Project Summary

Project Background
During bilateral government negotiations between Pakistan and Germany a grant has been committed (in total EUR 16.55 million) for physical infrastructure investments in Khyber Pakhtunkhwa.

Project Objectives
The overall objective of the Project is to contribute to the improvement of the general living conditions and quality of life of the poor in Khyber Pakhtunkhwa. The specific Project objectives are:

- increased access to energy for communities in Khyber Pakhtunkhwa;
- reduction in the use of fuel wood as an energy source for the communities;
- increased employment and income opportunities, especially for the poor, through the promotion of productive usage of the population in the decision making at the local level.

The target group of the Project is the population in the selected Project districts in Khyber Pakhtunkhwa with a special focus on the poor.

Project Results
The Project supports the supply of poor communities with renewable energy using two different technologies. Depending on the situation regarding natural potential of renewable energy, funds will be provided for the following project components:

1. Micro- or mini-hydropower plants (MHP);
2. Solar street/home lighting systems;

The hydropower-based supply includes completion of 5 MHPs with capacities ranging from 36 to 306 kW.

The PV based power supply aspect of the project includes:

- About 1,200 households in 96 villages are supplied by sustainable PV based village electricity supply systems;
- Systems are operated by trained operators;
- Management system including fee collection system introduced and established.

For its community managed model of Mini-Grid Systems, the project has received the prestigious Energy Institute (EI) award under the category for “community initiative” in 2018. Furthermore, the project has also been nominated for the Alliance for Rural Electrification (ARE) Award 2018 under “Best Off-Grid Project” category.

Services Provided
(1) Technical tasks
- Detailed engineering studies for 96 PV based village electricity supply systems
- Hydrological studies, supervision of civil works, E&M setup and installation
- support in implementation of EPC procedures based on FIDIC framework
- Assist PPAF in compiling a full set of technical specifications for the different renewable energy technologies and negotiate contracts with suppliers;
- Assist PPAF in updating or newly elaborating technical handbooks for each of the technologies specified above;
- Support the Partner Organisations (POs) in identifying appropriate project sites, planning the measures for each site and adapting the technologies to the site-specific circumstances;
- Assist PPAF in optimising the operation and maintenance concepts for the technologies incl. development of user manuals and appropriate training modules for community organisations;
- Provide associated skills training for members of POs and PPAF.

(2) Management Assistance and Coordination
- Assist PPAF and POs in project management and coordination;
- Strengthening the capacity of POs and local communities to establish participatory mechanisms for community-driven approaches and to construct community based power supply systems;
- Mobilization and capacity building of the community organizations.

(3) Monitoring and Evaluation (M&E)
- Regular Project performance auditing & review assignments;
- Outcome and impact monitoring together with PPAF.

(4) Specialist studies and reports
- Overall Project quality auditing/review assignments with proposals for adjustment and Project improvement in close coordination with PPAF;
- Reporting to KfW on the overall progress of the Project;
- Provision of Expert-pool for implementing improvements, providing specific identified services, skills etc. in close cooperation with PPAF.

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