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## BACKGROUND

Mt. Elgon Labour - Based Training Centre was established in1995 by then districts have been trained. Further, about 502 km of gravel roads and well as motorcycles (but not cars and HVs). 14.4km of Low Cost Sealed roads have been constructed through trial roads and training model roads creating over 530,000 jobs per day.

## ning infrastructure to a required standard

about 1056 person days;

Cost effectiveness. It has been established that the cost of constructing a bottlenecks for rural areas. road using labour based method is cheaper than equipment based methods; Gender sensitive. The use of labour based methods encourages the use eliminates the use of heavy equipments which emit a lot of gases into the environment

Ownership. Involvement of local people in the construction develops a sense of ownership in the facility and can hence be able to protect it:

Use of local materials. Materials used during construction are locally available hence eliminating the need for foreign exchange

Skills transfer. The local people involved in the construction develop skills hich they use later in the maintenance of the roads

NEW DEVELOPMENTS AT MELTC Two new course modules have been introduced into the MELTC training curriculum namely Low Cost Sealing and Stone masonry Arch bridge construction. Bridges to prosperity comes to Uganda Bridges to Prosperify (B2P) is an international nongovernmental organization (non-profit) which assists isolated communities in obtaining access to essential health care, education, and economic opportunities by building footbridges over impassable rivers. B2P has built more than 250 bridges in 20 countries around the world, and recently expanded into

B2P and MoWT began field work and meetings in October 2016 to investigate a potential partnership and carry out a rapid needs assessment. The MoU was fully signed by both parties to the partnership on 11th August. 2017. The partnership aims to tackle poor and inefficient connectivity in

isolated rural communities, especially those in hilly terrains which are highly the MOWT in accordance with MoU. The value/cost may vary depending susceptible to natural calamities e.g. seasonal floods. The current lack of Ministry of Works, Housing and Communications with support from the bridges can in creases travel times and cost of mobility to access resources. for local labor and local materials on behalf of MoWT, as B2P is overall Nordic Development Fund and backstopped from the International Labour Nordic Development Fund and backstopped from the International Labour Organisation (ILO). The training centre has since continued to receive essential health care, agriculture, tourism, education, and other economic support from the Government of Uganda and DANIDA through provision opportunities. The Partnership is in alignment with Strategic, Policy and bridge is serving as a Training of Trainers program between B2P and support non the docentration of operational control whole all operations of portabilities in the autority is in adjustment with one operational costs and technical Legislative manafales of the MWT, and in particular the particular the particle part suspended bridge which comests Mala assistance. The training centre is now full established as the National line with NDP II's development objectives which include, Increasing the and Sironko Districts. Site 2 – Namawukulu – Bududa District 95-meter Labour-Based Training Centre in the country. The mandate of the Centre is Stock and Quality of Strategic Infrastructure to Accelerate the Country's span suspended bridge This bridge was identified for its high nearby to develop capacity in both public and private sectors in the use of Labour Competitiveness, obtain middle income status by 2020 and Enhance Based Methods for road construction, Labour based methods world over transportation of agricultural products. The 5-year program involves. Sub county Ho, government services, primary/secondary schools, health have proved to offer a lot of benefits in relation to employment creation, construction of Cable Footbidges over impassable rivers and streams in the center, etc). Site 3 – Namakhokolo – Bududa/Molale Districts 105m span besides being gender sensitive and environmentally friendly. The indices of Uganda. The bridges are capable of spanning between suspended bridge This bridge was identified or its high nearly population establishment, over 360 staff from construction firms and staff from 56 20 and 120 meters. The bridges are able to pass pedestrians, animals, as (approximately 4,000), and a high need for a safe crossing (there has been

> There will be construction of 10 Cable Foot bridges over a 5-year period in locations identified through a systematic needs assessment process LOW COST SEALING Low cost Sealing for low volume roads was introduced

on type of bridge, span, and other site conditions. B2P will program manager MoWT will reimburse B2P on a quarterly basis. BRIDGE SITES SELECTED Site 1 – Kama Bridge – Mbale/Sironko Districts: This population (approximately 1,800), and a busy crossing point (close to the approximately 12 deaths in 3 years), because the existing timber bridge is in poor condition.

DEFINITION OF LABOUR BASED TECHNOLOGY The term "labour-based" is used to describe a technology in which labour, supported by also have a capacity building component through a "Training of Trainers" roads stems from the fact that good quality gravel is depleting and yet the light equipment, is used as a cost-effective method of constructing and initiative with MELTC. This will impart skills at different levels to disseminate natural renewal process is slow. The conventional sealing method requires The technology to other isolated communities with connectivity challenges. high quality materials which usually have to be hauled for long distances. The Capacity Building / Training will be rolled-out through MELTC for Moreover, most roads with low traffic volume may not require material with BENEFITS OF LABOUR BASEDTECHNOLOGY Employment creation. Use both Public and Private Sector. The program will also give accreditation such high specification. The use of locally available materials for sealing of of labour to work on the road creates employment for the local people and of Standards for Footbridges technology in Uganda and also conduct a roads has been identified as key in reducing the costs of construction. The hence increases their house hold income. 1 km of gravel road can create Nationwide Needs Assessment. This will in the end enable the Ministry to Centre offers training in the design and construction of roads using Low scale up and roll out technology across Uganda to fully tackle transportation Cost Seal technology. The training is intended for district and contractor

UNDER THE WORKING ARRANGEMENTS THE TERMS WILL BE Stone masonry arch bridge The need for provision of cheap and yet of both men and women; Environmentally friendly. The use of labour ASFOLLOWS: 50 % co- funding (About UGX, 125 million per bridge) by durable structures for rural communities prompted the introduction of stone masonry arch bridges. The bridge is strong and yet easy to construct. Most of the materials

used are readily available in most parts of the country. Participants are given the skills on how to design and construct stone masonry of the course content are outlined in the MELTC course manual which can arch bridges. The arch bridge is a cheaper alternative to concrete reinforced bridges and vet it requires simple skills to be constructed. TRAINING METHODOLOGY training and field training at the training model road. The second stage comprises execution sessions, exercises, case studies, discussions, Low cost seal road works in Soroti Municipality provision of outreach training and support

Arch Bridge

facilitates transfer of knowledge and skills in the workplace. These highly interactive training methods give participating trainees the opportunity to share a wide range of experiences. The Ministry of Work and Transport management which MELTC has incorporated as one of the modules in the to a group of districts. courses offered to district technical staff.

TARGET GROUP The training programmes at MELTC are designed for: Technical and non-technical officers from Ministres and Deirst Local Governments such as District Engineers and Hennicals, Labour, Gender, Governments such as District Engineers and Hennicals, Labour, Gender, maintenance, introducing basic Principal of routine road maintenance. Community and Environment Officers as well as policy makers. The details

## DISTRICT TECHNICAL STAFF TRAINING

be obtained on request

Labour-based Contract Management for District Engineers. This course is intended to develop the Engineer's knowledge, skills and attitude needed to mobilize human and local resources for the rehabilitation and maintenance Training at the centre is conducted in two stages. The first stage comprises class room of infrastructure in a manner responsive to the concerns of environment. gender, labour, health and safety including HIV/AIDS among other aspect for a sustainable development.

of a trial contract in the districts. Courses at MELTC are in modular form with a learning equips technicians and Supervisors in the road construction industry with RELTC are in modular form with a learning equips technicians and Supervisors in the road construction industry with centred approach. The training methods employed range from interactive classroom Engineers: prepare contract documents, identify projects and make use of appropriate technology choice to be used, monitor, evaluate and report sessions, calculases, casa solutiones, lacessatis, appropriate termology choice to de user, monitor, evaluate and report short workshops, seminars and aradical program of the training model contract Management for Road Inspectors/ assistant Engineering Officiers road and during trait contracts. MELTC also Since Road Inspectors are responsible for the day-to-day inspection of the organises and facilitates study tours, field excursions and attachments for enriching attitude in managing productivities, quality control, daily work planning, trainees with ideas through exposure. The compliance to gender and safety, environmental concerns among others.

Non-technical courses, workshops and seminars gaining familiarity, knowledge and skills in RRM contracting, etc Infrastructure development calls for participation and Non-governmental organisations MELTC helps in the training of Engineers transparency of the persons involved in the planning and technicians from non-governmental organisations involved in road and implementation of road works at all levels from the works and other innovative designs. social, economic and environmental perspectives. This course is intended to enlighten the non-technical district International Training courses for Engineers and Supervisors: Mos developing countries are widely adopting employment intensive methods

staff and politicians on their roles and responsibilities; impart necessary skills and discuss the mechanisms of and other innovations to address the problem of unemployment and their participation to ensure that environment, gender, labour, human rights, health and workplace safety poverty for sustainable development. The use of labour-based methods for infrastructure development requires specialized skills, knowledge and issues are addressed in the overall road improvement attitude that are not common. MELTC has the capacity to provide these and maintenance period. All these are aimed at requirements. It has adequate capacity in terms of resources, personnel providing an enabling environment for sustainable and physical facilities to conduct international courses for Engineers and infrastructure development and maintenance.

## CONTRACTING FIRMS

Managing Directors The contract managers are works terminologies, operations and their sequences. construction materials and their correct handling

interactive laming interious give partopaning tames interoperating tames and opportunity to processes opportene source in asses when neuroses the interactive source ourseal support interactiv

Supervisors in close collaboration with ILO. Community Access Innovations (CaRS) 1) MELTC helps in the training of Engineers and technicians both from public and private organisations in enlightened on the potential benefits of labour based innovative design like footbridges and footsteps on non-motorised access technology and to identify LBRW resources and aimed at improving connectivity between isolated communities. 2) Model operations for a sustainable contracting business. Road practical training. To strengthen the trainee's understanding and Forepersons and assistant Forepersons: The site application of the appropriate technology the Centre operates a training Supervisors are the key contractor personnal MELTC model-training road that is usually within its proximity. The site is particularly important for training in effective work organisation. It also helps to mentor the trainee on the real world site conditions as it covers a wide range of activities that the trainees are expected to encounter in the field. 3) Tria procedures, application of the appropriate labour based work methods, contract outreach support; MELTC provides outreach support services to

the set standards by the Ministry of Works and Transport. The Centre at this stage evaluates the trainees with other independent assessors being

