

**Strengthening Drought Resilience
in the Pastoral and Agro-pastoral Lowlands of Ethiopia
Somali Region Project
(PN 12.9761.3-003.00)
Terms of Reference**

**Herbarium digitization equipment identification and in-service training to 4
Herbarium technicians from Somali Pastoral and Agro-Pastoral Research
Institute and Jigjiga University.**

Background

The Strengthening Drought Resilience (SDR) Support Program in Pastoral and Agro-pastoral Areas of Ethiopia was launched in 2013 as a support to the Ethiopian Government in the implementation of its economic development strategies. It is closely linked to the Country Programming Paper (CPP) to End Drought Emergencies in the Horn of Africa and anchored in the over-arching Growth and Transformation Plan (GTP). The programme is implemented jointly by the Ethiopian Ministry Livestock and Fisheries (MoLF), the Ethiopian Ministry of Agriculture and Natural Resources (MoANR), their respective decentralised bureaus and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), mandated by the German Federal Ministry of Economic Cooperation and Development (BMZ). The programme with its different projects aims overall at strengthening the capacities of communities and responsible institutions in the Afar and Somali Region to implement drought resilience measures within a legal, political and institutional framework reflecting the concerns of pastoralists and agro-pastoralists. The project has been designed to respond to the needs and priorities of pastoralists and agro-pastoralists in the Afar and Somali Region and to the key problems in the management of the natural resources, they are facing. The measures will be focusing on the adaptation of Natural Resource Management (NRM) to the local situation by pilot-interventions on community level, the improvement of livelihoods based on income generating activities and the development of capacities of major stakeholders at village, community, regional and national level.

Overall Objectives for the Assignment

Somali Pastoral and Agro-pastoral Research Institute (SoRPARI) has more than 1250 plant specimens collected in early 1990s, and some of the specimens which have immense values may be lost due to aging and the condition of storage facility, and immediate action is required to preserve these precious plant materials. One of the modern method of preserving the herbarium specimens is digitizing them. Considering this issue, the SDR of GIZ wants to support SoRPARI for the preservation of these plant materials.

Thus a consultant is expected, to design and plan the digitization of herbarium specimens by identifying the suitable equipment and software for digitization and storage data for later use, and develop the specifications of the equipment as to accelerate the procurement of the right material for the task. The herbarium specimens are available in Somali Pastoral and Agro-pastoral Research Institute (SoRPARI) head quarter, Jigjiga, Ethiopia.

The consultant will provide in-service training to up to four laboratory technicians for the digitization of herbarium specimens, data storage and maintenance of the instruments.

The specific objectives for the assignment including all tasks comprise:

- Identification of the suitable herbarium digitization equipment and soft-wares;
- Develop the specification of the herbarium digitation equipment and soft-ware;
- Extensive in-service herbarium digitation, and data storage training to SoRPARI and Jigjiga University Staff.

Deliverables

- Plan the digitization of SoRPARI herbarium specimens, and provide the required training to 5-6 laboratory staff from SoRPARI and Jigjiga University;
- Develop herbarium digitization protocol for SoRPARI herbarium specimens;
- Provide training on data storage, retrieval and maintenance of herbarium digitation equipment to 5-6 SoRPARI and Jigjiga University staff;
- Documentation of the training, including the suitability of herbarium digitization.

Expertise and Qualifications Required

- Bachelor or Master degree in Biology or related field;
- Minimum 2 years of experience in herbarium specimen digitization;
- Good knowledge of herbarium management and in the tropics;
- Facilitation skills and experience with organising and implementing ToT.

Supervision and Reporting

The successful applicant will be reporting to the SDR ASAL SR project manager embedded in the GIZ-SDR programme during the preparation of the workshop and during its implementation and for finalising the documentation.

Duration and contract specificities

The total number of days is estimated at 12 days; this includes one day in which the consultant will be oriented the work of SDR program and the herbarium related activity of SoRPARI.

The financial offer of the consultant has to include all the costs necessary to deliver the work described in these terms of references; and the offer should include the following positions:

- Name of the consultant and his/her CV
- Honorary at home and Ethiopia; subdivided into honorary for travel days and work related days
- Daily subsistence allowance for Ethiopia
- Cost of international flights if needed
- Other related costs like visa

The assignment should take place during the time period 15.12.2017 – 15.03.2018.