



Energize Nepal Project

- Half yearly progress report submitted to [Energize Nepal Program Office](#).
- Bid documents and tender finalization for the high and low pressure tanks to be installed at lab floor.
- Technical details for [VFD & motors](#) identified & communication established with Siemens & Kirloskar company for procurement.
- Processing with SKF, manufacturing company for the [Guide vane actuator system](#) in the test rig.
- Technical details for [Torque Transducer](#) finalized and tender process for the same on progress.
- Project schedule, Implementation Plan and Procurement Documents discussed, edited and finalized as per series of internal meetings and skype meetings with NTNU officials.

Visits & Workshop

- Dr. Hari Pd. Neopane, Member Secretary participated in [Erasmus plus](#) project management meeting at Innsbruck, Austria on 04- 10 February, 2017.
- Dr. Hari Pd. Neopane, Member Secretary participated on an international conference on [small hydropower development](#) planning for South Asian countries jointly organized by Nepal academy of Science & Technology (NAST) and Hangzhou Regional Centre for Small Hydropower (HRC) in Kathmandu on 28-29 March, 2017.

Lab Activities

- Printing of 1 kW [propeller turbine blade](#) for Nepal Yantrashala- Practical Action, Nepal as a commercial project.
- Quotation for RMIO board and control unit obtained from [ITT corporation](#) for existing VFD control in the lab
- Shaft modification with bearing block in the dismantled 92 kW Francis test rig.
- [Runner](#) and [head cover](#) clearance inspection.
- Final preparation for [CRHT-VII symposium](#) going to be held on 4th April, 2017.



Academic Activities of PhD Candidate

- Fabrication of **Plexi glass** part completed (at NTNU).
- Simulation of GV and runner at 11 opening angles conditions in progress.

Academic Activities of MS by Research Students

- Experiments on **3 GV setup** completed.
- Internal thesis defense conducted on 13th March, 2017 as per DoME schedule.
- Two MS by research students from the lab completed their **final thesis defense** on 30th March, 2017.

Academic Activities of ENEP Students

- **Proposal defense** of 1 PhD candidate and 1 MS by Research candidate conducted on 16th March, 2017 as per DoME schedule.
- Final proposal to be submitted to **Research Committee** as per comments underway.

Lab Visits

- Visit by Asst. Prof. Dr. Waessara Weerawat (Department of Industrial Engineering) and Asst. Prof. Dr. Chamras Promptmas (Department of Biomedical Engineering), **Mahidol University**, Thailand on 23rd March, 2017.
- Accompanied by Dean- SoE, Prof- DoME and other KU officials.

Publications

- Sailesh Chitrakar, Hari P. Neopane, Ole G. Dahlhaug, "*PIV investigation of the leakage flow through clearance gaps in cambered hydrofoils*", Journal of Fluids Engineering (ASME), 2017.
- Sailesh Chitrakar, Biraj S. Thapa, Hari P. Neopane, Ole G. Dahlhaug, "Numerical and experimental study of the leakage flow in guide vanes with different hydrofoils", Journal of Computational Design and Engineering (Elsevier), 2017.