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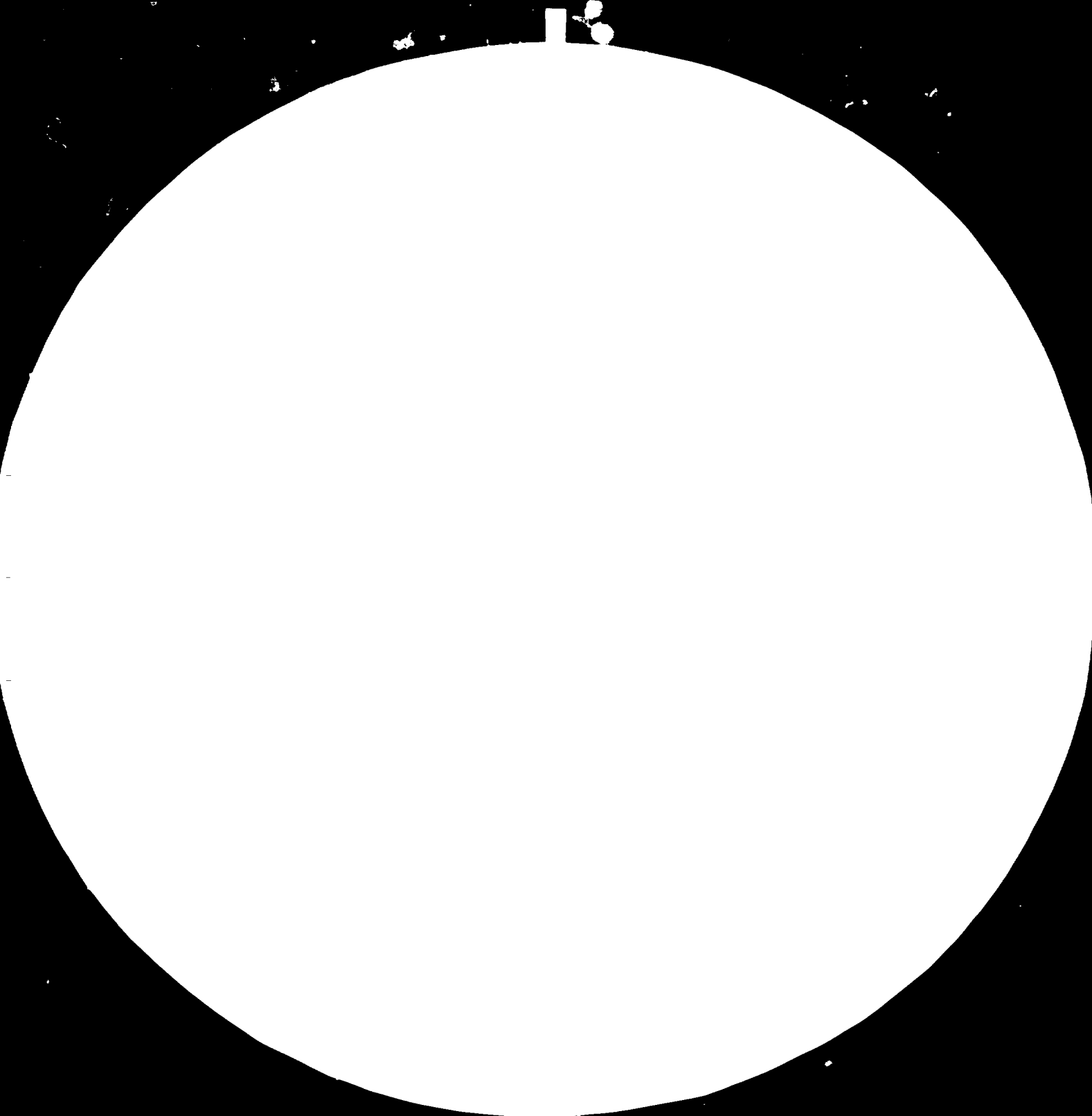
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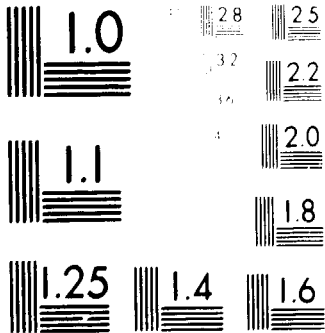
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Mission to Tanzania

of

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Industrial Operations Division

11 - 12 February 1980

This report has not been cleared with the United Nations Industrial Development Organization (UNIDO) which does not therefore necessarily share the views presented.

DP/URT/78/019 - Assistance to the Tanzanian Industrial Research and
Development Organization (TIRDO)

A meeting was held with Mr Tarimu, the Director General of TIRDO, Mr Henein, SIDFA, and Mr Forss, JPO, to review progress in implementation.

1. The four officially submitted candidates for the STA post and some other candidates were evaluated in committee and a ranking exercise was carried out.

UNIDO Vienna was requested to submit, officially, candidates Riege and Tanyolaç. As well, TNO Netherlands will submit two additional candidates. Mr Tarimu requested candidates Bernstein and Stone to be eliminated.

Mr Tarimu will come for two days to Vienna at the end of March to meet Mr Mosgard. PPRS are requested to bring Messrs Tanyolaç and Riege to Vienna during the same time for official interviews. Thereafter, I will interview the two candidates from the Netherlands at The Hague, and Mr Tarimu will also make their acquaintance when he visits a number of TNO IRSI's in the Netherlands. It is expected that a final decision will be made by Mr Tarimu on the choice of the STA by the beginning of April and Government approval is expected by the beginning of May. It is hoped that the selected STA can be fielded by June or July because his presence is urgently required.

2. It was decided to start drafting job descriptions for:

posts	11 - 03	Engineering,
	11 - 05	Analysis and Testing,

11 - 06 Information Retrieval, and
11 - 07 Information Extension

as soon as possible so that recruitment action can start immediately. This also applies to some of the Associate Expert posts.

It will be considered to bring Expert 11 - 03 and Expert 11 - 05 for one month to Dar es Salaam prior to their assignment in order to assist in establishing the equipment lists. Close co-ordination is required between subject project and the Engineering and Design Centre, which is at present under consideration for funding by Danish sources.

3. The construction of the housing units is making very good progress and it is expected that the STA can be housed upon arrival. One of the houses will be reserved for use as a temporary Information Centre. Site preparation is under way for the administration and some of the laboratory buildings.

One of the local textile factories has granted facilities for a pilot plant which is under construction.

4. There is a scarcity of certain staple items in Dar es Salaam and the Res Rep should be contacted with a request to try to correct this situation for all experts who will be assigned to the project in the future.

5. Action is under way to solicit assistance from bilateral sources such as Yugoslavia, Ireland, Netherlands, Egypt, India and Brasilia either for equipment or training facilities.

6. Mr Tarimu is actively trying to recruit candidates for the Fellowship posts and it is planned to commence their training by the beginning of January 1980, however, it is possible that some delay will be experienced.

7. One vehicle is currently being purchased. Mr Tarimu has suggested advancing the purchase of the second vehicle budgeted for 1981 to 1980.

Renewable Sources of Energy

The Ministry for Water, Energy and Mineral Resources has primary responsibility for energy in Tanzania. Also, the Tanzanian National Science and Research Council (TNSRC) has certain responsibilities in this field.

An exchange of views was held with Mr Asman, a senior official of TNSRC in the presence of Messrs Tarimu (Director General of TIRDO), Henein (SIDFA), and Forss (JPO).

It appears that the Ministry of Water, Energy and Minerals is mainly concerned with conventional (non-renewable) energy resources such as petroleum, natural gas, coal and peat. UNIDO is involved in petroleum and coal projects.

Petroleum represents, at present, 40% of the total imports for Tanzania and amounts to TS 1,8 billion (US\$ 220 million). This, of course, is a very critical situation and remedial action is required urgently.

At the rural level, a large number of activities are going on in the development of biogas, windmills, water wells, solar drying, solar coolers, kitchen stoves, etc, by a number of organizations such as SIDO, University of

Dar es Salaam, Australia Water Wells project, Ministry of Water, Energy and Minerals, OXFAM, NADECO, CDA, the ATP in Arusha, UN University, Missionaries, etc. Tanzania is the co-ordinating agency for the Commonwealth Science Council for biogas, windmills and photovoltaic devices. The Electricity Corporation is involved in a number of hydro-power schemes.

What seems to be lacking are efforts at the intermediate energy level such as large-scale windmills (200 kw - 2 MW range), biomass conversion (alcohol, methane and pyrolysis of coffee husks), mini- and micro-hydroplants and utilization of ocean movements (tide, currents, waves). It was agreed that the TNSRC would make an official request for UNIDO assistance to cover this gap. No IFF funds are available at present so that the project should be financed either by UNIDF, SIS, or probably by the UNST fund.

Before launching this project, an investigation of a Canadian funded project in the energy field should be reviewed in order to avoid duplication. The JPO will try to obtain this document together with a reply to a UNDP organized survey on alternative sources of energy carried out by Mr Harland of UNDP New York.



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