

Project Summary

Location:

District: Ishkashem

District Center: Ishkashem

N 36 49 096

E 071 35 265

Elevation: 2,813 masl

Supply Area: Qazeede

Water Source:

Qazeede River; minimum flow > 1.79 m³/s

Accessibility: good via off road throughout the year; distance to Faizabad: 170 km

Technical Description:

The run-off the river project comprises of a 27.6 m wide weir of 3 m height. The water is conveyed via a 1.62 km long headrace canal to the forebay. With a gross head of 20,2 m and a nominal discharge of 1,8 m³/s the capacity is about 213 kW.

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.

Possible connection of the district center would require a 23 km long transmission line. However, capacity is not sufficient for district center.

Socio-Economy

- Number of population: 1,260
- Number of households: 210 (6 persons per household)
- Number of houses: 175 (1.2 households per house)

Almost no productive use

Area Supplied

The following villages/hamlets will be connected to the supply system: Qazeede 1 and 2

Environmental Aspects

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

The project will have no negative impact to houses, land and irrigation. During summer 0.5m³/s of water will be used for irrigation.

Principal Lay-Out



Afghanistan

Ishkashem

Hydropower Project

Site Reconnaissance

Project Name

Rural Electrification Concept
Badakhshan Province

Number of people supplied

1,260

Estimated Costs

1.9 mill US\$; 8,920 US\$/kW; 1,507 US\$/person

Technical Details

Turbine capacity	213 kW
Rated head	20.2m
Rated flow	1.8 m ³ /s
Turbine type	Francis
Planning and Construction time	18 month



Survey implemented by:



For the Energy Working Group
under the PDC in Badakhshan
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Legends

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

Scale: As Shown

Renewable Energy Supply for Rural Areas (ESRA)			
Rural Electrification Concept, Boddishan Province			
Qazseada Hydropower Project		Step	Page
Google Image of the Project Area		Drawing no.	DRWG
Aerial View		INTEGRATION <small>Infrastructure & Energy</small> <small>Development - 2010-2015</small>	