

Project Summary

Location:

District: Kohistan
District Center: Paspol
 N: 37 28 628
 E: 070 35 143
 Elevation: 2,281 masl

Supply Area:

Water Source:

Kondi rogh River; minimum flow > 2 m³/s

Accessibility: via off road in during 8 months only Distance to Faizabad: 70km

Technical Description:

The run-off the river project comprises of a 100 m wide weir of 1 m height. The water is conveyed via a 2 km long headrace canal to the forebay. With a gross head of 20 m and a nominal discharge of 2m³/s the capacity is about 350 KW. Currently only 170 kW are required
 The power is transmitted via a 15 km long 20 kV transmission line and distributed via a 0.4 kV network. Houses are connected via service cable and equipped with electronic meter and RCBOs.

Socio-Economy

- Number of population: 10,100
- Number of households: 2,240 (4.5 persons/household)
- Number of houses: 680 (3,3 households per house)

The Bazaar is located in the center of district and comprises of 200 shops, 18 Mosques, 1 schools, 6 offices, 2 government buildings, 1 health facilities (hospital and clinic), 2 veterinary clinics, and a number of workshops.

Area Supplied

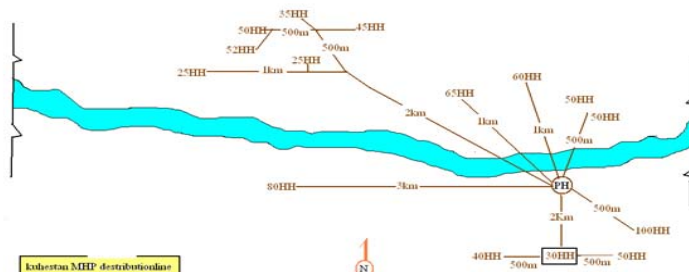
The following villages/hamlets will be connected to the supply system:
 Shoe bala chemateka Tor chood, Barkham
 Bazare woloswalee, Jeghringae payon

Environmental Aspects

The Kondi rogh river is perennial. A fish pass is required to allow fish migration.

The project will have no negative impact to houses, land and irrigation.

Principal Lay-Out



Afghanistan

Kohistan

Hydropower Project

Site Reconnaissance

Project Name

Rural Electrification Concept
 Badakhshan Province

Number of people supplied

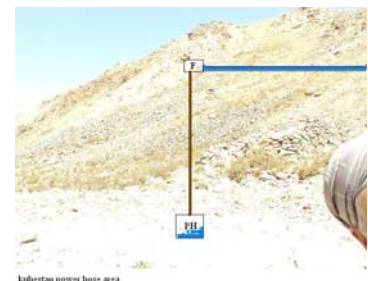
10,100 plus Bazaar

Estimated Costs

1.9 mill US\$; 7,500 US\$/kW; 186 US\$/person

Technical Details

Turbine capacity	250 kW
Rated head	20m
Rated flow	1.5 m ³ /s
Turbine type	Francis
Planning and construction time	2 years



Kohistan power base area

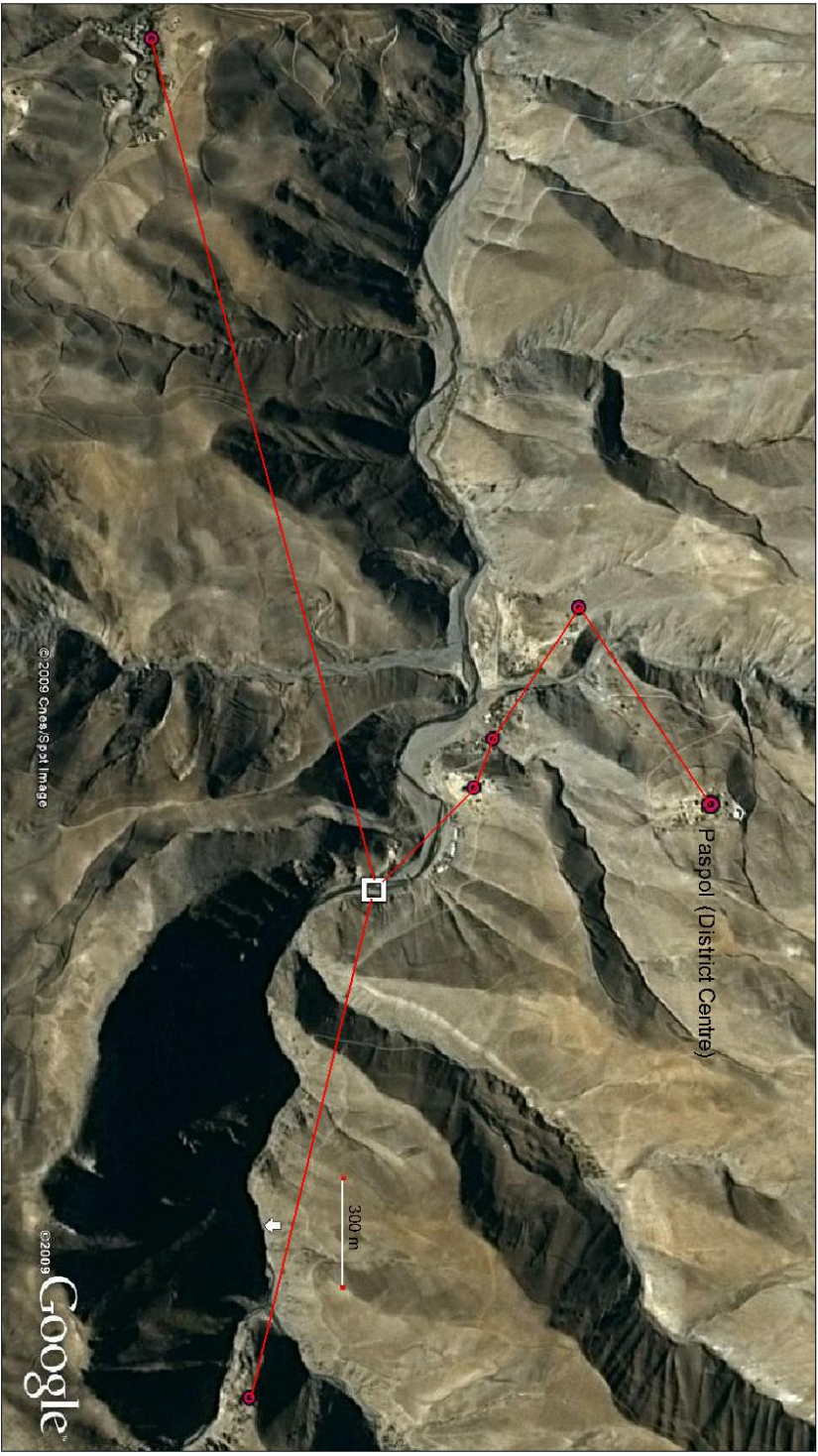
Survey implemented by:



Department of Water Management

For the Energy Working Group
 under the PDC in Badakhshan

October 2009



Legends

- Load Centres
- Power House
- ↕ Intake
- Transmission line

Scale: As Shown

Renewable Energy Supply for Rural Areas (ESRA)	
Rural Electrification Concept, Boddishan Province	
Kohistan Hydropower Project	Step Page
Google Image of the Project Area	DRAWING no.
Aerial View	INTEGRATION
	waterfall & energy
	development - control
	2008.08