



EnergizeNepal Project

- Opening of bidding documents of tenders for procurements of electro mechanical hydraulic components (Flow meters, Linear Actuators, Angle sensors, butterfly valve, wedge gate valve precision couplings.)
- Factory Follow up for work progress of Turbine accessories relocation at Megha Hydro and Engineering Pvt. Ltd. in Butwal, Nepal.
- Series of meetings with NTNU for reporting progress activities and consultation regarding drawings.

Fransed Project

- Sediment sample collections from headwork's of two under construction hydropower projects. I.e. Upper Sanjen HPP & Rasuwagadhi HPP (3rd Jan, 2019).
- Series of Meeting with NTNU for discussing project activity.
- Assigning of Work packages i.e WP₁ and WP₄ for New Recruited Researchers.
- Sieve analysis of sediments of Upper Sanjen Hydropower Project.

Energize Nepal RNEP-II Project (Micro Francis)

- Recruitment of a full-time Researcher. (1st Jan 2019).
- Updating of Project Schedule.
- Budget approval from Project Management Office.
- Data collection for Need assessment.

Mai Beni Project

- Design and Analysis of revised Headrace pipes and Penstock Pipes. (*Saroj Gautam & Nischal Pokharel*).
- Design modification of bifurcation according to available site conditions and preparation of small paper model of bifurcation from 2 D drawings. (*Nischal Pokharel*).
- Design and submission of reports and drawings for Under Sluice gate. (*Dadiram Dahal*).
- Design of Expansion joints on progress. (*Amul Ghimire, Nischal Pokharel*).
- Design of tail race gate on progress. (*Amul Ghimire, Nischal Pokharel*).



Lab Activities

- Successful operation of lab in close loop mode. (9th Jan, 2019)
- Participation of researchers in training conducted by GE hydro. (7th Jan – 11th Jan 2019)
- Participation of researchers from TTL in Himalayan Hydro expo (18th -20th Jan, 2019).
- LabVIEW program on progress for 3 GV test rig and Turgo Turbine rig.
- Cleaning of lower reservoir for grouting purpose in leakage part.

Lab Visits

- Visit of Mr. Jonathan Bedrossian and Marcio Pinheiro from GE Hydro. (Jan 9, 2019)
- Visit of Mr. Cristian Aedo and his team from World Bank. (16th Jan 2019)
- Visit of Wook Kwon from Komeri, Korea for discussion on joint collaboration in research work. (21, Jan 2019).

Progress of ENEP Students

- Steady State numerical simulation for preparation of hill chart of 92 kW Francis runner. *(By Ram Lama).*
- Numerical Simulation of existing guide vanes of Bhilangana HPP. *(By Saroj Gautam).*
- 3 D runner modelling of Bhilangana HPP. *(By Saroj Gautam).*
- Transient Numerical Simulations with 2mm & 4 mm clearance gap. *(By Saroj Gautam).*
- Full turbine simulation with Trapezoidal Spiral casing for 14 kW Francis Turbine. *(By Dadiram dahal).*
- Design of different types of spiral casing (square, circular and trapezoidal cross section). *(By Dadiram Dahal).*