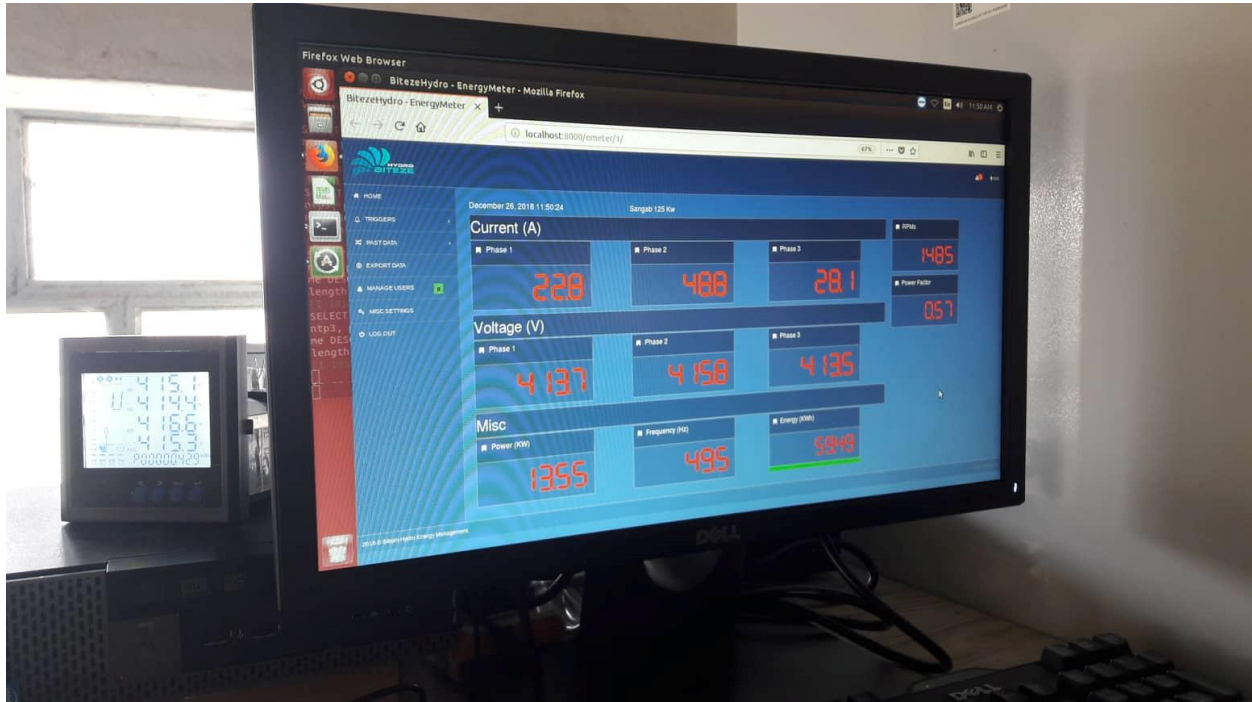# Afghanistan Energy Sector Improvement Program – AESIP

Brief Report on Installation of Data Logger in Jawzgoon 180 kW Mini Hydropower Station, Badakhshan Province

In December 26, 2018 GIZ-AESIP, in coordination with 'Da Afghanistan Brishna Shirkat' (DABS) Badakhshan office, installed "Micro Hydropower Data Logger" in Jawzgoon 180 kW mini hydropower plant, the power plant which was rehabilitated and upgraded by GIZ-ESRA, located in Old city; next to MHP O&M Training Center, Faizabad-Badakhshan.

The Hydropower Data Logger is a comprehensive smart solution for monitoring up to 10 power parameters e.g. current, voltage, frequency… etc. produced at micro/mini hydropower plant which can be exhibited on a single display screen inside power house or on any internet connected device; anytime and anywhere.

The system was installed by Ahmad Fahim "Fazel" the technical engineer of GIZ-AESIP in Badakhshan who received the system installation training in BITSYM Company in Islamabad-Pakistan in 5th September 2018.

Important to mention, this is the first time such a monitoring system is installed on a mini hydropower plant in Afghanistan.

Prior to installation of the system, a presentation was delivered to around 12 technical staff of DABS including the operational manager of DABS, manager of Jawzgoon MHP and some other operators from different MHPs in Badakhshan leading by DABS.

After the presentation, the system was jointly and practically installed with the attendees. Once the installation was completed, the MHP was again switched on and the participants observed that the system was successfully installed and turned on for the first time and they observed the MHP electric power parameters on the screen of Data Logger.

Subsequently, the participants understood how the system works, how to export daily, weekly, monthly and yearly data from the system to an excel sheet, how to set triggers for alarms/notifications, how to access the parameters graphs….and so on.

In the continuation, the system was connected to the internet and through TeamViewer the Data Logger was synced to the personal mobile and the participants experimented how to access the system and how to remotely monitor it through their mobiles/PCs when it is connected to internet.

Finally, the camera was installed and connected to the internet and the attendees observed and understood how to use the camera for remote monitoring of the power house, how to remotely turn the camera towards their desired directions, how to make audio/video calls through that and so on.