



### EnergizeNepal Project

- Model Turbine's accessories arrived at TTL after fabrication. Installation work is going on.
- The technical specifications from Mars Edpal Instruments Pvt. Ltd. for procurement of Electro mechanical Equipment are in progress

### Fransed Project

- Collection of sediment sample from Jhimruk hydropower.
- Drying of sediment sample and Sieve analysis.
- Improvement on guideline for the sediment analysis.

### Energize Nepal RNEP-II Project (Micro Francis)

- Compendium development in progress.
- A paper to conclude the need assessment in progress.
- Successful casting of 14kW Francis runner (3 rd attempt).
- Forged the casted blade of 14kW Francis runner (2 nd attempt).
- Machined hub and shroud of 14kW Francis runner (2 nd attempt).
- Preparation of work plan for Interaction meeting with NMHDA.

### Mai Beni Project

- Parametric design of bifurcation on progress. (*Nischal Pokharel*).
- Design of Expansion joints on progress. (*Amul Ghimire, Nischal Pokharel*).
- Design of tail race gate on progress. (*Amul Ghimire, Nischal Pokharel*).

### Lab Activities

- Successful testing of Turgo Turbine of PEEDA project and results analysis.
- Preparation work for CRHT-IX



### Lab Visits

- Visit of lower secondary students from Gyankunj Secondary School Banepa and Golden Future Secondary School, Panchkhal.
- Visit of team members from IRDP project, Korea.
- Mr. Surendra Shrestha, Associate professor from Western Sydney University, visited Lab.

### International visit from Lab

- Prof. Dr. Bhola Thapa visited Busan, Korea for attending "International Symposium on Hydro and Marine Renewable Energy". Prof. Thapa Presented on "Scaling up capacity of Nepalese turbine manufactures and review of associated challenges". (21<sup>st</sup> Feb, 2019).

### Progress of ENEP Students

- Development of Numerical Hill chart for reference and optimized design of Francis Turbine runner. *(By Ram Lama)*.
- Preparation of paper for CRHT-IX. *(By Ram Lama)*.
- Preparation of draft paper for CRHT-IX title on "Methodology to predict effects of leakage flow from guide vanes of Francis turbine ". *(By Saroj Gautam)*.
- Numerical simulation of existing system of Bhilangana HPP (8 MW). *(By Saroj Gautam)*.
- Numerical simulation of spiral casing with different cross-section. *(By Dadiram dahal)*.
- Design of test-rig for 14 kW Francis turbine). *(By Dadiram Dahal)*.
- Preparation of paper for CRHT-IX. *(By Dadiram Dahal)*