







DAHANI SHOL LANDSLIDE HOW TO TRASFORM A DISASTER IN A RESOURCE



REDUCTION OF LAND DEGRADATION AND PREVENTION OF DESERTIFICATION THROUGH THE DEVELOPMENT OF NATURAL RESOURCES MANAGEMNT IN TAJIKISTAN

Project funded by European Commission



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra and



December 2012 REACT Meeting - CESVI



2

Disaster risk reduction (prevention and mitigation) in Dahani Shol

• Target Locations: Khovaling, Khatlon Region Jamoat: Sariosiyob, Village: Dahani Shol





Disaster risk reduction (prevention and mitigation) in Dahani Shol

- Target Locations: Khovaling, Khatlon
- Implementing Agency –
- Amount of funding: Project cost 49840 USD

EU - CESVI
UE Project 220-558SDCWFP - F4WBeneficiaries
contribution9258 USD20381 USD3450 USD16750 USD19%41%7%34%

In-kind Beneficiaries contribution: 16750 USD (34%)

Duration: 4 months (start 10th September 2012) Project partners: Khovaling Khukumat & Dahani

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•The pre-intervention situation

8th of May 2012: a 21,000 m³ landslide of stones and debris dammed a water course 800 meters before confluence with the Obi Mazar river and created a lake about 1,500 meters long and holding 200,000 m³ of water.





Landslide





Obi-Mazar



There was the risk collapse of the "dam" due to surface erosion with risk of flood of 200,000 m³ of water.

Possible damage from flooding :

•Shelter: 8 households in Dahani Shol; 6 households in Takijar; 13 households in Lohuti

•Infrastructures: 1,200 meters of road, the Lohuti bridge on the main road to Dushanbe

•Possible damages to agriculture: 12 hectare of grain crops, 4 hectare of orchards, 3 hectare of vegetable gardens

Objectives – Disaster Risk Reduction

• 1. Stabilization of landslide body



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<u>Outcomes</u>

- a. Landslide body is consolidate and shaped
- **b.** Creation of overflow channel for maintain constant the water level in the lake
- a permanent by-pass canal with pipe
- a sandbag coated channel ending with vegetated gabions (on the top of bypass)
- a Permanent concrete channel for overflow
- c. Three Springs catchment: drain the spring water excess and make the landslide body stable.









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Water

Pipe 150 mm diameter 125 m long

Concrete junctions and Covered with ground





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On top of the bypass Sandbag coated channel (area 3.6 m²)

ending with vegetated gabions









Fundation and Intake

Concrete channel



Area 1.24 m²





Objectives and Outcomes Objectives – Disaster Risk Reduction



c. Three Springs catchment: drain the spring water excess and make the landslide body stable.





Objectives – Disaster Risk Reduction

- 1. Stabilization of landslide body
- 2. Stabilization of mountain side

Outcomes

d. Landslide prevention interventions like brush layering, contour line fascines, palisades, gully plugging and others bioengineering applications.



17th October



12th November

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BIO-ENGINEERING ACTIVITIES





Objectives – Disaster Risk Reduction

- 1. Stabilization of landslide body
- 2. Stabilization of mountain side
- **3. Increasing of awareness and capability of the population** in disaster risk prevention

<u>Outcomes</u>

- **d.** Landslide prevention intervention like brush layering, contour line fascines, palisades, gully plugging and others bioengineering applications.
- e. The population is involved in the activities and aware thanks to meeting and training on natural recourse management, tree propagation and bioengineering technology
- **f. Distribution of leaflets** on landslide stabilization and re-vegetation techniques



The trainings to our ladies







Lessons Learned

- The food for work norms provided by WFP are low for the population involved! – only women/old man accept to work for the foreseen quantity of food.
- Define well the ownership of the intervention area in order to don't face the greediness of subject don't involved in the realization of the intervention.











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Thanks for your

attention



