prof. J.C Aguiyi y Centre Leader: Prof. F.K					
ASSUMPTIONS Need for English language skills Availability of language teachers and translators Translating equipment								

	IANCIAL PLICATIONS	ACEPRD Budget							
	dget Line alysis		1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qt	6 th Qt	Total
1 English Language Course design		3,000						3,000	
2	Translation Instruments: Transmitters (10), Receivers (10)		5,670						5,670
3	3 Language Teachers		0						0
то	TOTALS		8,670						8,670

Timeframe: September 2014 – February 2015

Activity 1.9: Upgrade and Refurbishment of learning facilities and resources

RESULT	learning accessil	Availability of teaching infrastructures. The facilities refurbished has improved learning by students and teaching by faculty, e.g internet facilities more accessible to faculty and students, animal house in better condition, classrooms and laboratories well illuminated and furnished.								
ACTIVITY	Upgrad	Upgrade and Refurbishment of Learning facilities and Resources								
OUTPUT	Refurbi	shed and Upgraded learning infrast	ru	ictures completed						
OUTPUT INDICATOR Number of classroor Number of laborator Number of animal h Mushroom house re Number of offices re	ms refurb ries refurl ouses ref furbished	oished urbished I		SOURCE OF VERIFICATION • Finance Officer: Like Ngwu • Centre Administrator : Mark Kparmak • Procurement Officer: Mr Micah Sattong • University Director of Physical Facilities						
IMPLEMENTATIO N MILESTONES		ber 2014-Process of refurbishment y 2015 –Refurbishment ends	st	tarts						
PROCUREMENT		ls for refurbishment of classrooms, shroom houses	la	aboratories, offices, animal house						
RESPONSIBILITY FOR IMPLEMENTATIO N Center Leader- Prof. JC Aguiyi Deputy Center Leader- Prof F.K Okwuasaba Procurement Officer: Mr. Micah Sattong Finance Officer: Mr Luke Ngwu University Director of Physical Facilities										
DURATION: 5 month	hs	Commencement: September2014		Completion: February 2015						

PRIMARY CONSTITUENTS: Centre Leadership University Community All current and prospective students					PARTICIPANTS: Consultants Director of Physical Facilities: Mrs.Hauwa Auta Heads of Animal and Mushroom Houses: Mr Luka Wazoh Centre leadership: Prof. J.C Aguiyi				
ASSUMPTIO NS	Readine	ss of infra	structı	ures and i	esoui	rces for lea	rning		
FINANCIAL IMPLICATIONS	5	ACEPRD	Budg	et					
Budget Line Analysis 1st Qt r 2ndQtt					3 rd Qti		5 th Qtr	6 th Qtr	Total
1 Equipmen projectors	-			56,00 0					56,000
2 Infrastructure upgrades/refurbishment: Animal House (4), Mushroom House (1)			41,00 0					41, 000	
3 Laboratories (11)		50,60 0					50,600		
4 13 Offices and 8 Lecture 30,00 Halls									30,000
TOTALS				177,6 00					177,600

Timeframe: September 2014 – October 2014

Activity 1.10: Curriculum development of English as Second language

RESULT	for teach	New English as a Second Language Program curriculum developed and approved for teaching of foreign partner students to improve their access to the centre's educational and applied research offerings.								
ACTIVITY	Curriculu	Curriculum development of English as Second language								
ОИТРИТ	Availabili	ty of New Engl	ish as a S	econd Language (curriculum					
OUTPUT INDICATOR ESP Curriculum developed Curriculum approved for use SOURCE OF VERIFICATION ACEPRD University Senate										
IMPLEMENTATION MILESTONES				lum design and cunentation begins		-				
PROCUREMENT	N/A									
RESPONSIBILITY FOR IMPLEMENTATION	Language Faculty in the Centre: Prof. U.K Eke Department of Education: Prof. M.N Sule Deputy Centre Leader: Prof. F.K Okwuasaba									
DURATION: 1 month		Commencem	ent: Sept	tember2014	Completi	tion: October 2014				
	Faculty					PARTICIPANTS: Students of ESP Language Teachers Centre Faculty PG School				
ASSUMPTIONS Part	ASSUMPTIONS Partner students will understand and study in English language									
FINANCIAL ACEPRD Budget IMPLICATIONS										
Budget Line Analysis		1 st Qtr	2 nd Qt	3 rd Qtr 4 th Qt	5 th Qtr	6 th Qt	Total			
1 Advertisement for position N/A										

2 ESP Curriculum design	500			500
TOTALS				500

Timeframe: October 2014-September 2015

Activity 1.11: Hostel accommodation at the university for students

RESULT	Hostel available for Centre st find ease in settling for their incentivize foreign students t	studies on arrival. Ap						
ACTIVITY	Hostel accommodation at the university for students							
OUTPUT	Hostel accommodations available for students of the centre							
OUTPUT INDICATOR Number of students being accommodated in the hostel Number of female students being accommodated in the hostel Centre Administrator: Mark Kparmak								
IMPLEMENTATION MILESTONES September 2014-Student applications to the University Directorate of Student Affairs October 2014- Equip hostels by renovation and acquisition of modest facilities. November 2014-Hostel open to students								
PROCUREMENT	Furniture, refurbishment of toilets, beds, power and water							
RESPONSIBILITY FOR IMPLEMENTATION	Centre Deputy Leader Finance Officer Procurement Officer Centre Administrator Directorate of Student Affairs							
DURATION: 1 year	Commencement: C	October 2014	Completion: September 2015					
PRIMARY CONSTITUENTS: Students Directorate of Student Affairs ACEPRD Faculty PARTICIPANTS: Directorate of Student Affairs Centre Administrator ACEPRD								
ASSUMPTIONS The university will agree to allocating some of its existing hostel facilities to the centre								
FINANCIAL ACEPRD Budget IMPLICATIONS								
Budget Line								

An	alysis			
1	Accommodation (New Master students: -National: 10 -Regional:26	54,00		54,000
2	Accommodation (New PhD Students: -National: 3 -Regional:5	12,00		12,000
то	TALS	66,00		66,000

Timeframe: December 2014-May 2015

Activity 1.12: Improving Learning Equipment

RESULT	-	Exposure of students to experimental tools on phytomedicine research to prepare them for entry into the job market in phytomedicine.					
ACTIVITY	Improving learning Equipment						
ОИТРИТ		Use of available laboratory learning equipment for MSc. and PhD students for analysis for their course work and learning of phytomedicine techniques					
	-		ne analytical procedures, f equipment by student/f	_	SOURCE OF VERIFICATION -Laboratory attendance register: Sola Motunbade ACEPRD Chief Laboratory Technologist: Motunbade Sola Use of equipment register: Micah Sattong		
IMPLEMENTATION MILESTONES	-	-	Consumables for analysis laboratory equipment ins	-			
PROCUREMENT	Basic Lab	poratory analytical equi	pment				
RESPONSIBILITY FOR IMPLEMENTATION	Finance Centre L	ment Officer: Micah Sai Officer: Luke Ngwu eader: Prof. J.C Aguiyi Centre Leader: Prof. Fra	-				
DURATION: 6 months	DURATION: 6 months Commencement: December 2014 Completion: May 2015						
PRIMARY CONSTITUENT Departments: Clinical Pr Microbiology, Phytomeo Biotechnology Laboratories for the new Students both local and	narmacy, Pl dicine, Bioin	nformatics and	PARTICIPANTS: Departments: Clinical P Microbiology, Phytome Biotechnology Laboratories: for the ne Students: both local an	dicine, Bioi	nformatics and		

Technologists in the Laboratories headed by the Chief Technologists: in the Laboratories headed by the Chief Technologist **Technologist** Faculty: Centre Faculty Faculty: Centre Faculty **ASSUMPTIONS** The availability of learning equipment for phytomedicine available in the region FINANCIAL IMPLICATIONS **ACEPRD** Budget 2ndQtr 3rdQtr 5thQtr 6thQt 1stQtr 4thQtr **Budget Line** Total Analysis 1 Laboratory Equipment and 50,000 50,000 supplies Cardiovascular pharmacology and infectious diseases - Equipment for noninvasive CVS measurements, invasive CVS measurements, 11TC Restrainers for mice and rats; Surgical instruments and accessories, data capsule recorder, pressure transducers, isotonic, isometive, lager doff recorder, oxygen cylinder, patch clamp machine 2 Immunopharmacology and 50,000 50,000 Molecular biology clinical -120oC refrigerator, Lyophilize

	and 1500-300, Tissue culture (competent) 1000-1800, Pcr machine, flow cytometry system, flocytometer 1300- 15500, color 40,000-45,000, Cd4 machine 2000-14000			
3	Reproductive and GIT Pharmacology — Homonoassayanalyzer, digital biological microscope, metabolic cages, digital microscope, advanced auto biochemical analyzer	40,000		40,000
4	Toxicology and Virology - Automated hermatologyanaylyzer, high speed refrigerator catotige, microtome, electron microscope 120,000-150,000,	40,000		40,000

	camera, 3.5 inches electron machine			
5	Endocrine Pharmacology - Homorodanalyzer, stretozotoare, alloxan		30,000	30,000
6	Caspian Schizophrenias Psychosis - 11TC expandable treadmill and rota rod, activity monitoring system — Harvard, 11TC plantar analgesia meter for paw and tail, stimulation, pleftimanoneter, marbles, maze	50,000		50,000
7	Parasticology/Malaria – Amino acid analyzers, incubators 1000-1500, proximate analyzer 23,000- 26,000		40,000	40,000
ТОТА	ALS	150,000	150,000	300,000

Timeframe: September 2014- April2015

Activity 2.1: Applied research skills for faculty and students

RESULT	Strengthened faculty and students problem-solving, grant writing, mentorship and entrepreneurial skills for applied phytomedicine research and development to increase publication and production of research findings and results						
ACTIVITY	Applied research skills for faculty and Students						
OUTPUT		Faculty with improved skills in applied research to increase publication and production of research findings and results					
Number of students/fa Technique and Experin	rant writing workshop students in manuscript writing aculty and technologists at wor	kshop on Laboratory	lication	SOURCE OF VERIFICATION Centre Administrator: Mark Kparmak			
IMPLEMENTATION MILESTONES	September 2014-May 2015-E results November 2014 Manuscrip January 2015-Grant writing V March 2015-Workshop on La Students and Technologists May 2015-Workshop on pate	t writing workshop fo Vorkshop for faculty a boratory Technique a	r Faculty ar and student nd Experim	nd Students ts nentation for Faculty,			
PROCUREMENT	N/A						
RESPONSIBILITY FOR IMPLEMENTATION	Centre Leader: Prof. J.C Aguiy Deputy Centre Leader: Prof. I Centre Administrator: Mark I Monitoring and Evaluation O	F.K Okwuasa (parmak	ulunwa				
DURATION: 9 months	Commencement: S	September 2014	Completi	ion: May 2015			
PRIMARY CONSTITUEN Faculty Students	ITS:	PARTICIPANTS: Workshop Facilit Partner and Loca					

FINANCIAL ACEPRD Budget IMPLICATIONS								
	dget Line alysis	1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total
1	Operational costs for grant writing workshop		15,40 0					15,400
2	Airfare/accommodation/ honorarium for facilitators for Grant Writing Workshop		10,50 0					10,500
3	Operational costs for Manuscript workshop		15,40 0					15,400
4	Airfare/accommodation/ honorarium for facilitators for Manuscript Workshop		10,50 0					10,500
5	Lab training costs/workshops				500			500
5	Workshop on patent and property right application procedures				15,400			15,400
6	Airfare/accommodation/ honorarium for facilitators for Workshop on patent and property right application procedures				10,400			10,400
то	TALS		51,80 0		26,400			78,200

Timeframe: March 2015 -September 2015 **Activity 2.2:** Field sample study and collection

RESULT		Raw materials for training and research of students and faculty available for use in bioassay, phytochemical studies, and other relevant studies.					
ACTIVITY	Field sam	Field sample study and collection					
ОИТРИТ	Raw mat Centre	Raw materials: 20 medicinal plants collected from the field and available at the Centre					
OUTPUT INDICATOR Digital herbarium of those new plants collected Pharmacopeia addition of new plants 20 new phyto-raw materials available at the Centre for research Centre Prof. F.C Ohiri Head of Phytomedicine							
IMPLEMENTATION MILESTONES		015-Field sample study 015-Collection of samp		and docume	ntation		
PROCUREMENT	N/A						
RESPONSIBILITY FOR IMPLEMENTATION	Deputy C	eader: Prof. J.C Aguiyi Eentre Leader: Prof. F.K Phytomedicine; Prof. F					
DURATION: 6 months		Commencement: Ma	arch 2015	Completic	on: August 2015		
PRIMARY CONSTITUENTS: Local Faculty Local and regional Students PARTICIPANTS: ACEPRD Farm Manager ACEPRD Chief Technologist Enrolled students ACEPRD Faculty							
	Availability of all the raw materials needed for students and faculty research on phytomedicine						
FINANCIAL IMPLICATIONS							
Budget Line Analysis		1 st Qtr 2 nd Qt	3 rd Qtr 4 th Q	5 th Qtr	6 th Qt Total		

1 Fuelling of vehicle	400	100	800
2 Field team food	600	500	1,200
TOTALS	1,000	00,0	2,000

Timeframe: December 2014-May 2015

Activity 2.3: Lab based sample analysis for students

RESULT		e of students to experin ment in their skills and		-			
ACTIVITY	Lab base	d sample analysis for st	cudents (basic lab e	equipment)			
OUTPUT Use of available basic laboratory equipment by MSc. and PhD students for analysis							
OUTPUT INDICATOR Number of St	udents par	ticipating in phytomed	icine analytical pro	ocedures	SOURCE OF VERIFICATION -Laboratory attendance register: Sola Motunbade ACEPRD Chief Laboratory Technologist: Motunbade Sola Use of equipment register: Micah Sattong		
IMPLEMENTATION MILESTONES	-	er 2014-January 2015- 2015-May 2015-basic					
PROCUREMENT	Basic Lab	oratory analytical equi	pment				
RESPONSIBILITY FOR IMPLEMENTATION	Finance (Centre Lo Deputy (nent Officer: Micah Sar Officer: Luke Ngwu eader: Prof. J.C Aguiyi Centre Leader Chief Tech: Shola Motu					
DURATION: 6 months							
PRIMARY CONSTITUENTS: Departments: Clinical Pharmacy, Pharmaceutical Microbiology, Phytomedicine, Bioinformatics and Biotechnology Laboratories for the new departments PARTICIPANTS: Departments : Clinical Pharmacy, Pharmaceutical Microbiology, Phytomedicine, Bioinformatics and Biotechnology Laboratories: for the new departments					e, Bioinformatics and		

Te	idents both local and regional chnologists in the Laboratories he chnologist culty: Centre Faculty	Students: both local and regional Technologists: in the Laboratories headed by the Chief Technologist Faculty: Centre Faculty					
AS	SUMPTIONS Students ability to	use basic l	aborator	y equipmeı	nt and analy	tical procedu	ures
1	IANCIAL ACEPR PLICATIONS	D Budget					
Budget Line 1stQtr Analysis			2 nd Qtr	3 rd Qtr	4 th Qt 5	h th Qtr 6 th C	Qt Total
1	Lab consumables and supplies		17,50 0				17,500
2	Experiment processing	6,500					6,500
4 Laboratory manuals for students							2,000
ТО	TALS	19, 500				26,000	

Timeframe: February 2015-August 2015

Activity 2.4: Publication submission

RESULT		on of findings in peer-r ge in the field of phyto	-	increased contributions of		
ACTIVITY	Support	Support for publication and preparation of manuscripts for submission				
OUTPUT	Publicati	ons submitted in peer-	reviewed journals			
OUTPUT INDICATOR Number of manuscripts submitted for review and publication Dr.Ishaya Tanko Head of ICT Librarian: Dr Stephen Akintur						
IMPLEMENTATION MILESTONES	,					
PROCUREMENT	Subscript	tion to journals and pu	blication fees			
RESPONSIBILITY FOR IMPLEMENTATION						
DURATION: 6 months		Commencement:Feb	ruary2015	Completion: August 2015		
PRIMARY CONSTITUEN Centre Leader: Prof. J. Head of Research and ACEPRD Departments: Clinical Pharmacy- Dr. Pharmaceutical Microl Bioinformatics- Dr.Isha Biotechnology- Prof. B Students: Local and Re Faculty: Local/Regiona	C Aguiyi Publication Phytomed Maxwell D Diology-Pro Dya Tanko .A Ajala Igional	dicine- Prof. F.C Ohiri Dapar	Tanko ACEPRD Departn Ohiri Clinical Pharmac	n and Publications: Dr Ishaya nents Phytomedicine- Prof. F y- Dr. Maxwell Dapar Microbiology-Prof. I.S Okafor Dr.Ishaya Tanko Prof. B.A Ajala pcal and Regional	.c	
ASSUMPTIONS Pub	lications fo	or training and research				

FINANCIAL IMPLICATIONS	ACEPRD Budge	et					
Budget Line Analysis		Qtr 2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total
1 Publication submiss	ion fees	5,000					5,000
3 Subscription fees: (Science)	Web of	35,00 0					35,000
TOTALS		40,00	5,000				40,000

Timeframe: September 2014-August 2014

Activity 2.5: Maintaining animal facility for laboratory tests

RESULT	Standard animal house for experimental phytomedicine research using animals (in vivo and in vitro studies),to validate traditional claims by herbal practitioners on such plants								
ACTIVITY	Maintain	ing animal facility for la	aboratory tests						
OUTPUT	Well-mai	intained animal facility	available						
OUTPUT INDICATOR Number of experiment Number of different to		s available perimental animals avai	ilable		SOURCE OF VERIFICATION -ACEPRD Chief Technologist: Mr Luka Wazoh Head of Animal House: Mr. Shola Motunbade Animal house records for different animals				
IMPLEMENTATION MILESTONES	Septemb	er 2014-purchase of ar	nimals for breeding	3					
PROCUREMENT	Animal s	ubjects, animal feeds, o	cages, water bottle	s, disinfecta	nts				
RESPONSIBILITY FOR IMPLEMENTATION	Finance (nent Officer: Mr Micah Officer: Mr Luke Ngwu Chief Technologist: Mr eader: Prof J.C Aguiyi	_	Sola Motunb	ade				
DURATION: 1 year		Commencement: Sep	otember 2014	Completio	n: August 2015				
PRIMARY CONSTITUENTS: Faculty who utilize animals for research Students who utilize animals for research Animal House PARTICIPANTS: Staff of Animal House Students Faculty									
ASSUMPTIONS Exp	erimental a	animals available for te	sts						
FINANCIAL ACEPRD Budget IMPLICATIONS									

	dget Line alysis	1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total
1	Maintaining animal facility	1,000	1,000	1,000	1,000			4,000
2	Maintaining the animals for laboratory testing	1,000	1,000	1,000	1,000			4,000
3	Animal subjects	1,000	1,000	1,000	1,000			4,000
4	Feeds, cages, water bottles, and disinfectants	15,700	1,000	1,000	1,000			18,700
ТО	TALS	18,700	4,000	4,000	4,000			30,700

Timeframe: May 2015 - December 2015

Activity 2.6: Core specialized research equipment

RESULT	researd	pecialized research equi th to improve skills, kno nedicine for the nation a	wledge, human res		
ACTIVITY	Core sp	ecialized research equip	oment		
ОИТРИТ	Availab	ility of core research eq	uipment in the Cen	tre	
	of core resea of Technolog	rch equipment and acce			SOURCE OF VERIFICATION -Equipment use register: Procurement Officer: Micah Sattong -ACEPRD Chief Technologist: Mr Sola Motunbade -Students -Faculty
IMPLEMENTATIO MILESTONES	May 20	115 December 2015- pui	rchase of core equip	oment, accesso	ories and installation
PROCUREMENT	Core re	search equipment and a	accessories and con	sumables	
RESPONSIBILITY FOR IMPLEMENTATIO	Procure Finance	Leader Centre Leader: Prof J.C ement Officer: Mr Mical e Officer: Luke Ngwu D Chief Technologist: So	n Sattong		
DURATION: 7 mg	onths	Commencement: Ma	ay 2015	Completion:	December 2015
PRIMARY CONST Faculty Students Laboratories	ITUENTS:		PARTICIPANTS: ACEPRD Chief Te Equipment Vend Laboratories Procurement off Center leader: Pr	ors icer: Micah Sat	
ASSUMPTION S	Core researc	h equipment available f	or research by stud	ents and facult	ту

	IANCIAL PLICATIONS	ACEPRD	Budget						
	dget Line alysis		1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total
1	Purchase of equipmen NMR – NMReady 60P				43,000				43,000
2	HPLC – Agilent 1200 se	eries			35,000				35,000
3	Freight/Clearing (5% e	each)			14,210				14,210
4	Refurbishment of equi Rotary Evaporator ref circulator Thermo-Hak K20 (3 units)- \$3,419 e Freeze Dryer Shell free Labcono LC-CE-794904 Unit) - \$5,035; AGC-MPLC Fraction co spectrum chromatogra 1(2 units) - \$2,155 eac	frigerated se C10- each; ezer – 40(1 ollector aphy CF-			19,602				19,602
5	Procurement of equiping Rotary tablet press — r. B3B					105, 000			105,000
6	Differential scanning N DSC1, Calorimeter and accessories Toledo					123, 000			123,000
7	Equipment procureme deployment and implementation	ent,			40,000				40,000
8	Accessories				10,000				10,000

9 Consumables	10,000			10,000
TOTALS	216,312	228,000		444,312

Timeframe: December 2014-August 2015 **Activity 2.7:** Center Monthly seminar

RESULT		on of Researd research act			lty to pro	mote colla	aboration	and	
ACTIVITY	Center mor	nthly semina	r						
OUTPUT	Research fi	Research findings disseminated							
OUTPUT INDICATOR Number of seminars on research findings Number of attendees at each research seminar Dr.Ikoni Ogaji -Seminar time- table -Attendance register								CATION i Ogaji ar time- lance	
IMPLEMENTATION MILESTONES	December 2014-August 2015 Monthly seminars from								
PROCUREMENT	N/A								
RESPONSIBILITY FOR IMPLEMENTATION	M and E Of	der: Prof. J.C ficer: Prof. C ninistrator: N	.A Ugodu	ılunwa	tre Leade	er: Prof. F.I	K Okwuas	saba	
DURATION: Monthly		Commencem	ent: Dec	ember 201	.4	Completi	on: Augu	st 2015	
PRIMARY CONSTITUEN ACEPRD student/facu Tele-conference for co students/faculty		PARTICIPANTS: Centre Leader: Prof. J.C Aguiyi Deputy Centre Leader: Prof. F.K Owuasaba M and E Officer: Prof. C.A Ugodulunwa Centre Administrator: Mark Kparmak Faculty: ACEPRD Students: Centre partners							
ASSUMPTIONS The	re are researd	ch findings to	dissemi	nate					
FINANCIAL IMPLICATIONS									
Budget Line		1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total	

An	alysis						
1	Hospitality (Refreshment) for 50 students and faculty participants	300	300	30 0	300		1,200
ТО	TALS	300	300	30	300		1,200

Time frame: May 2015 - December 2015

Activity 2.8: Improving research environment facilities

RESULT		h facility for faculty and ative skills, knowledge,				
ACTIVITY	Improvir	ng research environme	nt facility			
OUTPUT	Availabil	ity of research facility i	n the Centre			
	of research fac	illities in use in the Cen ts, students, and facult		the facility	SOURCE OF VERIFICATION -Equipment use register: Procurement Officer: Micah Sattong -ACEPRD Chief Technologist: Mr Sola Motunbade -Students -Faculty	
IMPLEMENTATION MILESTONES	N May 201	.5 December 2015- pur	chase and installation	of research fa	cility	
PROCUREMENT	Research	n facility upgrade suppl	ies			
RESPONSIBILITY FOR IMPLEMENTATION	N Procurer Finance	eader Centre Leader: Prof J.C ment Officer: Mr Micah Officer: Luke Ngwu Chief Technologist: Sol	Sattong			
DURATION: 7 mo	nths	Commencement: Ma	ıy 2015	Completion	: December 2015	
PRIMARY CONSTI Faculty Students Laboratories	TUENTS:		PARTICIPANTS: ACEPRD Chief Techn Equipment Vendors Laboratories Procurement officer Center leader: Prof.	: Micah Satto		
ASSUMPTIONS Research facility available for research by students and faculty						

	NANCIAL PLICATIONS	ACEPRD E	Budget						
	dget Line alysis		1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total
1	Installation of Stability shelf life chamber, cold tissue and cell culture				50,000				50,000
ТО	TALS				50,000				50,000

Action Plan 3: Achieve outreach

Timeframe: September 2014-October 2014

Activity 3.1: Annual partner site visit

RESULT	applied	s are incentivized on Ce research and networkir edicine research and de	ng opportunities ava						
ACTIVITY	Annual p	Annual partner site visit							
OUTPUT	Full part	ull participation of partners in the ACEPRD project							
OUTPUT INDICATOR Number of vi	sits to part	tner			SOURCE OF VERIFICATION M&E records: Prof. C.A Ugodulunwa Centre Administrator: Mark Kparmak Centre Leader: Prof. J.C Aguiyi				
IMPLEMENTATION MILESTONES	October	per 2014-Partners visits 2014-return from visits visits for implementatio	;	nrtners					
PROCUREMENT	n/a								
RESPONSIBILITY FOR IMPLEMENTATION	Centre A	eader: Prof. J.C Aguiyi Administrator: Mark Kpa ficer: Prof. C.A Ugodulu							
DURATION: 11 days		Commencement: Sep	otember 2014	Completi	ion: October 2014				
PRIMARY CONSTITUEN Partners ACEPRD faculty	NTS:		PARTICIPANTS: Centre Leader: Pi Centre Administr M&E Officer: Pro Partners: Faculty ACEPRD: Faculty	ator: Mark f. C.A Ugod	Kparmak				
ASSUMPTIONS Part	ners enco	uraged to participate by	y visits						
FINANCIAL IMPLICATIONS	ACE	EPRD Budget							

	dget Line alysis	1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total
1	Center leadership visits to partners (Togo, Benin Republic, Ouagadougou, Cameroon)	10,00						10,000
ТО	TALS	10,00						10,000

Action Plan 3: Achieve outreach

Timeframe: October 2014-January 2015

Activity 3.2: Regional Student Exchange

RESULT	Knowled	lge mobilization for phy	tomedicine trainin	g and resea	arch	
ACTIVITY	Regional	Student Exchange				
ОИТРИТ	Regional	Student Exchange for c	apacity building in	phytomed	icine	
OUTPUT INDICATOR Number of students exchanged between Centre and others SOURCE OF VERIFICATION Centre Administrator: Mark Kparmak Senate Committe on Linkages Deputy Vice Chancellor Academics Deputy Registrar Academics						
IMPLEMENTATION MILESTONES	October 2014-welcoming and introduction of students November 2014-Contact with students January 2015-Students return to their country					
PROCUREMENT	N/A					
RESPONSIBILITY FOR IMPLEMENTATION	Deputy C Centre A	eader: Prof. J.C Aguiyi Centre Leader: Prof. F.K dministrator: Mark Kpa Officer: Luke Ngwu				
DURATION: 2 months		Commencement: Octo	ober 2014	Completi	on: January 2015	
PRIMARY CONSTITUEN Partner students Local Students Local Faculty		PARTICIPANTS: ACEPRD University of Jos Partner Countries Partner Students Local Students				
ASSUMPTIONS Regional students will want to exchange to University of Jos						

	IANCIAL PLICATIONS	ACEPRD Budget					
	dget Line alysis	1 st Qtr	2 nd Qt	3 rd Qtr 4 th Qt	5 th Qtr	6 th Qt	Total
1	Air Tickets (5)	6,250					6,250
2	Food (5)	6,000					6,000
3	Accommodation (5)	6,000					6,000
ТО	TALS	18,25 0					18,250

Timeframe: January 2015-February 2015

Activity 3.3: Regional Faculty Exchange

RESULT		lge mobilization e for capacity b				g and resea	rch Regic	onal faculty		
ACTIVITY	Regional	Faculty Exchar	ge							
OUTPUT	Regional faculty complete exchanges									
OUTPUT INDICATOR Number of faculty exchanged into the Centre Number of faculty from the Centre exchanged to other sites								SOURCE OF VERIFICATION Centre Administrator Mark Kparmak		
IMPLEMENTATION MILESTONES	January 2015-welcoming and introduction of Faculty January 2015-Contact with Faculty and On-going rotations for Faculty February 2015 Faculty return to their country									
PROCUREMENT	n/a									
RESPONSIBILITY FOR IMPLEMENTATION										
DURATION: 1 month		Commencem	ent: Janı	uary 2015		on: February 2015				
PRIMARY CONSTITUEN ACEPRD Faculty Regional Faculty	ITS:			PARTICIPANTS: ACEPRD Local and UNIJOS Faculty						
ASSUMPTIONS	onal facul	ty are willing to	particip	ate in exch	anges					
FINANCIAL IMPLICATIONS	ACE	PRD Budget								
Budget Line Analysis		1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total		
1 Air ticket (5)			6,250				6,250			

2 Food (5)	6,000	6,000
3 Accommodation (5)	10,00	10,000
TOTALS	22,25	22,250

Timeframe: April 2015

Activity 3.4: International/Overseas training of faculty

RESULT	Short-te expert	rm training for faculty a	and PhD Candidates b	oy an overse	ees international		
ACTIVITY	Training	by international faculty	to build UNIJOS cap	acity			
ОИТРИТ	Specializ	ed training of faculty ar	nd students by intern	ationally-ad	cclaimed expert		
OUTPUT INDICATOR Number of Fa	culty and	Students trained			SOURCE OF VERIFICATION Centre Administrator: Mark Kparmak M and E Officer: Prof. C.A Ugodulunwa		
IMPLEMENTATION MILESTONES							
PROCUREMENT	n/a						
RESPONSIBILITY FOR IMPLEMENTATION	Deputy 0 M&E Off	eader: Prof. J.C Aguiyi Centre Leader: Prof. F.K ficer: Prof. C.A Ugodulu Consultant					
DURATION: 2 weeks		Commencement: Apr	ril 2015	Completi	on: April 2015		
PRIMARY CONSTITUEN Faculty Students Technologists Animal House Staff	NTS:		PARTICIPANTS: ACEPRD University of Jos Faculty Students Trainer M&E Officer Local Faculty				
ASSUMPTIONS Suff	icient inte	rnational experts exist a	and are willing to con	duct these	trainings		
FINANCIAL ACEPRD Budget IMPLICATIONS							

Budget Line Analysis	1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total
1 Air Ticket			1,60 0				1,600
2 Accommodation			500				1,000
3 Food			200				400
4 Honorarium			2,00				4,000
TOTALS			4,30 0				7,000

Timeframe: February 2015-June 2015

Activity 3.5: Center combined regional and international research conference for students and faculty

RESULT	held. Pre leading t	Centre combined regional and international conference for students and faculty held. Presentation and dissemination of information on phytomedicine research leading to a goal of5 journal publications and 10 conference proceedings Such scientific data can be presented at other conferences.							
ACTIVITY	Center c	Center combined research conference for students and faculty							
OUTPUT	Center re	esearch conference held	d						
		endees at the conference endees at the conferenc	-	SOURCE OF VERIFICATION M&E: Prof. C.A Ugodulunwa Centre Administrator: Mark Kparmak Finance Officer: Luke Ngwu					
IMPLEMENTATION MILESTONES	February 2014-Meetings of local organizing committee commences February 2014-First announcement of conference, call for abstracts, contact of speakers, also starts April 2014-Final announcement and call for abstracts ends June 2015- Conference is held lasting 3 days								
PROCUREMENT	n/a								
RESPONSIBILITY FOR IMPLEMENTATION	Deputy (M&E Off Partner I	eader: Prof J.C Aguiyi Centre: Prof F.K Okwuas icer: Prof. C.A Ugodulur Leaders: Prof. Simon Efa las Koudovou, Dr Djierr Padney	nwa ange, Prof.Theophil		_				
DURATION: 5 months	i	Commencement: Feb	ruary 2015	Completi	npletion: June 2015				
PRIMARY CONSTITUEN Faculty Students Invited Speakers International Participa			PARTICIPANTS: Faculty Students Invited Speakers International Participants University of Jos						

	SUMPTIONS That regi	onal, inter		icuity and	- students	Will Wall	t to attend	z tilis com	erence
	PLICATIONS	ACEPRD	buuget						
	dget Line alysis		1 st Qtr	2 nd Qt	3 rd Qtr	3 rd Qtr 4 th Qt		6 th Qt	Total
1	Air fare (9 Speakers bo international and Region				13,125			13,125	
2	Food				16,575			16,575	
3	Honoraria for Invited S				18,000			18,000	
4	Conference materials: (fliers and conference programme, certificates of attendance, conference proceedings, banners,badges					6,000			6,000
5	Local transportation for participants)	or				500			500
6	Advertisement					4,500			4,500
6	Field trip					350			350
7	Accommodation				4,500				4,500
8	Conference Venue				7,500			7,500	
TOTALS					71,050			71,050	

Timeframe: November 2014-March 2015

Activity 3.6: Regional Center Research conference

RESULT	regional s	cion and Dissemination of information on student/faculty to serve as a forum for in ces in solving health problems in the sub-	teraction and sharing of				
ACTIVITY	Regional (Center Research conference					
ОИТРИТ	Regional	center research conference held					
OUTPUT INDICATO Number o Number o	SOURCE OF VERIFICATIO N M&E Officer: Prof. C.A Ugodulu nwa Centre Administ rator: Mark Kparmal Finance Officer: Luke Ngwu						
IMPLEMENTATI ON MILESTONES	Decembe and conta January 2 February	r 2014-Meeting by local organizing comm r 2014-First conference announcement, o act of speakers 015: LOC meeting continues and final and 2014: Communication with participants a 15-Conference is held	call for abstracts and papers,				
PROCUREMENT	n/a						
RESPONSIBILITY FOR IMPLEMENTATI ON Centre Leader: Prof J.C Aguiyi Deputy Centre: Prof F.K Okwuasaba M&E Officer: Prof C.A Ugodulunwa Partner Leaders Prof. Simon Efange, Prof.Theophillus Fleitcher, Dr Enoch Achigan, Dr Nicholas Koudovou, Dr Djierro Khadidja							
DURATION: 5 Mor	Completion: November 2015						

Fa Sti Inv	RIMARY CONSTITUENTS: culty udents vited Speakers ternational Participants SSUMPTI NS Regional faculty and s	studen	ts will war	PARTICIPANTS: Faculty Students Invited Speakers International Participants nt to attend				
	NANCIAL ACEPRD B IPLICATIONS	udget						
	adget Line nalysis	1 st Qt r	2 nd Qtr	3 rd Qtr	4 th Qtr	5 th Qtr	6 ^t h Q tr	Total
1	Air fare (5 Regional Partner Speakers)			6,25 0				6,250
2	Food			10,0				10,000
3	Honoraria for Invited Speakers			2,50 0				2,500
4	4 Conference materials: (fliers and conference programme, certificates of attendance, conference proceedings, banners, bag decoration)			6,00				6,000
5	Local transportation for participants)			500				500
6	Conference Venue			7,50 0				7,500
7	Advertisement			4,50 0				4,500

8 Field trip		350		350
9 Accommodation		4,50 0		4,500
TOTALS		37,6 00		37,600

Timeframe: August 2014 -August 2015

Activity 3.7: Project management committee meeting (bi-weekly)

RESULT	Assessment of project implementation, which will involve monitoring and evaluation, re-alignment of actions, validation of procurements, and review of budget.							
ACTIVITY	Project management committee meeting (bi-weekly)							
ОUТРUТ	Project management committee meets regularly to achieve project goals and objectives							
OUTPUT INDICATOR Minutes of Bi	-weekly meetings to assess project implementation	SOURCE OF VERIFICATION Centre Leader: Prof. J.C Aguiyi Deputy Centre Leader: Prof. F.K Okwuasaba M&E Officer: Prof. C.A Ugodulunwa Centre Administrator: Mark Kparmak						
IMPLEMENTATION MILESTONES	Bi-weekly meetings starting from 27/8/2014							
PROCUREMENT	N/A							
RESPONSIBILITY FOR IMPLEMENTATION	 Center Leader- Prof. JC Aguiyi Deputy Center Leader- Prof FK Okwuasaba Secretary- Mark Kparmak M & E- Prof CA Ugodulunwa Financial Officer- Mr. Luke Ngwu Procurement Officer- Mr. Micah Sattong Post Graduate Representative Head of phytomedicine program Head of Clinical Pharm- Dr. Maxwell Dapar ICT- Dr. Ishaya Tanko 							

DURATION: 1 ye	URATION: 1 year Commencement: August 2014						Completion: August 2015				
PRIMARY CONSTITUENTS: - Center Leader- Prof. JC Aguiyi - Deputy Center Leader- Prof FK Okwuasaba - Secretary- Mark Kparmak - M & E- Prof CA Ugodulunwa - Financial Officer- Mr. Luke Ngwu - Procurement Officer- Mr. Micah Sattong - Post Graduate Representative - Head of phytomedicine program - Head of Clinical Pharm- Dr. Maxwell Dapar - ICT- Dr. IshayaTanko All center faculty All center students					PARTICIPANTS: - Center Leader- Prof. JC Aguiyi - Deputy Center Leader- Prof FK Okwuasaba - Secretary- Mark Kparmak - M & E- Prof CA Ugodulunwa - Financial Officer- Mr. Luke Ngwu - Procurement Officer- Mr. Micah Sattong - Post Graduate Representative - Head of phytomedicine program - Head of Clinical Pharm- Dr. Maxwell Dapar - ICT- Dr.Ishaya Tanko						
ASSUMPTIONS	All faculty	present re	egularly								
FINANCIAL IMPLICATIONS		ACEPRD E	Budget								
Budget Line Analysis		1 st Qtr	2 nd Qt	3 rd Qt	dr 4 th Qt	5 th Qtr	6 th Qt	Total			
1 Biweekly me	eetings		0	0	0	0	0	0	0		
TOTALS	0	0	0	0	0	0	0				

Timeframe: November 2014 - February 2015

Activity 3.8: Outreach events targeting women

RESULT	and applied research will be policy for women in science This will project and acquain	Encouraging and empowering women to participate in phytomedicine training and applied research will be a major fulfilment of the Centre's gender equality policy for women in science and meeting the 30% World Bank policy for women. This will project and acquaint them with knowledge and skills necessary for them to compete favourably in the labour market.						
ACTIVITY	Outreach events targeting w	romen						
ОИТРИТ	Outreach events for women	utreach events for women held						
	ending outreach events ohytomedicine training progra	ms	SOURCE OF VERIFICATION Centre Administrator: Mark Kparmak Finance Officer: Luke Ngwu M&E Officer: Prof. C.A Ugodulunwa					
IMPLEMENTATION MILESTONES	term phytomedicine courses in developing interest for ph December 2014-enrollment February 2015-Theatre for p	of female students wit s to build capacity in su ytomedicine of female students int hytomedicine develor will showcase the imp	h bias for science into short- uch courses to incentivize them to phytomedicine Courses oment outreach in Togo for portance of women participation					
PROCUREMENT	n/a							
RESPONSIBILITY FOR IMPLEMENTATION	Centre Leader: Prof. J.C Aguiyi Deputy Centre Leader: Prof F.K Okwuasaba partner Leaders: Prof. Simon Efange, Prof.Theophillus Fleitcher, Dr Enoch Achigan, Dr Nicholas Koudovou, Dr Djierro Khadidja							
DURATION: 4 months	Commencement:	:: November 2014 Completion: February 202						
PRIMARY CONSTITUEN ACEPRD	TS:	PARTICIPANTS: Faculty						

Faculty
Students
Partner Institutions
Ministry of Health Lome, Togo
Traditional Healers Association

Students
Theatre performers
Partner Institutions
Ministry of Health Lome, Togo
Traditional Healers Association

Traditional He	raditional Healers Association						Traditional Healers Association				
ASSUMPTION	S Women	will have in	terest in p	hytome	dicine						
FINANCIAL IMPLICATION:	5	ACEPRD E	Budget								
Budget Line Analysis			1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total		
1 Advertise	ment			4,500					4,500		
Developn	tudent Scient nent (1 each f nstitution)			12,50 0					12,500		
3 Accommo	odation			5,000					5,000		
4 Food				1,000					1,000		
5 Air Ticket				5,500					5,500		
6 Hiring of	venue			2,000					2,000		
	um for theatr rs and other s			500					500		
TOTALS				18,50 0					31,000		

Timeframe: June 2015-August 2015

Activity 3.9: Industry networking events

RESULT		king for research, partnership, internship, and nment of data for human resources for emplo	· · · · · · · · · · · · · · · · · · ·
ACTIVITY	Industry	networking events	
ОИТРИТ		ened relationship with industry resulting to Fond of research findings and other consultance	
	artners will	ending events ling to take students for outreach periods s for students and faculty	SOURCE OF VERIFICATION Centre Leader: Prof.J.C Aguiyi Deputy Centre Leader: Prof. F.K Okwuasaba Centre Administrator: Mark Kparmak M&E Officer: Prof. C.A Ogudulunwa Industry partners: Neimeth Lagos, Europharm Jos
IMPLEMENTATION MILESTONES	strength July 2015	.5- Symposium and phytomedicine fair in collen industry-academic partnership for develops: Commencement of internship 2015-End of internship	
PROCUREMENT	n/a		
RESPONSIBILITY FOR IMPLEMENTATION	Deputy C Centre A Finance	eader: Prof. J.CAguiyi Centre Leader: Prof. F.K Owkuasaba Idministrator: Mark Kparmak Officer: Luke Ngwu Ficer: Prof. C.A Ugodulunwa	
DURATION: 4 months		Commencement: May 2015	Completion: August 2015

PRIMARY CONSTITUENTS: Students Faculty Industries ACEPRD ASSUMPTIONS Industry pa	ed in wor	PARTICIPANTS: Students Faculty Industries ACEPRD orking with academic partners						
FINANCIAL ACEPRD Budget IMPLICATIONS								
Budget Line Analysis	1 st Qtr	2 nd Qt r	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total	
				44,000	88,500			44,000
TOTALS				44,000				52,500

Timeframe: August 2014-August 2015

Activity 4.1: Center Operational Cost

RESULT		Structure for project in management in place	nplementation, mo	nitoring an	d evaluation as well		
ACTIVITY	Center O	perational Cost					
OUTPUT	Full Management Team constituted for project implementation - Center Leader- Prof. JC Aguiyi - Deputy Center Leader- Prof FK Okwuasaba - Secretary- Mark Kparmak - M & E- Prof CA Ugodulunwa - Financial Officer- Mr. Luke Ngwu - Procurement Officer- Mr. Micah Sattong - Post Graduate Representative: Prof. Warisu Alli - Head of phytomedicine program: Prof. F.C Ohiri - Head of Clinical Pharmacy- Dr. Maxwell Dapar - ICT- Dr. IshayaTanko						
OUTPUT INDICATOR Number of meetings for project implementation and evaluation SOURCE OF VERIFICATION Centre Administra Mark Kpar Minutes o meetings							
IMPLEMENTATION MILESTONES	Bi-weekl	y meeting through the y	year: August 2014-	August 20	15		
PROCUREMENT	12 laptor	DS					
RESPONSIBILITY FOR IMPLEMENTATION	Deputy C	eader: Prof. J.C Aguiyi Centre Leader: Prof. Fra dministrator: Mark Kpa					
DURATION: 1 year		Commencement: Aug	ust 2014	Completi	on: August 2015		
PRIMARY CONSTITUEN ACEPRD Students Regional and Internati University of Jos Comm	у	PARTICIPANTS: ACEPRD Management Team					
ASSUMPTIONS							

	IANCIAL PLICATIONS	ACEPRD Budget								
	Budget Line Analysis		1 st Qtr	2 nd Qt	3 rd Qt	r 4 th Qt	5 th Qtr	6 th Qt	Total	
1	Printing and stationary, communication, transportation, postages, other operating costs, 12 laptops		12,00						12,000	
2	Preparation of materials for meeting, stationeries, communication, postages, other operating expenses		500	500	50 0	500			2,000	
то	TOTALS		12,50 0	500	50 0	500			14,000	

Timeframe: December 2014-January 2015

Activity 4.2: Vehicle purchase, fuel, maintenance

RESULT		t transportation for nd farm produce hau		of project; stu	udent/faculty field	
ACTIVITY	Vehicle	purchase, fuel, mai	ntenance			
ОUТРUТ	Enhanc	ed transportation of	f students, faculty, a	and farm pro	duce	
	TOR es procured g established				SOURCE OF VERIFICATION Finance Officer: Luke Ngwu Procurement Officer: Micah Sattong Centre Administrator: Mark Kparmak Centre Leader: Prof. J.C Aguiyi	
IMPLEMENTATION MILESTONES	O Decemb	per 2014-January 20	15-Procurement of	vehicle		
PROCUREMENT	Vehicle	purchase, fuel, mai	ntenance			
RESPONSIBILITY FOR IMPLEMENTATION	Finance	ement Officer officer: Luke Ngwu Leader: Prof. J.C Agu				
DURATION: 1 m	nonth	Commencement:	December 2014	Completio	n: January 2015	
PRIMARY CONST Farm Manager Students Faculty	TITUENTS: AC	EPRD	PARTICIPANTS: Procurement Officer Finance Officer Centre Leader			
ASSUMPTIO NS	Vehicles are a	available in country	that meet specifica	tions		
FINANCIAL IMPLICATIONS	ACI	EPRD Budget				

Budget Line Analysis	1 st Qt	2 nd Qtr	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Q	Total
1 Vehicle purchase (2)		80,00					80,000
3 Maintenance/fuel			7,0 00	7,000	6,000		20,000
TOTALS		80,00	7,0 00	7,000	6,000		100,000

Timeframe: August 2015-December 2015

Activity 4.3: International Advisory Board Meeting

RESULT		e, mai	intenance				mentation, d advice on p		on of project nd	
ACTIVITY	Internat	ional	Advisory I	Board M	eeting					
OUTPUT	Importa	mportant decisions and advice for achieving project goals and objectives								
OUTPUT INDICATOR Annual meetings convened Centre Leader: Prof. J.C Aguiyi Centre Deputy Leader: Prof. F.K Okwuasaba Centre Administrator: Mark Kparmak IMPLEMENTATION October 2015: Planning of meeting commences								cation entre Leader: of. J.C Aguiyi entre Deputy ader: Prof. c exwuasaba entre Iministrator:		
IMPLEMENTATION MILESTONES	October 2015: Planning of meeting commences December 2015: Meeting of International Advisory Board Members									
PROCUREMENT	n/a									
RESPONSIBILITY FOR IMPLEMENTATION			r: Prof. J.C istrator: N		rmak					
DURATION: 3 month	S	Con	nmencem	ent: Oct	ober 2015		Completion	on: December 2015		
PRIMARY CONSTITUE ACEPRD International Center faculty Center students					PARTICIP ACEPRD	ANTS:				
ASSUMPTION Inte	ernational	advisc	ory board	member	s are availa	able and	l able to trav	el to the	meeting	
FINANCIAL IMPLICATIONS	ACI	EPRD I	Budget							
Budget Line			1 st Qtr	2 nd Qt	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total	

An	alysis		
1	Air Tickets (5) (International and Local Flights)	12,500	12,500
2	Accommodation (2 days arrival and departure)	2,750	2,750
3	Honorarium (2 days)	7,000	7,000
4	Food	2,000	2,000
то	TALS	24,250	24,250

Timeframe: January 2015 -June 2015

Activity 4.4: Regional Advisory Board Meeting

RESULT	Regional	meetings to assess pro	ogress in project im	plementati	ion				
ACTIVITY	Regional	Advisory Board Meetin	ng						
ОИТРИТ	Importar	nt decisions and advice	for achieving proje	ct goals an	d objective:	5			
OUTPUT INDICATOR Bi-Annual me	etings con	vened			J.C Aguiyi Centre De Leader: Pi Okwuasak Centre	TION ader: Prof. puty rof. F.K			
IMPLEMENTATION MILESTONES									
PROCUREMENT	n/a								
RESPONSIBILITY FOR IMPLEMENTATION		eader: Prof. J.C Aguiyi dministrator: Mark Kpa	armak						
DURATION: 7 months		Commencement: Dec	cember 2015	Completi	etion: June 2015				
PRIMARY CONSTITUENTS: ACEPRD Regional Partners All center faculty All center students ACEPRD REGIONAL ACEPRD regional board ACEPRD leadership									
ASSUMPTIONS Reg	ional mem	bers are willing an able	to attend						
FINANCIAL IMPLICATIONS	ACE	PRD Budget							
Budget Line Analysis		1 st Qtr 2 nd Qt	3 rd Qtr 4 th Qtr	5 th Qtr	6 th Qtr	Total			

1	Air Tickets-Local and International (2 meetings)	4,750	4,750		9,500
2	Accommodation(2 days for 2) meetings	1,750	1,750		3,500
3	Food for (2 days for 2 meetings)	1,000	1,000		2,000
4	Honorarium for (2 days for 2 meetings)	5,000	5,000		10,000
5	Venue for (1 day for 2 meetings at Faculty Boardroom	0	0		0
ТО	TALS	12,50 0	12,500		25,000

Timeframe: September 2014

Activity 4.5: Center management Training

RESULT	them to	Orientation of management team for efficient execution of project will enable them to carry out the project in a timely and effective manner, meeting all the project deliverables.							
ACTIVITY	Center m	Center management training							
OUTPUT	Managen	Management team equipped with managerial skills for project implementation							
OUTPUT INDICATOR Number of M	anagemen	t Team trained		SOURCE OF VERIFICATION Centre Leader: Prof. J.C Aguiyi M&E Officer: Prof. C.A Ugodulunwa Centre Administrator: Mark Kparmak Finance Officer: Luke Ngwu					
IMPLEMENTATION MILESTONES									
PROCUREMENT	n/a								
RESPONSIBILITY FOR IMPLEMENTATION	6, 7								
DURATION: 3 months		Commencement: July	2014	Completion: September2014					
PRIMARY CONSTITUEN -Center Leader- Prof. J - Deputy Center Leade - Secretary- Mark Kpar - M & E- Prof CA Ugod: - Financial Officer- Mr Procurement Officer Post Graduate Repre: - Head of phytomedici - Head of Clinical Pharu - ICT- Dr. IshayaTanko	C Aguiyi r- Prof FK C mak ulunwa Luke Ngwi Mr. Micah sentative ne program	u n Sattong n	PARTICIPANTS: -Center Leader- Prof. JC Aguiyi - Deputy Center Leader- Prof FK Okwuasaba - Secretary- Mark Kparmak - M & E- Prof CA Ugodulunwa - Financial Officer- Mr. Luke Ngwu - Procurement Officer- Mr. Micah Sattong - Post Graduate Representative - Head of phytomedicine program - Head of Clinical Pharm- Dr. Maxwell Dapar - ICT- Dr.IshayaTanko						

ASSU	ASSUMPTIONS Training for efficient project management can be completed in country									
	ANCIAL ACEPRD Budget LICATIONS									
_	Budget Line Analysis				Total					
1	Food			2,000						2,000
TOTA	ALS			2,000						2,000

Timeframe: September 2014-November 2014

Activity 4.6: Accreditation

RESULT	National Internati	Accreditation of Centre Short Courses, masters and PhD programme by the National Universities Commission NUC, Pharmacist Council, WHO, Federation of International Pharmacists for National and international recognition of graduates trained by the Centre.								
ACTIVITY	Accredita	ation								
OUTPUT	Centre sl	Centre short courses, masters and PhD programs accredited								
Accreditation	of two Ph	asters programs D programs d by national accredito	SOURCE OF VERIFICATION Centre Leader: Prof. J.C Aguiyi Registrar: Barr. Dandam DVC Academic Prof. B.T Ugwu Dean, PG Scho							
IMPLEMENTATION MILESTONES November 2014- Review accreditation criteria by ACEPRD Management December 2014-Invitation for site visit made February 2015-Accreditors make site visits April 2015-Two masters programme and short Courses accredited for grade students within the programme timeline (1 year)										
PROCUREMENT	n/a									
RESPONSIBILITY FOR IMPLEMENTATION	Centre A	eader: Prof J.C Aguiyi dministrator: Mark Kpa PG School: Prof. Warisi								
DURATION: 6 month	S	Commencement: No	vember 2014	Completion: April 2015						
PRIMARY CONSTITUE ACEPRD Regional Partners	NTS:		PARTICIPANTS: Accreditation bodies both local and international							
ASSUMPTION Inte	rnationally	recognized training in	phytomedicine ab	ole to be accre	edited					
FINANCIAL ACEPRD Budget IMPLICATIONS										

	dget Line alysis	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	5 th Qtr	6 th Qt	Total
1	International Accreditation fees							
	Federated International Pharmacist, FIP/World Health Organization, WHO (Site visit, travel, accommodation, honorarium)				220,0 00 5	F		20,000
	NAPPSA	0				9,		0
2	Local accreditation fees:							
	NUC	0				\		
	Pharmacist Council of Nigeria	3,125				E		3,125
то	TALS	3,125		5500	220,0			23,625

Action Plan 5: Strengthen Financial Stability

Timeframe: September 2014 - August 2015

Activity 5.1: Farm cultivation management and expansion

RESULT	essentia	Availability of raw materials for training, applied research and industrial use is essential for sustained Centre project. Centre will also generate revenue for the supply of raw materials to the industry.								
ACTIVITY	Farm cul	tivation management	and expansion							
OUTPUT	Medicina	Medicinal raw materials for training and applied research available								
OUTPUT INDICATOR Number of medicinal plants harvested for research use and commercialization Preservation and cultivation of farmland										
IMPLEMENTATION MILESTONES September 2014-Preparation of farm for cultivation of medicinal plants October 2014-Cultivation of medicinal plants December 2014-May 2015-Management of medicinal plants September2015-Harvest of medicinal raw materials May 2015-Herbarium for medicinal plants June 2015-Uploading digital herbarium										
PROCUREMENT	_	sual workers, farm im Imping machine, overl		plants and	seedlings, tractor,					
RESPONSIBILITY FO	Deputy C Farm Ma Procurer Finance C	eader: Prof. J.C Aguiyi Centre Leader: Prof. F.I Inager: Nannim Langyi ment Officer: Micah Sa Officer: Luke Ngwu Phytomedicine: Prof. F	ittong							
DURATION: 1 year		Commencement: Se	ptember 2014	Completion	on: September 2015					
PRIMARY CONSTITUTE ACEPRD Students Faculty Farm Manager Head of Phytomed			PARTICIPANTS: ACEPRD Students Faculty Farm Manager Head of Phytomedicine Gangnim Community							
ASSUMPTIONS No natural conditions (flood, infestation etc) preventing farm cultivation										

	FINANCIAL MPLICATIONS ACEPRD Budget								
Budget Line Analysis			1 st Qtr	2 nd Q t	3 rd Qtr	4 th Qt	5 th Qtr	6 th Qt	Total
1	Hiring 50 casual workers to clear 800 Hectares farm 5 days		2,000						2,000
2	Farm implements		5,000						5,000
3	Medicinal plants and seedlings		35,000						35,000
4	Tractor		25,000						25,000
5	Water pumping machir	ne/hose	500						500
6	Overhead tank		1,000						1,000
ТО	TALS		68,000						68,000

Annex

PART C	1	1	1	1	1	1	
Phase	What	Where	How	When	Why	Cost	Who
	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Is the parameter to be monitored?)	(Define the frequency / or continuous?)	(Is the parameter being monitored?)	(if not included in project budget)	(Is responsible for monitoring?)
During activity preparation Initial stage	Centre will develop a structured method of controlling and reducing the environmental impact that may result from the project. Hence scientific and management processes will be written as a policy document	Centre Laboratories and Farm	Ensuring compliance to established National and International environmental management laws	During application process for a prevention and control approval in February 2015 through the 4 years of the project	To identify and prepare EMP document that will comply with environmental control legislation to avoid risk and obstruction to the project implementation	Adherence to health and environmental management laws and effective response preparedness will reduce risk management cost: Part of Budget in Action Plan 4: Centre Operations	National and International Environmental pollution prevention agency to monitor compliance Centre Leader Prof J.C Aguiyi, M&E Officer Prof. C.A Ugodulunwa Plateau State Environmental Protection Agency
During activity implementation	Centre will	Centre Laboratories	Data analysis, internal checks	Regular Review as from January 2015	To continually identify impacts and	Identified and	Deputy Centre Leader Prof F.K Okwuasaba.
	collect regularly data for analysis to measure and monitor our EMP objectives and targets	and Farm	and audits to measure progress and improvement	through the 4 years of the project	controlling the risks	risks will save cost	Prof. I.S Okafor Department of Pharmaceutics, Prof. Dung Gwom HOD Department of Geography and Planning Project management to demonstrate preparedness and response to emergency
	Training on Laboratory Ethics	Centre Laboratories and Farm	Use and handling of animals, biological and land conservation and biodiversity	Environmental pollution and land preservation management to be done annually from February 2015 through the project period	For effective handling of laboratory animals and biological and prevention of soil depletion.	Centre budget	Dr.Oche Agbaji, Dr Ekwere.O Ekwere
	Will identify and improve environmental performance indicators after self internal assessment to ensure meeting national legal obligations	Centre Laboratories and Farm	Self evaluation methods adopted to track environmental management control objectives and targets	The environmental management within the period of the project will regularly identify and evaluate compliance to impact issues from September 2014 to the end of the project	To improve sustainability of project activities environmental management corrective actions will be evaluated regularly from within 4 years of the project	Improve performance will save cost: Budgeted for in Action plan 2	Centre Stakeholders and World Bank to monitor on regular basis: Prof. F.K Okwuasaba

During activity	The Centre will	ACEPRD	Utilizing data	Twice in a month	To ensure strict	The cost as	ACEPRD Chief
supervision	ensure	Laboratories,	acquired	beginning from	compliance with all	budget	Technologist Mr Shola
•	standard	Farm, and	during	January 2015-	environmental	for in Action	Motunbade, Head of
	Laboratory and	partner Farm	monitoring of	December 2017	standards relating to	Plan 5	Animal House Mr
	Farm		implementation		research		Luka Wazoh, Deputy
	Management		stage to review				Centre Leader Prof
	practice		rules, ensuring				F.K Okwuasaba
			compliance of				
			management				
			rules put in				
			place by the				
			Project				
			Management				
			Team				
			And				
			Organizing				
			environmental				
			standard				
			operations				
			management				
			seminars for				
			technologists,				
			farm managers				