

ARMENIA: Design for Rehabilitation of Drainage Systems of Ararat Valley

In February 2009 GITEC, as leader of the consortium, has been entrusted with the consulting services for pre-design (study), final design and designer's supervision for rehabilitation of the drainage system at a planned investment of 16 Mill. US \$ in Ararat Valley, Armenia. GITEC started a promising business relationship with the Millennium Challenge Account (MCA), by signing the first consulting contract between MCA and GITEC.



Signing the contract: Mr. Ara Hovsepyan, CEO MCA-Armenia (right) and Dr. W. Jendrischewski, Head of GITEC Water Supply and Sanitary Engineering Department

The rehabilitation of the drainage system in the Ararat Valley is part of the "Irrigated Agriculture Project" under the wider five-year "Programme of Strategic Investments in Irrigation and Rural Roads Network in Armenia", financed by the Millennium Challenge Corporation (MCC), and it is aimed at increasing the agricultural production by up to 50% in the poor rural areas of the country. The overall responsibility for supervision of the implementation and financial control of the project rests with the MCA – Armenia.

The drainage system in the Ararat Valley covers an area of about 32,000 ha and comprises a total length of surface drainage network of 876 km and sub-surface drainage systems of 670 km. Both, the surface and the subsurface drainage systems are deteriorated mainly due to deferred maintenance and provide insufficient drainage in areas of high ground water levels because of excessively high water levels in the surface drainage system, blockage of most of the sub-surface system and defunct pumping stations.

The study and design services have started in March 2009 by a project team of 17 German and Armenian experts led by Dipl.-Ing. W. Stenzel and will comprise the following:

- Determination of drainage inflows from irrigation, precipitation and artesian ground water, determination of targeted drain water levels and hydraulic modelling of the main drains system and re-design of drain profiles,
- Investigation into alternatives of drainage by gravity or pumping stations,
- Design for rehabilitation or reconstruction of drainage pumping stations, drainage structures, road and railway bridges,
- Programme for repair of the sub-surface drainage system or alternative replacement by open drains,
- Design of rehabilitation of the system of hundreds of vertical drainage and artesian wells,

- Design of substitute irrigation facilities for present irrigation from blocked drains,
- Preparation of Bill of Quantities, technical specifications and cost estimates for the proposed works,
- Agro-economic survey for determination of project benefits and economic analyses,
- Assessment of the environmental and social implications of the project,
- Proposal for a functioning system for Operation and Maintenance of the drainage scheme.

The services for preliminary and final design are scheduled for completion in three phases until September 2010. Designer's supervision will commence in April 2010 and is scheduled end with the completion of the rehabilitation works in September 2011.



Pressure pipeline in project area

INDONESIA: Sustainability in Health Services and Peace-Building Process (NAD Province)

The Nangroe Aceh Darussalam (NAD) Province in the north-west of Indonesia has been a conflict zone for decades before the tsunami hit the archipelago in December 2004. Enduring conflict has left its clear mark in the poor conditions of health facilities and human resources for health services.

Since November 2006, GITEC has been the lead consultant within an international association in managing the construction

and rehabilitation works for 138 health facilities: 1 Doctor House, 2 District Health Offices, 30 Health Centres (“Puskesmas”) and 105 Village Health Posts (“Pustus” and “Posyandus”).

Together with its partners, GITEC strengthened the social mobilisation of the communities, health information management and proactive maintenance capacities. Further follow-up of the

sustainability initiative will allow fostering the commitment for environmental safety and the ownership for an efficient referral system with special regards to Mother-and-Child Health.

Further investment in improving health services and in human resources development in NAD Provinces can also be seen as a certain contribution to the further peace keeping of the region.



Three health facilities in the project area

PR CHINA: Poverty Alleviation Programme (PAP) Hunan Province

Following a public tender, the Hunan Province Poverty Alleviation and Development Office (PADO) contracted a German consortium in which GITEC

takes the lead to provide consulting services for the implementation of the Hunan Poverty Alleviation Program. The Program aims to improve food security,

rural incomes, water supply for domestic and agricultural use, and better road access to remote villages. The Program has a distinct pro-poor and gender focus and emphasizes the active involvement of the poorer strata, women and other vulnerable groups in program implementation. Sustainability of individual measures shall be assured by the conditional formation of beneficiary user groups for operation, maintenance and repair.

The Program includes Fenghuang County in the west of Hunan, and Pingjiang County, in the north-east of the province. Both are classified as poverty counties and food deficit areas and the areas selected for intervention comprise some of the poorest townships in the counties.

The Program is co-financed by German Financial Cooperation / KfW. The Inception Phase started in April 2009 with the deployment of the Chief Technical Advisor (CTA) T. Zachernuk, the Deputy CTA Zhou XueJun and the Headoffice Project Director P. Keil-Bruder. The Program will be implemented over a five year period until March 2014. Full but intermittent technical assistance will be deployed as of June 2009.



Damsite in Fenghuang County

PR CHINA: Sustainable Development of Disadvantaged Areas Yunnan Province

The Sustainable Development of Disadvantaged Areas Project in Yunnan Province is a sister project to the PAP Hunan although both projects are distinctly separate from each other concerning funding, implementation responsibilities, duration, and allocation of consulting services. The relationship is that both projects are similar in nature and focus and that the technical assistance is provided by the same Consultant to maximize synergy effects between and across the projects.

County, Diqing Tibetan Autonomous Prefecture in north-western Yunnan Province.

The project involves a large number of relatively small individual sub-project activities, often spread out over a very large area. These include small scale rain-water tanks for irrigation or drinking water (up to 1,500 units) piped water supply in Shangri-la (up to 110 installations), extension of irrigation systems and check-dams for

Project Executing Agencies (PEA) are the Yunnan Finance and Agriculture Departments. The Project is co-financed by German Financial Cooperation / KfW. Start-up operations were initiated in May 2009 with the deployment of the Chief Technical Advisor (CTA) T. Zachernuk, the Deputy CTA Zhou XueJun and the Head-office Project Director P. Keil-Bruder. The Project will be implemented over a four year period until April 2013. Full but intermittent technical



Tibetan beneficiaries in Shangri-La



Rainwater collection tank

The project purpose in Yunnan is to help alleviate poverty primarily by improvement of rural infrastructure in selected villages of the counties Huize, Xuanwei of Qujing Prefecture near Kunming and in Shangri-La

gully control (up to 440 units). As in Hunan, the Project has a distinct pro-poor and gender focus. Moreover, it emphasizes the active involvement of minority groups in project implementation.

assistance will be deployed as of June-July 2009 to assist the PEA with project implementation.

ZAMBIA: Rural Transport for Poverty Reduction in the Southern Province of Zambia (Feeder Roads)

In the frame of financial co-operation between Germany and Zambia, the two Governments agreed to support Zambia's National Poverty Reduction and Development Strategy through a financial co-operation programme to improve the accessibility of rural areas in the Southern Province.

GITEC was entrusted end of February 2009 with the consulting services for Component 1, i.e. Improvement of Rural Roads (Road Rehabilitation Programme). Based on a participatory priority ranking of the poverty relevant rural road network, the available financing and equity considerations between the districts, a ranking of roads scheduled for full rehabilitation, partial rehabilitation and accessibility measures has been agreed.

A total of about 1,640 km of rural roads (34 project roads) in all 10 Districts of the Southern Province are foreseen to be improved; about 1,090 km should be rehabilitated in full length or in sections and about 550 km should receive spot improvement measures to improve accessibility. The pre-phase, phase 1 and phase 2 cover 40 months from March 2009. Through a socio-economic monitoring the effects of this road rehabilitation programme in support of poverty reduction should be monitored regularly and documented.

The project will be managed by one long-term international expert, some short-term international experts (environmentalist, socio-economist) and local experts.



Road assessment in the field

LAOS PDR: Government Labour Medal Class III for Mr. A. Oberländer

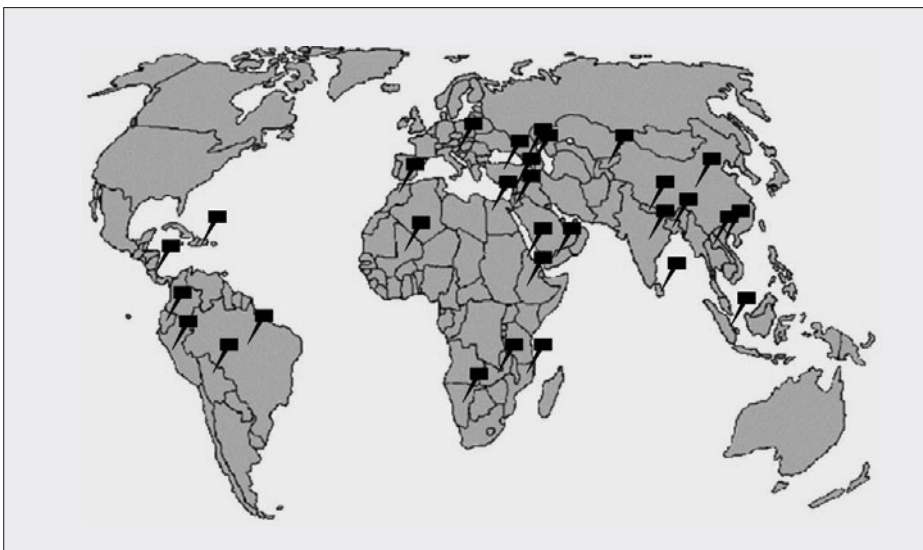
On the occasion of the Handover Ceremony for National Road No. 6 in Houaphan Province attended by the honourable Minister of Ministry of Public Works and Transport (MPWT) on 28th March 2009, the Managing Director and Director of GITEC Transportation and Construction Department has been awarded with the Government Labour Medal Level III signed by the President of Lao PDR for his contributions to the development of the country during the last 15 years. This award is the highest award a



civil individual can obtain from the Government of Lao PDR and a token of highest appreciation of an exemplary and dedicated co-operation between Mr. A. Oberländer and honourable Minister and MPWT staff.

Mr. Oberländer receives the medal by Dr. Phankham Viphavanh, Governor of Houaphan Province, Laos PDR.

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- Highways and Rural Roads
- Road Construction and Maintenance Management
- Urban Development and Infrastructure
- Housing Area Development
- Social Infrastructure Facilities

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- Health System Development
- Prevention and Health Promotion
- Health Services
- Reproductive Health
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