



## **MONTHLY BULLETIN** *DECEMBER, 2014*

### **KETEP Project Summary**

- 3 years project starting from December 2014
- Total allocated budget for TTL : 6.6 million NPR, including 2.75 million NPR for the labor cost for 34 months
- Role of TTL in the Project
  - Design of a 5kW erosion friendly cross flow turbine and RDA for carrying out testing of the designed blades
  - Carrying out the testing of the turbine after manufacturing is done in Korea
  - RDA test for the runner blades
  - Design of the 20 kW cross flow turbine for a site in Nepal with the same principle
  - Testing of the turbine in the site after manufacturing and lab testing is done in Korea
  - Research related to coating and blade material by using RDA

### **AEPC project progress**

- Project extension for 90 days and contract for at least 1 month
- VFD + motor and data logger arrived

### **Master program in collaboration with Lund University, Sweden**

- The initial funding has been approved under Erasmus + or Tempus project
- The first meeting with delegates of the University will take place in mid-January 2015 in KU
- More information about similar program in previous years:  
<http://www.ebd.lth.se/english/education/master-programme-eebd/>

**Visit** by HE the ambassador of Finland Asko Luukainen at TTL on December 23<sup>rd</sup> to explore the possibilities of collaboration with KU



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### **Proposals under development**

- **RENK new call (Deadline 20<sup>th</sup> Jan 2015)**
  - Continuation of previously funded RENK projects (437 and 1095)
  - Design and Development of low head Francis turbines
  - Continuation of the Pelton turbine research activity
  - Wind and Solar hybrid technology
- **EnPe Masters+PhD 2015-2019 (Deadline Feb 2015)**
- **2 MS by research programs starting from February on**
  - Gravitational Vortex Turbines
  - Sediment erosion in Guide vanes

### **Bachelors project outputs for the first semester (Final presentation on 9<sup>th</sup> January)**

- Fabrication of wind turbine for wind tunnel testing
- RPT turbine testing
- Analytical vibrational model of RPT
- Aerodynamic design of wind turbine
- Hydraulic design of bifurcation

**Turbine Testing Lab**

**Wishes you all**

**HAPPY NEW YEAR 2015**