

nutrient efficiency. The programme is also responsible for coordinating soil and leaf analysis services with long-term objective of developing national tea database. The newly constructed TRIT Soil /Plant analysis laboratory is part of this programme.

### ACTIVITIES & ACHIEVEMENTS

Activities conducted in SFMP to achieve its goals include Re-evaluation of the current fertilizer recommendations, initiation and implementation of new fertilizers trials and coordination soil and leaf analysis at TRIT laboratory

### **Technology Transfer Programme (TTP)**

TTP focuses on effective communication of research results to the tea industry as a whole particularly to small-holder tea growers with the aim of increasing tea productivity, profitability and hence improving their livelihood.

### ACTIVITIES & ACHIEVEMENTS

A range of approaches and activities are conducted to achieve this goal. They include Participatory evaluation of tea technologies with farmers, developing & disseminating training materials to farmers and extension workers, providing tailor made extension services to tea growers and supporting the rehabilitation and expansion of small-holders' tea fields through nursery development

The key achievements of this programme include organizing farmers to form group for producing plants whereby over 50 millions plants were propagated since 2001 and about 50,000 farmers were trained under farmer training programme.



### **Collaboration**

TRIT has initiated and is keen to develop collaborative activities with various institutions in both the developing and developed world. MoU with TRFK, TRFCA, Ministry of Agriculture, SUA, Cranfield University and other affiliated professional institutions. are some of the frameworks from which TRIT has pursued collaborating with potential partners

### **Funding**

TRIT is funded through stakeholders' voluntary contributions, government contributions and through grants from willing donors. Sustainability is further ensured through various income generating projects started by TRIT.

*The Executive Director,  
TEA RESEARCH INSTITUTE OF TANZANIA  
P.O Box 2177 , Dar es Salaam Tanzania  
Phone: 255 (0) 22 2122033 ,  
Fax: 255 (0) 22 2113838  
Email: [info@trit.or.tz](mailto:info@trit.or.tz); [trit@bol.co.tz](mailto:trit@bol.co.tz)*



## **TEA RESEARCH INSTITUTE OF TANZANIA**



*"Serving the Tea Industry in  
Tanzania"*



The Tea Research Institute of Tanzania (TRIT) was established in 1996 as an autonomous organisation representing the Government of Tanzania and the Tea industry.

TRIT aims to support the development of both small and large-scale producers through appropriate, cost effective, high quality research and technology Transfer, to ensure the sustainability of the industry.

TRIT objectives are to:

- Provide answers to practical problems of immediate concern to the industry;
- Identify the financial benefits of research recommendations;
- Communicate the results of this work to the industry in appropriate, unambiguous way
- Explain, where possible, the mechanisms responsible for the observed responses, so that the results can be applied with confidence to other locations; and
- Subject this work to peer group review through scientific publications when justified

The Institute operates in partnership with producers in all major tea growing areas. It also manages two research stations representing the two major Agro-climatic zones where tea is grown.

Ngwazi Tea Research Station serving the Southern Highlands and Marikitanda Tea Research Station serving the Northern Zone.

Research and Technology Transfer activities are being implemented under the following programmes;

- Crop Water Management,
- Crop Improvement ,
- Soil Fertility management and
- Technology Transfer

TRIT publishes annual Reports covering these activities as well as organising conferences and open days annually.

## Crop Water Management Programme (CWMP)



### Focus

TRIT is a leading institution in Crop Water Management in tea in the entire East and Central Africa focusing on;

- Ways of using water efficiently; higher yields per drop, cost saving; increased crop and Labour productivity;
- Studies on soil and water conservation, drip & overhead irrigation and fertigation, for both the estate and smallholder tea sectors, and for conservation of the environment.

### ACTIVITIES & ACHIEVEMENTS

In order to achieve these, various activities are being conducted including studies on efficient use of water and nutrients, Drip irrigation and fertigation, Soil and water management studies, Crop x environment interaction for tea production and Crop physiology studies.

As a result of the findings from these research activities over 70% of tea estates in southern highlands are irrigated. Currently steps are being taken to develop irrigation packages suitable for the smallholder tea based Farming Systems.

## Crop Improvement Programme (CIP)

### Focus

The key focus of this programme is to provide suitable planting materials for the entire Tanzania tea based farming systems. The strategy involves both plant selections from existing clones, sourced from within and outside the country. Composite plants resistant to drought are also considered for development. Long-term breeding programme is being developed.



### ACTIVITIES & ACHIEVEMENTS

CIP conducted a range of activities that aims to achieve its key goal. They include Selection, evaluation and distribution of promising materials, Evaluation of cuttings of imported selected clones and Training in clone evaluation and breeding to our key stakeholders. Currently 34 clones imported from abroad are being evaluated whereas 4 locally selected clones are in the final stage of evaluation before being released to farmers.

## Soil Fertility Management Programme (SFMP)

### Focus

The focus of SFMP is to develop a sustainable system of soil fertility management; The focusing on maintaining high soil organic matter, soil health and soil structure, reducing soil loss and increasing