



SCIENTIFIC, TECHNICAL AND RESEARCH
COMMISSION

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MEETING OF DIRECTORS OF THE REGIONAL AND SUB-REGIONAL OFFICES
OF STRC SYSTEM NAIROBI, KENYA

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PROGRAMME /BUDGET OF THE EXECUTIVE SECRETARIAT
1994/94 AND 1995/96

September, 1993

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I. INTRODUCTION

1. The statutory functions of the OAU/STRC are defined within the framework of legislative instruments, the most important of which include :

- The Lagos Plan of Action
- African Priority Programme for Economic Recovery
- The Resolutions of the Council of Ministers :
CM/Res.238(XVI)
CM/Res.250(XVII)
CM/Res.289(XX)
CM/Res.514(XXVII)
CM/Res.1033(XLII)
CM/Res.1042(LII)
- Recommendations of the Scientific Council for Africa (S.C.A.) and Inter-African Scientific Committees of Experts on various aspects of Science and Technology for Development in the Continent;
- Treaty establishing the African Economic Community.

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2. These functions can be summarized as follows :

- Promotion of research in science and technology for development;
- Natural and human resources development as well as the optimal utilization of the results of scientific and technological research for development;
- Dissemination of scientific and technical information to national programmes involved in scientific research studies on the development of Member States;
- Establishment and promotion of structures for the exchange of ideas and experience between experts involved in national science and technology programmes for development;
- Coordination of research and development programmes being undertaken in this field by national programmes;

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- Consideration of projects for the scientific and technological development of Member States;
- Supervision of the actions-programmes of the sub-regional offices within the studies;
- Regional and international cooperation in the field of science and technology for the development of the African continent.

II. OAU/STRC PROGRAMME OF ACTION

3. The main programmes of action of the Commission are defined within the framework of the preceding functions, in four programmes (4.8, 4.9, 4.10 and 4.11) which are as follows :

- 4.8 : Executive direction and management of the Secretariat of the Commission and the coordination of the activities of the system.
- 4.9 : Natural resources, science and technology.
- 4.10 : Agriculture, Oceanography and Fisheries.
- 4.11 : Administration, Conference Services and Joint Projects.

4. The programmes are made up of sub-programmes whose termes of reference are retained according to the importance of their contribution to the scientific, technological, economic and social development of Member States. They are as follows :

P R O G R A M M E S		S O U S P R O G R A M M E S	
Reference	Themes	References	Themes
4.8	Executive Direction and Management of the Secretariat of the Commission	4.8.1 4.8.2 4.11(6)	Scientific Council for Africa (SCA) Scientific Publications Administration and Conference Services
4.9	Natural Resources, Science and technology for the development of OAU Member States	4.9.1 4.9.2 4.9.3 4.9.4 4.9.5 4.9.6 4.9.7 4.9.8 4.9.9 4.9.10 4.9.11	Natural Resources Technology for research and development Structures for expertise in science ✓ Development of medical technologies ✓ and medicinal plants Training and Research of human resources in Science and Technology for development Precious metals and their research and technology for development Environmental protection and studies ✗ New, renewable and solar energy Electronic instrumentation and training of technicians for maintenance Earth Sciences Scientific, technical and technological structures (Committees of Experts) for research for development.

5. The last sub-programme of Programme 4.9 contains a total of 21 research themes defined on the basis of the respective role of importance they play in the exploitation of related research actions of programme 4.9; they are promoted by specific scientific structures (exeprts committees) established for their effective technical management. They are :

4.10	Agriculture, Oceanography and Fisheries	4.10.1	* Agriculture, food and sustainable agricultural development
		4.10.2	Forestry
		4.10.3	Soil Science (documentation, training of laboratory technicians - African soils).
		4.10.4	Oceanography and Fisheries
4.11 (a)	JOINT PROJECTS	4.11 (a.1)	AMTA Regional centres for research on African medicinal plants; CADE UNEP/OAU Projects on coastal erosion control in West Africa UNIDO/OAU Projects on the production of drugs from medicinal plants
4.11 (b)	Administration and Conference Service	4.11 (b.1)	Administration/Conference/ Accounting

6. Budget estimates for the 1994/95 and 1995/96 financial years gave priority to the implementation of scientific, technical and technological programmes (PST)* of the STRC as compared to its financial support programme (PAF)** which constitute budget proposals intended to cover expenses for the administrative and conference services of the Executive Secretariat.

7. A brief analysis of the ratio between the PST and the PAF for the last six financial years of the Executive Secretariat of the STRC, led to the following conclusions :

TRENDS TO THE BUDGET RATIO OF PST AND PAF DURING
THE LAST SIX FINANCIAL YEARS OF THE STRC

N°.	FINANCIAL YEARS	B U D G E T					
		Approved for each financial year	PST Allocated for scientific programme (Codes 300, 610, 608, 800, 900 and 903)	% In proportion to budget approved for each financial year	PAF Allocated for the running of the STRC for each financial year	% In proportion to budget approved	% PA - PST Difference in %
1.	1988/89	1.439.862,00	388.014,00	26,95	1051.848,00	73,05	46,10
2.	1989/90	1543.024,00	487.074,00	31,57	1055.950,00	68,43	36,86
3.	1990/91	1553.032,00	556.804,00	35,85	996.228,00	64,15	28,30
4.	1991/92	1405.496,00	387.804,00	27,59	1017.692,00	72,41	44,82
5.	1992/93	1339.173,00	330.000,00	24,64	1009.173,00	75,36	40,72
6.	1993/94	1127.034,00	221.400,00	19,65	905.634,00	80,35	60,70
. Total for 6 financial year		8407.621,00	2371.096,00	166,25	6036.525,00	433,35	257,50
. Weighted average		1401.270,10	395.182,66	27,71	1006.087,50	72,225	42,92

REMARK : The difference in the weighted average of the percentage of budget allocations granted for the scientific programme compared to that of operation in the 1988 to 1993 / 94 period is $72,225 - 27,71 = 44,515\%$.

* PST - Scientific/Technical Programme appropriation
 ** PAF - Salaries and Administration appropriation

8. The following conclusions can be made :

$$\text{a. } 1988/89 = \frac{\text{PAF}}{\text{PST}} = \frac{73,05}{26,95} \quad \text{or} \quad \text{PAF} = \underline{2,71 \text{ PST}} \quad (1)$$

$$\text{b. } 1989/90 = \frac{\text{PAF}}{\text{PST}} = \frac{68,43}{31,57} \quad \text{or} \quad \text{PAF} = \underline{2,17 \text{ PST}} \quad (2)$$

$$\text{c. } 1990/91 = \frac{\text{PAF}}{\text{PST}} = \frac{64,15}{35,85} \quad \text{or} \quad \text{PAF} = \underline{1,79 \text{ PST}} \quad (3)$$

$$\text{d. } 1991/92 = \frac{\text{PAF}}{\text{PST}} = \frac{72,41}{27,59} \quad \text{or} \quad \text{PAF} = \underline{2,63 \text{ PST}} \quad (4)$$

$$\text{e. } 1992/93 = \frac{\text{PAF}}{\text{PST}} = \frac{75,36}{24,64} \quad \text{or} \quad \text{PAF} = \underline{3,06 \text{ PST}} \quad (5)$$

$$\text{f. } 1993/94 = \frac{\text{PAF}}{\text{PST}} = \frac{80,35}{19,65} \quad \text{or} \quad \text{PAF} = \underline{4,09 \text{ PST}} \quad (6)$$

9. The analysis of the situation leads to the conclusion that the STRC Secretariat only played an administrative role during these financial years, as opposed to the scientific and technical mission assigned by the legislative instruments governing the STRC.

10. The budget estimates for the 1994/95 and 1995/96 financial years, taking this fact into consideration, was more strengthened for the factor (PST) than for its PAF, with a view to gradually reading the inverse imbalance (PAF PST) noted in the ratio of the two factors of the budget programmes of the financial years considered.

11. For the scientific and technical programmes (PST) included in the 2 financial years under consideration, it is distributed as follows :

NO.	PROGRAMMED SCIENTIFIC AND TECHNICAL ACTIONS	1994/95 \$US	1995/96 \$US
	<u>1. OAU/STRC PROGRAMMES</u>		
1.	CSA Experts Committee Meeting	65,750.00	-
2.	Scientific and Technical Publications .	60,000.00	60,000.00
3.	Interafrican Research Network on the Conservation Utilization and Development of Natural Resources	60,000.00	-
4.	Technology for Research and Development Promotion of Local Technologies in Africa.	-	62,955.00
5.	Research Network on Architecture Material and Construction in Africa.	-	62,955.00
6.	Network Research and Development on Cartography and Topography in Africa	62,100.00	-
7.	Development on Medical Technology and Medicinal Plants in Africa : Ethnobotanical Survey in Cameroon.	140,104.00	-
8.	Research Network on Medical Technologies and Traditional Medicine Development in Africa	-	59,755.00
9.	Information Organs on Research Network on Sub-Programme 4.9.4.	15,000.00	15,000.00
10.	Human Resources Development in Science and Technology	70,000.00	70,000.00
11.	Meeting of African Ministers of Science and Technology for Development	-	65,605.00
12.	Research network on Environmental Protection through Sustainable Actions :		
	a. Environmental Protection Studies in Eastern, Central and Northern Africa	-	84,967.00
	b. Environmental Protection in Eastern and Southern Africa	89,603.00	-

NO.	PROGRAMMED SCIENTIFIC AND TECHNICAL ACTIONS	1994/95 US\$	1995/96 US\$
13.	Inter-African Committee on New, Renewable and Solar Resources in Africa	-	69.824,00
14.	Research Network on Electronic instrumentation and Training of Maintenance Technicians	71.681,00	-
15.	Regional Research Network on Earth Science: Meeting of Experts of National Programmes involved in Earth Science	48.851,00	-
<u>AGRICULTURE AND FOOD</u>			
16.	Inter-African Committee on Agricultural Mechanization in Africa	66.014,00	-
<u>FORESTRY</u>			
17.	Experts of National Programmes in Tropical Forest Programme in Africa	-	63.605,00
<u>SOIL SCIENCE</u>			
18.	Symposium on Management in Soils in Africa	-	99.611,00
19.	Scientific Meeting of Editorial Board of African Soil Publication	40.406,00	-
20.	4th Meeting of Inter-African Committee and Oceanography, Sea and Inland Fisheries	-	92.887,00

NO.	PROGRAMMED SCIENTIFIC AND TECHNICAL ACTIONS	1994/95 US\$	1995/96 US\$
<u>RESEARCH/DEVELOPMENT PROJECTS</u>			
	. UNEP/OAU Project on Coastal Erosion in West Africa		
	a. Construction of ^{rain} Gabions groynes	50.000,00	50.000,00
	b. Seminars, Workshops, Meetings	10.000,00	10.000,00
	c. Application of control measures to other areas	10.000,00	10.000,00
	. AMTA	10.000,00	10.000,00
	. Regional research centres on African traditional medicine and medicinal plants	30.000,00	30.000,00
	. Joint UNIDO/OAU project and research studies on drug production in Africa	25.000,00	25.000,00
	TOTAL	919,507.00	1,007,164.00

SUMMARY ANALYSIS

A. 1994/1995 Financial Year

Budget estimates = \$2,089,193 (1)

PST = 977.550 (2)

PAF = 1.109.643 (3)

:
% or

a. $\frac{PST}{Budget} = \frac{977.550}{2.089.193} \times 100 = 46,83563\%$

b. $\frac{PAF}{Budget} = \frac{1.109.643}{2.089.193} \times 100 = 53,16436\%$

c. Ratio between PAF and PST :

of which $\frac{PAF}{PST} = \frac{53,16436}{46,83563} = 1,135126\%$

PAF = 1,135126 PST (2)

REMARK : Accelerated development of PST compared to its

PAF : the PAF Ratio = 4.09 PST of 1993/94 is reduced
to PAF = 1,135126 PST in 1994/95

B. 1994/95 Financial Year

Total budget estimates = \$2,124,274

PST = \$ 997.573

PAF = \$ 1.126.701

a. $\frac{PST}{Total} = \frac{997.573}{2.124.274} = 100 = 46,96065\%$ (1)

b. $\frac{PAF}{Total} = \frac{1.126.701}{2.124.274} = 100 = 53,03934\%$ (2)

c. $\frac{PAF}{PST} = \frac{5.303.934}{4.696.065} = 1,1294422\%$ (3)

PAF = 1,1294422 PST (4)

Remark:

Marked progression of the PST for 1995/96 (1,1294422) compared to that recorded in 1994/95 (1,135126).

It is: 1,1351260 - 1,1294422
 = 0,0056838 in % of ratio between the PST and its PAF for the financial year under consideration.

Objectives

- a. First phase = (5)
- b. Second phase = (6)

In the last phase, the STRC will play the role of a scientific, technical and technological institution assigned to it by the legal texts now governing the STRC within the OAU in all respects.

III. Problems

14. Besides the problem of the ratio between the PST and the PAF factors of the budget and the STRC, the office is also faced with a manifest inadequacy of human resources required for the rational and effective implementation of technical actions on the programmes.

15. An in-depth study of the distribution of duties assigned to the two operational divisions of the Commission, and their respective technical sections, permitted a definition of the minimum qualified human resource requirements for the effective and harmonious accomplishment of their respective scientific missions.

16. This study resulted in the definition of the attributions of the divisions and their respective sections as follows:-

PROGRAMME/DIVISION IProgramme 4.9: Natural Resources, Science and Technology1. Head of Division

- Development of medical technologies and medicinal plants in Africa (Sub-Programme 4.9.4.);

- Training and Research in Science and Technology for Development in Africa (Sub-Programme 4.9.5);
- New, Renewable and Solar Energy Resources in Africa (Sub-Programme 4.9.8).
- Electronic instrumentation and Training of technicians for maintenance (Sub-Programmes 4.9.9 and 4.11(4));
- Technical research network and structures (OAU/STRC) experts committees (Sub-Programmes 4.9.11 (2,8,9,12));
- Management of joint projects (Sub-Programmes 4.11A (3 and 8);
Regional research centre on African traditional Medicine and medicinal plants (Sub-Programme (4.11(3);
UNIDO/OAU Pilot Research on the production of drugs from African medicinal plants;
- Scientific and technical coordination of sections 1,2,3,4, and 5;
- Other activities assigned by the Executive Secretary and the General Secretariat of the OAU.

2. Head of Section 1 :

- Technology for Research and Development in Africa (Sub-Programme 4.9.2);
- Research and technology of precious metals (Sub-Programme 4.9.6);
- Scientific and technical and Research network for development (Sub-Programmes 4.9.11 (1,5,9, 21);
 - ° Natural resources
 - ° Conservation, utilization and development of natural resources in Africa:
 - ° Hepatitis B vaccination;
 - ° Aids
- Other activities assigned by the Executive Secretary and the Head of Division

- Joint Project (4.11A).

4. Head of Section 3 :

- Environmental studies and protection
- Technical and scientific research network for development (Sub-programme 4.9.11(11,20),
 - ° Oceanography and Fisheries,
 - ° Environmental protection
- Joint project (Sub-programme 4.11A(7));
- Other activities assigned by the Executive Secretary and the Head of Division.

5. Head of Section 4 :

- Earth Science (Sub-programme 4.9.10);
- Scientific and technical research network for development (Sub-programme 4.9.11(6,11,12);
 - ° Earth Science
 - ° Agricultural mecanization,
 - ° Cartography and Topography;
 - ° Geology and Mineralogy
- AMTA joint project
- Other activities assigned by the Executive Secretary and the Head of Division.

B. PROGRAMMES/DIVISION II

1. Head of Division

- Agriculture, food and sustainable agricultural development;
- Scientific and technical research network for development (Sub-programme 4.9.11 (13 and 15);
 - ° Fertilizers
 - ° Food science and technology

- Joint project Programme 4.7
- Technical Coordination of the Division
- Other activities assigned by Executive Secretary and the Secretary General.

2. Head of Section 1 :

- Soil Science (Sub-Programme 4.10.3)
- Soil Documentation, Soil Bulletin;
- Training of Laboratory technicians;
- Scientific meetings on Soil;
- Joint Project (Sub-Programme 4.11.(5));
- Other activities assigned by Executive Secretary and the Head of Division.

3. Head of Section 2 :

- Oceanography and Fishery (Sub-Programme 4.10.4);
- Regional and International conventions on Fisheries and Oceanography;
- Study, Research and control of water weed in Africa;
- Scientific and Technical Research network for development in Oceanography and Fisheries;
- Other activities assigned by Executive Secretary and the Head of Division.

C. SUMMARY OF POSTS BY DIVISION/SECTION AND EXPERTS STAFF REQUIREMENTS:

17. The requirements are expressed to fill the posts defined by the distribution of duties within the operational Division of the STRC. They are as follows:-

PROGRAMME	SUB-PROGRAMME	OFFICERS - SCIENTIFIC STAFF			BUDGETED POSTS	
		NEEDED	APPOINTED	TO BE APPOINTED	FILLED	TO BE CONVERTED
4.9 HEAD OF DIVISION	4.9.4 4.9.5 4.9.8 4.9.11(2,3,8,17)	1	1	-	1	NONE
HEAD OF SECTION (1)	4.9.2 4.9.6 4.11(10,14,16,18)	1	-	1 (P3)	-	1 (One) Post of Inspector (P4) budgeted to be converted to scientific post (P3)
3. HEAD OF SECTION (2)	4.9.1 4.9.3 4.9.11(1,5,9,21)	1	-	1 (P3)	-	1 (One) Post of Administrator (P3) budgeted to be converted to scientific post
4. HEAD OF SECTION (4)	4.9.7 4.9.11(19,20) 4.11(7)	1	1	-	1	None
4. HEAD OF SECTION (5)	4.9.11(6,11,12)	1	-	1 (P3)	-	Post of Internal Auditor (P2) to be converted to scientific post
1. 4.10 HEAD OF DIVISION	4.10	1	-	1 (P3)	-	Post (P4) budgeted to be filled
2. HEAD OF SECTION (1)	4.10.2	1	-	1 (P3)	-	One post of Agric. Officer (P2) to be converted to (P3) Scientific post
3. HEAD OF SECTION (2)	4.10.3 4.11A (1.5)	1	1	-	1	None
		8	3	5	3	

18. The financial implications resulting from the proposed study to strengthen the STRC in qualified human resources of the required number by converting frozen budgeted posts to scientific posts, will be US\$57,000.00, broken down as follows :

EXISTING POSTS TO BE UNFROZEN AND RECONVERTED	SCIENTIFIC POSTS REQUIRED FOR 1994/96	FINANCIAL IMPLICATION		DIFFERENCE
		UNFROZEN POST 1994/95 US\$	REQUIRED POST 1995/96 US\$	
1. Inspector P4-2	Chief of Section P3-2	-	17,450.00	17,450.00
2. Administrator P3-2	Chief of Section P3-2	22,215.00	17,450.00	4,765.00
3. Conference Officer P2-2	Chief of Section P3-2	17,945.00	17,450.00	495.00
4. Internal Auditor P2-2	Chief of Section P3-2	-	17,450.00	17,450.00
5. Agriculture Officer P2-2	Chief of Section P3-2	-	17,450.00	17,450.00
		40,160.00	87,250.00	57,610.00

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