The northern areas of Pakistan, especially the communities in Gilgit-Baltistan (GB), have an exceptionally low rate of electrification and therefore limited opportunities for development. However, there is immense potential for development of hydropower based energy projects. The Water & Power department of GB has initiated several mini and micro hydropower projects in the region. As part of this initiative, several projects are under construction. This project deals with the supply, fixing and test running of 2x750 kW Turbo Generator (TG) sets.

The overall objective of the project is to provide services for the supply, installation and commissioning of the TG sets. The consultant will provide technical assistance in accordance with international best practices and standards required. Additionally, the services include test running of TG sets to ensure safe and efficient operation of the power project.

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.

The power house with a total capacity of 1.5 MW will supply the people in the target region 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 turnkey projects in the region.

- 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 on projects being implemented on turnkey basis
- Preparation of best practices guidelines
- Training of staff for sustainable operation of the plants.