



EnergizeNepal Project

- Contract of "Existing Francis Turbine Test Rig Relocation" awarded to Megha Hydro and Engineering Pvt. Ltd.(3rd Oct, 2018)
- Fitting of Blind Flange in high pressure tank.(10th Oct,2018).
- Transportation of turbine accessories for modifications, at workshop of Megha Hydro and Engineering Pvt. Ltd. in Butwal, Nepal.(14th Oct, 2018).

FranSed Project

- Project kick-off meeting held at IIT Roorkee, India.(7th to 12th Oct 2018).

Lab Activities

- Call for Paper for CRHT-IX '19'.(20th Oct, 2018).
- Compilation and editing of documents for TTL yearly magazine, Anniversary 2018. (25th Oct,2018).
- Preparation of space for storing tools and equipment inside VFD room.
- Electrical wiring for controlling VFD pump.

Lab Visits

- Visit from Dibyashwori Hydropower Ltd, for discussing the possibility of minimizing the power loss in Sabha Khola Hydropower Project (4MW).(1st Oct,2018)
- Visit of three professionals from Robert Morris University (RMU) respectively:
 1. Prof. Dr. Engr. Sushil Acharya (Associate Provost for Research, Graduate Study, and International Programs)
 2. Sherri Aufman, Director of Graduate Admissions.
 3. Rick Aufman, RMU Alumuni.

The visit was mainly for discussing the possibility of joint research between both Universities (Oct 2, 2018).

- Visit of students and faculties from St. Xavier college for study purpose.(5th Oct, 2018).
- Combined team Visit from ICH, Norway and Hydro Lab, Nepal.(7th Oct,2018).
- Visit of Team from CE construction for the discussions on the possibility of TTL involvement in design of Hydro Mechanical components for Mai Beni project (9.51 MW).



International Visits from lab

- Prof. Bhola Thapa, Dr. Biraj Singh Thapa, Dr. Sailesh Chitrakar combined visited India for attending FranSed project's kickoff meeting with IIT-Roorkee and NTNU, Norway. (7th Oct 2018). The visit was also followed by another visit to Bhilangana Hydropower in which the hydropower has shown interest with TTL to provide support for conducting prototype testing of new design in that power plant. (7th - 12th Oct, 2018.)
- Mr. Rishabh Thapa an undergraduate student doing project at Turbine Testing Lab visited China and presented a paper at International Academic Forum and Sino-Nepal Cooperation Within Belt and Road Initiative held in Shijiazhuang, China.
The paper was presented under the following title: Prospect of Business of Hydraulic Turbine in Nepal under the theme: "Engineering and Technology cooperation for the development of economy of Nepal and bilateral business development. (12-14th Oct, 2018).

Workshop

- Prof. Bhola Thapa participated in workshop on "Sediment Management in Hydropower Development and Operation" in Nepal organized by International Centre for Hydropower (ICH), Norway and Hydro Lab, Nepal and presented paper on topic "Role of Turbine Testing Lab for overcoming the challenges related to hydropower development in Nepal." (3rd Oct, 2018).

Progress of ENEP Students

- Completion of numerical analysis of 92 kW Francis Turbine runner at BEP for different revolutions of runner for hill chart development. *(By Ram Lama)*.
- Development of python program for grid sensitivity calculation. *(By Saroj Gautam)*.
- Numerical study of 92 kW model Francis Turbine with mesh prepared at Wuhan University, China. *(By Saroj Gautam)*.
- Full turbine simulation of 14 kW Francis Turbine model with different lean angle. *(By Dadi Ram Dahal)*.
- Design and study of fixed guide vane for 14 kW Francis Turbine. *(By Dadiram Dahal)*
- Modelling and 3D printing of 14 kW Francis Turbine section for bronze casting of full turbine. *(By Dadiram Dahal)*.