



### EnergizeNepal Project

- Procurement of Blind Flange for pressure tanks. (19<sup>th</sup> Sep, 2018).
- Literature review of sensors and calibration part ongoing.
- Preparation of specifications lists for Flow meters, Angle sensor, Linear Actuator, Flow Control Valves for procurement.

### FranSed Project

- Project kick-off meeting date fixed for October(8-9),2018 at IIT Roorkee, India.

### Lab Activities

- Partition work for making workspace for all researchers and staffs.(3<sup>rd</sup> Sep, 2018)
- Cleaning and relocation all junk items in side lab and inside VFD room. (4<sup>th</sup> Sep 2018)
- Checking leakage in blind flange of High pressure tank , in pump pipe line and fitting of proper Gaskets to make leak proof.(5<sup>th</sup> September.)
- Successful Testing of VFD pump on open loop mode. (9<sup>th</sup> Sep, 2018.)
- Power connection and Furniture work completed in all work space from Inverter System( 21 Sep 2018.)
- Call for student academic project 2018. (25<sup>th</sup> Sep,2018).
- Proposal Writing for Energize Nepal Project III Phase.(26<sup>th</sup> Sep,2018.)
- Farewell Program Mr. Nirmal Acharya, for his further Study at NTNU, Norway.(26<sup>th</sup> Sep 2018.)

### Lab Visits

- Visit by Mr. Topaz Maitland, student at University of Bristol, UK for ongoing PEDDA project at TTL. (3<sup>rd</sup> Sep, 2018).
- Visit by Soniya Gill from GE Renewalbe Energy , India for discussion on possibility of conducting training program at Kathmandu University(27<sup>th</sup> Sep, 2018)



### International Visits from lab

- Prof. Hari Prasad Neopane and Dr. Sailesh Chitrakar participated in 29th IAHR conference on Hydraulic Machinery and Systems held in Kyoto, Japan to present papers. (16-21, September, 2018).

The papers were presented by with the following titles respectively:

- a) Role of Turbine Testing Lab for overcoming the challenges related to hydropower development in Nepal. (Prof. Hari Prasad Neopane)
- b) Numerical and experimental investigation of erosion induced leakage flow through guide vanes of Francis turbine. (Dr. Sailesh Chitrakar).

### Progress of ENEP Students

- 3D Modelling of Guide vanes for 11 GV opening angles completed. *(By Ram Lama)*.
- Hexa meshing for 11 GV models completed with ICEM. *(By Ram Lama)*.
- Numerical Validation of existing CFD. *(By Saroj Gautam)*
- Numerical prediction of transient pressure variation between rotor stator components. *(By Saroj Gautam)*.
- Comparison of CFD model prepared at TTL with that of Wuhan University, China. *(By Saroj Gautam)*.
- CFD simulation of Low head Francis turbine with spiral casing. *(By Dadi Ram Dahal)*.
- Study the feasibility of full body runner casting locally. *(By Dadi Ram Dahal)*.
- Detail drawing of the runner for microhydro of Dhamile Khola. *(By Dadiram Dahal)*