



ASSESSMENT REPORT

Rehabilitation and Construction of Water Supply Systems in Tusheti Region

Context & Background

ACF proposed to support Fauna and Flora International (FFI) and NACRES with the implementation of the rehabilitation and construction of water supply systems for villages in Tusheti region, Georgia. Following a community mobilization process supported by FFI and NACRES, the local community members of villages in Tusheti had identified infrastructure problems within their communities that handicap the socio-economic development of the region.

A key problem in the region is that many of the village water supply systems have fallen into disrepair or require new construction. At a community mobilization meeting held on the 26th May 2011 in Alvani, 16 representatives from the region performed an exercise to rank each village in the region by specific criteria to determine which villages required greatest support with rehabilitation of the water supply system. From this process the community determined that the following villages were in greatest need for support

No	Village	Final rating	No	Village	Final rating
1.	Dano	47.5	2.	Chesho	47
3.	Baso	47	4.	Begela	46
5.	Parsma	45.5	6.	Khakhabo	44.5
7.	Dartlo	44	8.	Vestomta	41.5
9.	Shenako ¹	41	10	Jvelurta	39
11.	Chala	38.5			

¹ The top 11 villages included Shenako, but since the government is going to supply water in this village and it already has estimated budget, the engineer did not have to visit Shenako

Proposed Assessment Methodology and Outputs

ACF had proposed to FFI / NACRES to assess a minimum of five of the villages listed above in the order in which they had been ranked. It was planned that the ACF engineer would spend up to 12 days in Tusheti to perform this assessment and would be assisted by a community liaison officer (organized by FFI and NACRES) to deal with all non-technical issues related to the assessment.

It was agreed that from this assessment the following outputs would be produced.

1. Bill of quantities and sketch of works for each of the assessed villages (translated into English language)
2. Approximate cost for each sub-project
3. Report on proposed methodology for phase 2

Assessment Implementation

The ACF engineer travelled up to Omalo in Tusheti on the 22nd June and remained in the region until 27th June. During this time he was able to assess the water situation in eight villages. These were:

- Dano (priority no. 1)
- Chesho (2)
- Baso (3)
- Begela (4)
- Parsma (5)
- Dartlo (7)
- Vestomta (8)
- Chala (11)

The engineer was able to visit and assess two villages per day, so the time spent in the region was only 6 days, as opposed to the 12 days proposed. From this visit the engineer has been able to produce a bill of quantities with cost estimations for the rehabilitation work in each location and a simple sketch and description of the proposed works. These Bill of Quantities and Sketches have been subsequently translated into English and are attached as **Annex 1** to this report.

From this bill of quantities and cost estimations, FFI and NACRES will be able to decide which sub-projects in which villages are to be implemented.

Proposed Methodology for Phase 2

- i. Timeframe:

Following the assessment ACF feels that a three-month time period is necessary for the rehabilitation of the water systems. Naturally this timeframe may be reduced if the number of systems to be rehabilitated is low. ACF plans to implement the sub-projects simultaneously, but would stagger the implementation of the

works to be able to provide adequate supervision and ensure that the specialists (see below) can perform all their necessary works. All works would have to be completed by October 15th at the latest to avoid disruption from the winter season.

ii. Human Resources and contracting:

ACF proposes to employ a local engineer (with vehicle) who will be responsible for daily site supervision of the works. This engineer will be supervised and managed by an ACF engineer who will make regular visits the region.

A small team of 4 specialists (specifically for water pipe connections and concrete work) will be employed on a service contract and will be able to work on two sites at the same time. These specialists will be supported by a local team of laborers who will be responsible for digging trenches and other manual work. The costs for the specialist team and laborers are included within the cost estimations. These costs could be reduced if there was a community contribution of free labour, but ACF would request FFI and NACRES support in mobilizing the community to provide these services. Many of the residents will be involved in agricultural and business activities during this summer season, so therefore may not be able to provide the labour contribution to the sub-projects. Given the short timeframe for the projects it is important that there are no delays in implementation caused by a shortage in the labour force.

In addition ACF would also employ a driver (with vehicle) to support the visits of the ACF engineer to the region and a logistician to oversee procurement and transport of materials. It is not proposed that any building company will be contracted to perform construction works

iii. Procurement and transportation of materials

It is anticipated that all materials for the sub-projects will have to be procured from Telavi or Tbilisi. Cement, sand and reinforcement bars will most probably be procured in Telavi but water pipes will be procured in Tbilisi. All procurement will follow ACF's standard procurement procedures.

ACF will hire the services of local transportation companies to transport these materials from Telavi and Tbilisi to the target villages in Tusheti. The large distances involved means that the cost of this transport is quite expensive. Further costs will be incurred transporting these materials to the construction sites, which will also require the movement of materials by horse. These costs have been estimated within the bill of quantities.

iv. Other costs

In addition to the cost estimation provided within the bill of quantities, ACF will require other operational costs to be able to successfully implement the sub-projects. These costs would include part payment for salary of engineers (ACF and local), logistician and other potential support staff, per diems, accommodation in Tusheti, fuel costs, communication costs and stationery. This budget can be submitted upon request.