Project Summary

Project Background
The northern areas of Pakistan, especially the rural communities in Khyber Pakhtunkhwa (KPK) have a low rate of electrification and therefore face immense obstacles to social and commercial development of the people living in these regions. However, there is immense potential for development of hydropower based energy projects. The Sarhad Rural Support Programme is implementing several mini and micro hydropower projects in the region. The project deals with supply and installation of electro mechanical instruments (2 Turbo Generating sets of 500 kW each) for a mini hydro power plant in Ashuran, Swat.

Project Objectives
The overall objective of the project is to provide services for the supply, installation and commissioning of the Turbo Generating (TG) sets. The consultant will provide technical assistance in accordance with international best practices and standards required and train the local staff in O&M procedures and other issues. Additionally, the services include test running of TG sets to ensure safe and efficient operation of the power project.

Tasks:
The project is intended to be implemented as supply, installation and commissioning of E&M equipment. INTEGRATION’s role is the provision of technical support and consulting services.

Project Results
The power house with a total output of 1.5 MW will supply the people in the target area with 24/7 sustainable electric power of high quality. It is also foreseen to train the local staff in O&M after completion and commissioning of the hydropower projects. Furthermore, specifications and best practices guidelines are to be drafted to support the implementation of future projects in the region.

Services Provided
• Provision of support in import procedures and taxes, duties, insurance and other issues
• Verification of technical drawings and other required documentation
• Provision of technical know-how and support in import and supply of Turbo Generating (TG) sets for the respective power plants
• Technical assistance in installation and commissioning of the TG sets as per the specifications
• Support in test running of the TG sets
• Supply and installation of protective instruments and their calibrations as per the technical specifications
• Identification and documentation of services to be provided
• Preparation of best practices guidelines
• Training of staff for sustainable operation of the plants.

Pakistan
Supply and installation of Electro Mechanical equipment at Mini Hydropower Project Ashuran

Client
Sarhad Rural Support Programme (SRSP)

Duration
07/03/2014 - 31/05/2017

Personnel
• 1 international STE (1 PM, Electrical Expert)
• 1 international STE (1 PM, Mechanical Expert)
• Pool of national STE (6 PM, Technicians)