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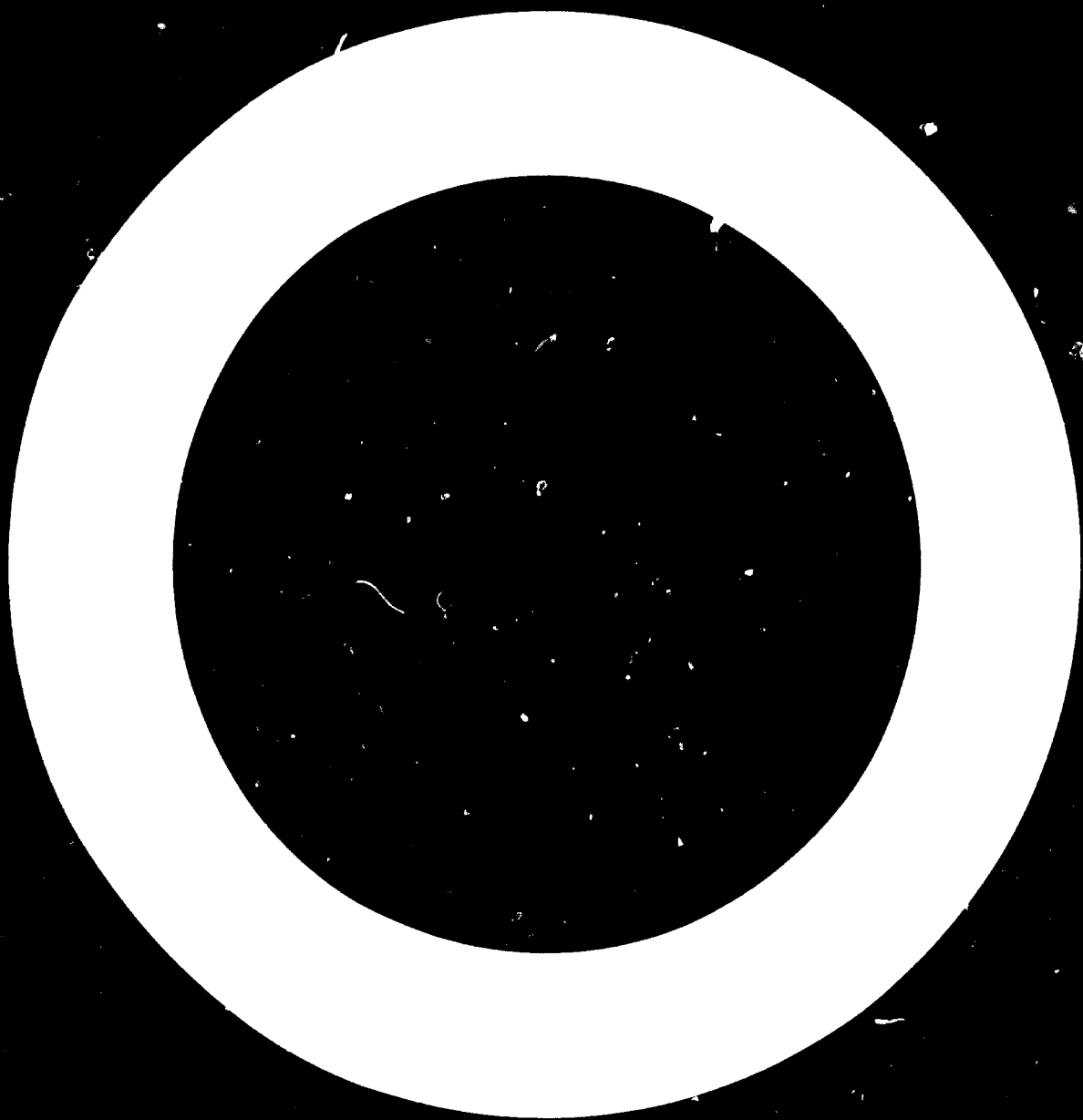


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REPORT
of
UNIDO
LONG RANGE PROGRAMMING MISSION
to the
EAST AFRICAN COMMUNITY, ARUSHA

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(IPPD/200)

We regret that some of the pages in the microfiche copy of this report may not be up to the proper legibility standards even though the best possible copy was used for preparing the master fiche.



REPORT ON A LONG RANGE PROGRAMMING MISSION
TO THE EAST AFRICAN COMMUNITY, ARUSHA

INTRODUCTION TO THE REPORT

A team of two UNIDO staff members was appointed to visit the Common Market and Economic Affairs Secretariat of the East African Community. The purpose of the visit was to discuss long-term requirements for UNIDO assistance in the industrial field and to assess the priority needs which would be met by UNIDO and other multinational assistance. The mission was requested to pay particular attention to such solutions which would also be in line with priorities of the individual Partner States.

The mission was composed of Mr. Arno Mareck, Chief of Section for Africa, Technical Co-operation Division and Mr. Ervin Salamon, Chief of Section of the Industrial Programming Section, Industrial Policies and Programming Division. The team arrived in Arusha, Tanzania, on 29 February 1970 from a long-term planning mission to Dar-es-Salaam. The mission concluded its discussions in Arusha on 4 March 1970.

Fruitful meetings and extensive discussions took place with His Excellency Dr. I. K. Magufo, M.B.A., Minister, Common Market and Economic Affairs Secretariat; Mr. B. Mwiraria, Secretary, Common Market and Economic Affairs Secretariat and Mr. V. Cerniansky, Chief of the Industrial Unit of the Common Market and Economic Affairs Secretariat. The discussions centered on the possible role of UNIDO to assist in solving the multifaceted problems which are being faced by the East African Community in bringing about accelerated, harmonious and balanced industrial development and on the methods and means to achieve these goals.

It should be noted that the Common Market and Economic Affairs Secretariat worked out a concept of a consistent and well thought-out basic approach to practical solutions for the accelerated development of East African industries and was fully aware of the serious constraints and difficulties in the implementation of this goal.

The creation of so-called "multinational industries" is being considered as the main approach for achieving balanced industrial development in the Partner States. Under multinational industries those industries are being understood which would contribute significantly to the growth of income, employment and foreign exchange savings and earnings of the Partner States. These industries would rely on the Common Market of the Partner States and their establishment would correspond to an optimal planned pattern of East African development.

A comprehensive combined and pragmatic planning and implementation exercise has been contemplated for orienting industrial development towards East African multinational industries. (See exhibit A) Successful pinpointing industries with multinational characteristics should provide a basis for consideration of the Community of the even greater problem of an equitable spatial distribution of the individual projects without inflicting harm to their viability. Preparations to this planning exercise are still to be done and at a later stage it can be envisaged that respective assistance might lead to technical assistance requests.

A concluding debriefing meeting was held with the Resident Representative of UNDP in Kenya. On the same day an information meeting was held with the Permanent Mission in East Africa of the International Bank for Reconstruction and Development.

It was not expected to arrive in a definite form on the formulation of the Community's need for technical assistance. The formulation of individual technical assistance projects as contained in this report is to be understood as a tentative indication of the priority needs only,

and is subject to modification as time comes, to put forward eventual requests for assistance. For that matter, this report does not present any commitment on the part of the Government or of UNIDO.

The report records the results of the discussions in the form of potential requests for technical assistance and/or form of job descriptions for individual experts. This has been done so in the belief that this way of presentation reflects in operational terms the Mission's understanding of the conclusions reached at the discussions. It is believed that this form would also facilitate the formulation of official requests for technical assistance.

Three such draft requests have been worked out:

Exhibit A: Request for technical assistance in initiating development of selected industries of multinational character.

Exhibit B: Strengthening of the Common Market and Economic Affairs Secretariat - Job Description for an expert on policy measures and the establishment of follow-up and review systems for multinational industries.

Exhibit C: Request for UNDP technical assistance (Special Fund) for the establishment of a Regional Centre for Standardization - the Community does not wish to consider a major part in the field of Metrology, the project should be established separately at one of the Universities of the Community.

The report contains brief information about the East African Community. This information is primarily intended for those users of the report who are not familiar with the role and functions of the East African Community in the field of industrialization.

The Mission wishes to express its gratitude to the UNDP Resident Representative in Kenya, Mr. Bruce Stedman and his collaborators for their guidance and active part taken in the Mission's work.

DISTINCTIVE CHARACTERISTICS OF THE EAST AFRICAN COMMUNITY WITH A VIEW TO ITS INDUSTRIAL DEVELOPMENT ACTIVITY

The East African Community was set up in June 1967 by the three Republics of Tanzania, Uganda and Kenya (defined as Partner States) with the aim of strengthening and regulating the industrial, commercial and other ties among the three Partner States with a view to bringing about accelerated, harmonious and balanced development. To achieve these aims, the Community is trying to establish common customs and tariff policies, abolish to the greatest extent trade restrictions between the Partner States, co-ordinate industrial planning and transport policies and to promote balanced industrial development. The intention has been declared to bring about parity in industrial development among the Partner States. Two ways have been adopted: first, is the establishment of the East African Development Bank, and second, is the introduction of the Transfer Tax System.

The East African Development Bank has an authorized share capital of 400 million shillings, the greater part of which is contributed by the Partner States. The East African Development Bank has been directed to participate in development projects aimed at bringing about industrial development by providing financial and technical assistance. It has been instructed to invest in projects so that in any given five year period, it will have invested 30.75 per cent of its resources in Tanzania, 38.75 per cent in Uganda and 22.5 per cent in Kenya. The Bank has a Chairman, who is also the Director-General and a Board of Directors. It operates on purely business principles.

A Transfer Tax is levied on manufactured goods leaving Kenya to enter either Uganda or Tanzania or leaving Uganda for Tanzania in order to protect industries producing similar goods in the less industrially

developed countries from undue competition. The Tax can be imposed only for eight years on any one product, and the whole system will be reviewed after five years from 1 December 1967 and abolished after 15 years. The protection afforded by the Transfer Tax system cannot in any case exceed 50 per cent of the rate of the external customs tariff.

The three Heads of State in terms of the Treaty and the Community are known as the East African Authority. The Authority meets at least three times a year and it is responsible for the general direction and control of the performance of the executive functions of the Community.

There are three East African Ministers in the Community's Central Secretariat, whose functions are to assist the Authority in its executive functions to the extent required by and subject to the control of the Authority. They advise the Authority generally in respect of the affairs of the Community. The Ministers, one from each Partner State, are appointed by the Authority, and are helped by three Deputy Ministers appointed in the same manner.

The Secretary-General is the head of the civil service of the Community and the Principal Executive Officer of the Community. He is Secretary to the Authority, Committee of Ministers and all the Councils of the Community. His appointment is made by the Authority.

There is a Central Secretariat housed at Arusha, Tanzania, composed of three Secretariats- (Finance and Administration, Common Market and Economic Affairs, and Communications, Research and Social Services), the Chambers of the Council to the Community and the Office of the Secretary-General and the East African Legislative Assembly. Each Secretariat is headed by a Minister at political level and a Secretary at civil service level.

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It must be noted that the Community exercises its operational function "on behalf of the Partner States" and therefore the priorities determined by the Community are to reflect fully the interest of the Partner States. For that matter, plans for industrial development developed by the Community, should be primarily considered as attempts for co-ordination of the existing plans which might acquire the function of being a qualitative addenda to the plans of the Partner States. In any case, these new Community plans have to take fully into account by their very nature the interest of the Partner States. Naturally, this raises considerable methodological and substantive problems. It is therefore safe to assume that technical assistance to the Community in activities which are cutting across the boards of the industrial activities like formulation and implementation of plans (both at the sectoral as well as project level), harmonization of policy measures and incentives, standardization and metrology, research and product development, statistics and similar, are likely to assume priority importance in future.

In implementing the goals of the Community in the field of industry the steps are wisely taken in a very cautious and studious way - this much more so since there is no previous experience available in other countries where a lesson could be learned.

REQUEST
FROM THE EAST AFRICAN COMMUNITY TO
THE UNITED NATIONS ORGANIZATION FOR INDUSTRIAL DEVELOPMENT
FOR TECHNICAL ASSISTANCE (SIS)
IN INITIATING DEVELOPMENT OF SELECTED INDUSTRIES OF MULTINATIONAL CHARACTER

I. Summary of the Project

The project aims at assisting the East African Community in both identifying industrial investment opportunities and preparing and evaluating respective project documents for industrial enterprises which could qualify as "multinational" enterprises which could play a particular role for the industrial development in East Africa and would contribute significantly to the growth of income, employment and foreign exchange savings and earnings of the Partner States.

II. Background information

One of the major aims of the East African Community is to strengthen and regulate the industrial ties among the Partner States in order to bring about accelerated, harmonious and balanced industrial development. To achieve this objective, the Community is striving to establish and maintain co-ordinated planning activities.

A particular role in this effort is attached to the establishment of "multinational industries" which would be established and which would cover the markets of all the three Partner States. The Community therefore is initiating a long-term programme for the identification, creation and development of such enterprises. The first three industrial sectors which have been selected for a systematic analysis of potentials in

this respect are the iron and steel industry, the automotive industry and the chemical industry. Further industrial sectors will probably be selected in accordance with findings of the studies envisaged in the programme.

The programme of developing multinational industries will be carried out in two phases.

During Phase one mainly the systematic identification of multinational industries will be undertaken. In these studies first the existing industries will be examined as to whether they would qualify for being considered multinational industries. Similarly these industrial projects will be reviewed which are at that moment in the stage of planning or implementation. Finally, it is envisaged to identify new "multinational" industries.

The industrial enterprises and projects thus identified will be screened and the most promising ones selected for the preparation of pre-feasibility studies in the Phase two of the programme.

It is assumed that this selection and also the subsequent evaluation of projects can be partly based on the study on the projection of economic development of the East African sub-region prepared in 1968 by a mission sponsored by the United Nations organ U.N.P.D.P.

It is envisaged that in the Phase one also the work programme for Phase two will be elaborated, based on the earlier findings and in compliance with the strategies and plans of the Partner States.

Phase two will follow up the results of the previous studies. Pre-feasibility studies will be prepared for the extension or establishment of "multinational" industries.

In addition, detailed proposals will be elaborated for the designing of rational measures and policies to be undertaken by the Partner States in order to actually bring about the development of multinational industries.

III. Description of the project

The main objective of the project is to provide the services of a team consisting of four UNIDO experts to assist the East African Community in carrying out Phase one and in preparing the scope of Phase two of the outlined programme of developing multinational industries. Pending the findings of the first phase, further assistance from UNIDO may be requested.

More specifically, the team will assist in preparing detailed studies on existing industrial enterprises as well as on projects which are in the stage of planning or implementation in the three Partner States. A systematic identification of new industrial opportunities for the Community will be included in the work programme of the team. The ultimate aim is to identify and prepare proposals for the development of multinational industries in the three Partner States.

The team will also elaborate preliminary proposals for appropriate measures to be undertaken by the Partner States to streamline the development and optimize the benefits of multinational industries in the Community as a whole.

The team needed to carry out these tasks will consist of the following experts:

- (i) industrial economist (team leader) - 6 months
- (ii) industrial engineer, specialized in iron and steel - 3 months
- (iii) industrial engineer, specialized in automotive industry - 3 months
- (iv) industrial engineer specialized in petrochemical, basic chemical and fertilizer industries - 3 months.

IV. Project components, duration and estimated costs

IMICO expert team

	<u>duration</u>	<u>estimated costs</u>
a) industrial economist (team leader)	6 months	\$ 12,000
b) industrial engineer (iron and steel)	3 months	\$ 6,000
c) industrial engineer (automotive)	3 months	\$ 6,000
d) industrial engineer (petrochemicals, basic chemicals, fertilizer)	3 months	\$ 6,000
TOTAL	15 m/m	\$ 30,000

V. Job Descriptions

A. Industrial economist

Post title: Industrial economist

Duration: 6 months

Date required:

Duty station: Arusha/Tanzania with extensive travel in Tanzania, Kenya and Uganda.

Duties: The expert will be the leader of a team of three other experts. These experts will be industrial engineers, each specialized in one of the industrial sectors, a) iron and steel industries, b) automotive industries and c) petrochemical, basic chemical and fertilizer industries.

Under the general guidance of the Common Market and Economic Affairs Secretariat of the East African Community the expert will be expected to:

1. Prepare and follow-up the work programme of the team in studying industrial enterprises and projects with a view of identifying and developing multi-national industries for the Community.
2. Act as team leader for and guide and co-ordinate the work of three technical experts and in particular give due attention to all economic aspects of their work and to the findings.

3. Prepare a list of selected enterprises and projects which should be more thoroughly analyzed and treated in the second phase of the programme of the Community for developing multinational industries.
4. Study the possibilities for and formulate tentative proposals of measures to be undertaken by each of the three Partner States in order to streamline the development of and optimize the benefits of multinational industries in the Community as a whole.
5. Formulate the scope of the work to be undertaken in the second phase of the programme.

Qualifications: Industrial economist with considerable experience in industrial project analysis, marketing, industrial surveys and industrial policies. Knowledge of the industrial development in East Africa and experience in the field of industrial co-operation in the framework of Common Markets will be an asset.

Language: English.

B. Industrial engineer

Post title Industrial engineer

Duration: 3 months

Date required:

Duty station: Arusha/Tanzania with extensive travel in Tanzania, Kenya and Uganda.

Duties: The expert will be a member of a team of experts consisting of three other experts. These experts will be one industrial economist (team leader), an industrial engineer, specialized in automotive industries and an industrial engineer specialized in petrochemical, basic chemical and fertilizer industries.

Under the general guidance of the team leader, the expert will carry out a survey of the iron and steel industry in the three Partner States, Kenya, Tanzania and Uganda.

The expert will be expected to:

1. Carry out a detailed survey on existing iron and steel industries to examine the problems and potentials of developing these into multinational industries to serve the Community as a whole.

2. Examine in a similar way industrial projects in the iron and steel sector which are in the stage of planning or implementation in the three Partner States.
3. Identify new industrial opportunities for industries in this sector which could possibly qualify as multinational industries.
4. Prepare a list of enterprises and projects which need to be further analyzed and evaluated in the second phase of the programme of the Community for developing multinational industries.
5. Elaborate tentative proposals for appropriate measures to be undertaken by the three Partner States in this sector to stimulate the development of selected multinational industries.

Qualifications: Industrial engineer with considerable experience in the iron and steel sector and broad knowledge of industrial project analysis and industrial surveys preferably in developing countries.

Language: English.

C. Industrial engineer

Post title: Industrial engineer

Duration: 3 months

Date required:

Duty station: Arusha/Tanzania with extensive travel in Tanzania, Kenya and Uganda.

Duties:

The expert will be a member of a team of experts consisting of three other experts. These experts will be one industrial economist (team leader), an industrial engineer specialized in iron and steel industries and an industrial engineer specialized in petrochemical, basic chemical and fertilizer industries.

Under the general guidance of the team leader, the expert will carry out a survey of the automotive industry in the three Partner States, Kenya, Tanzania and Uganda.

The expert will be expected to:

1. Carry out a detailed survey on existing automotive industries to examine the problems and potentials of developing these into multinational industries to serve the Community as a whole.
2. Examine in a similar way industrial projects in the automotive sector which are in the stage of planning or implementation in the three Partner States.

3. Identify new industrial opportunities for industries in this sector which could possibly qualify as multinational industries.
4. Prepare a list of enterprises and projects which need to be further analyzed and evaluated in the second phase of the programme of the Community for developing multinational industries.
5. Elaborate tentative proposals for appropriate measures to be undertaken by the three Partner States in this sector to stimulate the development of selected multinational industries.

Qualifications: Industrial engineer with considerable experience in the automotive industries in general and in production of passenger cars, trucks and tractors in particular and broad knowledge of industrial project analysis and industrial surveys preferably in developing countries.

Language: English.

D. Industrial engineer

Post title: Industrial engineer

Duration: 3 months

Date required:

Duty station: Arusha/Tanzania with extensive travel in Tanzania, Kenya and Uganda.

Duties:

The expert will be a member of a team of experts consisting of three other experts. These experts will be one industrial economist (team leader), an industrial engineer, specialized in iron and steel industry and an industrial engineer specialized in the automotive industry.

Under the general guidance of the team leader, the expert will carry out a survey of the petrochemical, basic chemical and fertilizer industries in the three Partner states, Kenya, Tanzania and Uganda.

The expert will be expected to:

1. Carry out a detailed survey on existing petrochemical, basic chemical and fertilizer industries to examine the problems and potentials of developing these into multinational industries to serve the Community as a whole.
2. Examine in a similar way industrial projects in the petrochemical, basic chemical and fertilizer sector which are in the stage of planning or

implementation in the three Partner States.

3. Identify new industrial opportunities for industries in this sector which could possibly qualify as multinational industries.
4. Prepare a list of enterprises and projects which need to be further analyzed and evaluated in the second phase of the programme of the Community for developing multinational industries.
5. Elaborate tentative proposals for appropriate measures to be undertaken by the three Partner States in this sector to stimulate the development of selected multinational industries.

Qualifications: Industrial engineer with considerable experience in the petrochemical, basic chemical and fertilizer industries and broad knowledge of industrial project analysis and industrial surveys preferably in developing countries.

Language: English.

Exhibit B

D R A F T

EAST AFRICAN COMMUNITY

Common Market and Economic Affairs Secretariat

JOB DESCRIPTION

Post title: Expert on Industrial Policy Measures

Duration: 12 months

Date requested: Third quarter of 1970

Duty station: Arusha, Tanzania

Purpose of project: To assist the Common Market and Economic Affairs Secretariat of the East African Community in the examination and formulation of new and existing measures designed to facilitate the growth and smooth operation of multinational industries. As multinational industries only those industrial enterprises qualify which could play a particular role in the industrial development of the Partner States and which would significantly contribute to the States' growth of income, foreign exchange savings and earnings and employment.

Duties:

The expert will be working in the Industrial Unit of the Common Market and Economic Affairs Secretariat and is expected to:

1. Examine the present structure of tariffs for the Partner States with special emphasis to multinational industries.
2. Advise on protective policy measures (existing and new) for multinational industries, avoiding thereby possible distortion effects of these policies.
3. Advise on suitable tariff structure and tax measures designed to facilitate growth of multinational industries.
4. Organize a system for periodic review and day-to-day follow-up of the effects of incentive and protection measures and of their consistency with the goals of the Community and the development targets of the Partner States.

Qualifications:

Industrial economist with broad experience in the field of industrial development problems. Extensive experience in advising government and multinational organizations on problems related to industrial policies particularly in analyzing the impact of policy measures on industrial development.

Background
information:

The East African Common Market forms the main organ of the East African Community and covers a wide range of activities including external and intra-East African trade, industrial development, currency and banking. Within the Common Market, Kenya, Tanzania and Uganda pledge to maintain a common customs tariff and avoid entering into agreements whereby tariff concessions entered into between one Partner State with foreign countries will not be available to East Africa as a whole.

Free transit of goods within the area is guaranteed and there are declarations against internal tariffs and quantitative restrictions on goods from one East African country to another. There are rules against any discrimination of goods from one country to another in the Community and provisions for the removal of differences in the excise tariff.

To promote balanced industrial development in the three countries, Kenya, Uganda and Tanzania have declared they will harmonize fiscal incentives offered to investors. A Transfer Tax System which will operate for 15 years enables a country whose total trade in manufactured goods with another is in deficit to impose a tax on such goods coming from that country to a value equivalent to the deficit. There are however several rules governing the nature, rate and period for which such taxes are imposed.

The East African Development Bank gives financial and technical assistance in the promotion of industrial development in the three countries. It aims at financing wherever possible projects designed to make the economies of the three countries increasingly complementary in the industrial field and co-operating with other institutions interested in the industrial development of the countries.

The Community has three secretariats which together with the Office of the Secretary-General and the E.A. Legislative Assembly form the Central Secretariat, whose headquarters are at Arusha, Tanzania. These are the Common Market and Economic Affairs, Finance and Administration, and Communications Research, and Social Services. In addition there are five councils which determine policy on specific areas: Finance, Common Market, Communications, Research and Social Services, Economic Consultative and Planning. Each Secretariat is headed by an East African Minister, as is each Council. The Chairmanship of a Council is related to the Secretariat that a Minister heads.

Four Corporations operate under the Community - Airways, Harbours, Railways and the Posts and Telecommunications. A Development Bank, situated in Kampala, Uganda, also operates as an institution of the Community. The Community has a Legislative Assembly, a Common Market Tribunal, a Service

Commission and an Industrial Court. Current membership of the Community is three, but at the time of completion, Tunisia, Ethiopia, Somalia and Burundi had applied to join and had been guaranteed at the inaugural Authority meeting at Arusha, that their applications would never be rejected.

An Industrial Unit has been set up in the Common Market and Economic Affairs Secretariat, the main objective of which is to carry out studies and engage in operational activities for the promotion of multinational industries

**REQUEST
FROM THE EAST AFRICAN COMMUNITY TO
THE UNITED NATIONS DEVELOPMENT PROGRAMME (SPECIAL FUND)
FOR TECHNICAL ASSISTANCE IN THE ESTABLISHMENT OF A
REGIONAL CENTRE FOR STANDARDIZATION**

I. Summary of the Project

The purpose of the project is to assist the East African Community in establishing a regional centre for standardization and metrology. The centre will, in general, co-ordinate and promote activities in standardization and metrology in the Community. It will, in particular, be expected to:

- (a) co-ordinate and unify the specifications and ultimately the national standards published in the individual countries used in the East African Community whenever possible, with a view to facilitate trade and co-operation in the economic and industrial fields and raising the production and quality in the Community,
- (b) unify basic measurement units and methods of sampling, testing and reporting in the Community.

These objectives would be achieved through the following means:

- 1. Providing assistance to local authorities for the establishment of NSB's or equivalent,
- 2. Ensuring co-operation between these NSB's and metrology centres in the Partner States and assisting and publishing unified East African Community recommendations on all specifications in order to define the characteristics and level of quality of raw materials, substances, products, goods, instruments, equipment and codes of practice,
- 3. Co-ordinating and unifying measuring units, classifications, technical terms, definitions, symbols, as well as drawing principle methods of analysis and testing and systems in conformity to standards,

4. Formulating and implementing an active programme of information for the dissemination of data and pertinent material to industry and other interested parties,
5. Training the various specialists and technicians required for all fields related to standardization and metrology,
6. Co-ordinating the activities of the Community in the field of standardization and metrology with those of international organizations, and particularly with the International Organization for Standardization and participating in their work.

II. Background Information

Industrial development in the three Partner States is rapidly increasing in importance and for a long time it has been recognized that there is a necessity for the simultaneous development of a centralized system of standards in order to ensure that the growth of the countries follows a rational pattern. It is envisaged that a centralized system of standards on a Community basis will enhance the inter-State trade and boost at the same time the export of products grown and manufactured in the Community.

The main objective of the assistance required from UNDP (Special Fund), therefore, is to establish a Community Standards Institution for the preparation, publication and implementation of industrial standards and the centralization of standardization methods throughout the Community's Partner States.

III. Description of the Project

The centre would be established as the official organization within the framework of the East African Community to handle all matters in standardization and metrology. It would be governed by a Council set up by the Partner States. It would be managed in its day-to-day work by a director who would have an advisory panel established by the Council. In the early stages of the project, the duties of the director would be temporarily executed by the internationally recruited Project Manager.

Since the centre has common interests with the existing CAIRO, it would be expected to work in close liaison with it. In order to conduct this operation in the most efficient manner, the centre would be located at a site suitable for easy communication between both organizations.

The centre will be organized in divisions to cover the following areas:

- (a) General Standards
- (b) Agricultural and Food Industries
- (c) Chemical Industry
- (d) Material and Construction Industry
- (e) Metallurgy and Mines
- (f) Mechanical Industry
- (g) Electro-technical and Electrical Industry
- (h) Light Industry (textile, leather, wood, paper, etc.)
- (i) Packaging and Transportation
- (j) Others (security, health and hygiene)

IV. Contributions

The UNDP (Special Fund) is requested to supply for four years at an estimated total cost of US\$ 570,000, the following:

- (a) A team of experts for a total of 10 man-years and short-term consultants for a total of 2 man-years, as detailed in the table below. The total cost is estimated at US\$ 434,000;
- (b) Six (6) fellowships for counterpart personnel for an estimated total cost of US\$ 36,000,
- (c) Equipment and supplies for the laboratories, information centre and miscellaneous items at an estimated total cost of US\$ 100,000.

Contribution of Experts by UNDP (SF)

<u>Experts</u>	<u>Total</u> m/m	<u>Year 1</u> m/m	<u>Year 2</u> m/m	<u>Year 3</u> m/m	<u>Year 4</u> m/m
1. Project Manager	48	12	12	12	12
2. Mechanical/Electrical Engineer	24	-	12	12	-
3. Chemical Engineer	30	6	12	12	-
4. Food Industries Expert	24	12	12	-	-
5. Metallurgy, Mass Volume, Length	18	-	12	6	-
6. Metrology, Metrication and Instruments Repair	24	-	12	12	-
7. Legal Advisor	24	-	12	12	-
8. Short-term	24	-	-	-	-
<u>Total.</u>	<u>216</u>	<u>30</u>	<u>84</u>	<u>36</u>	<u>12</u>





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