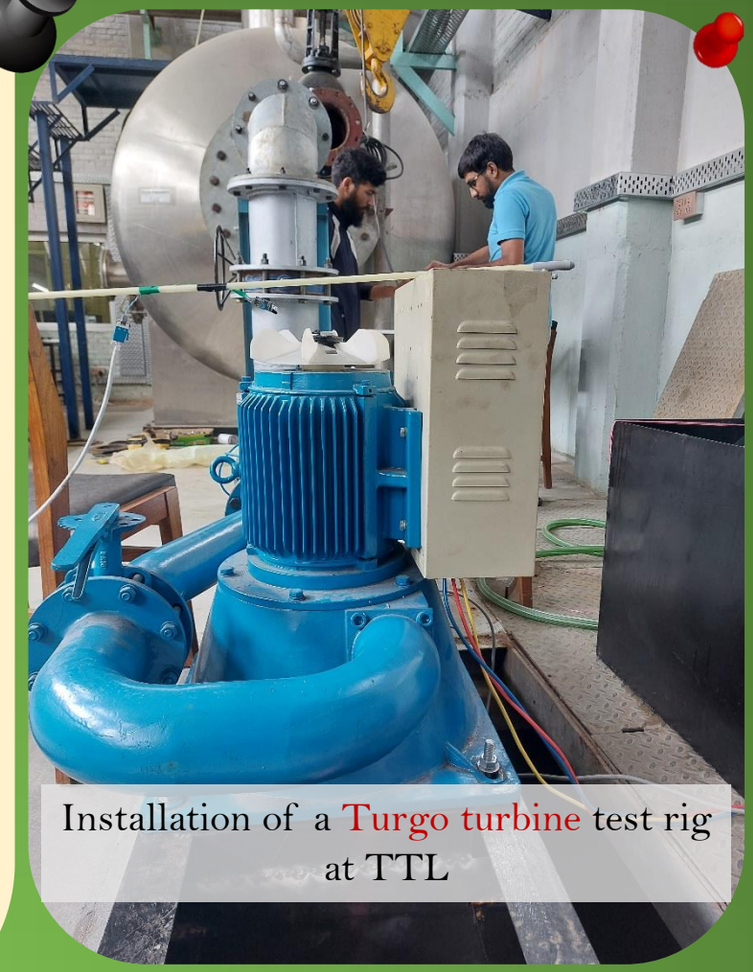
MONTHLY BULLETIN
TURBINE TESTING LAB
SEPTEMBER, 2023

Submission of the papers from projects at TTL in the University Scholar Conference 2023

- Fidelity Analysis of Sand-Casting Technique For Manufacturing Francis Runner by **Ravi Poudel** et. al.
- Numerical Study on Sediment Erosion Resistivity of Conventional and Optimized Francis Runner in Different Operating Conditions In Sediment-Laden Flow by **Pawan Lal Bijukchhe** et. al.
- Comparative Study of Different Erosion Models in Francis Runner Blades Using Openfoam by **Suprim Shrestha** et. al.
- Numerical Study of Sediment Erosion in Guide Vanes of Francis Turbine Using Cascade Rig by **Rakish Shrestha** et. al.
- Numerical Study of Erosion in Pelton Spear Valve: Role of Implementation of Gravity on Lagrangian Particles Using Openfoam by **Prithvi Gurung** et. al.
- Investigation Of Mechanical Faults in Fan Using Vibration Analysis by Subarna Paudel et. al.
- Fault Detection In Turbines Using Machine Learning: A Study Of The Capabilities Of Various Classification Algorithms by **Aditi Baral** et. al.
- Analysis of Butterfly Valve Flow Coefficient through Computational Fluid Dynamics by **Bikram Singh Bhattarai** et. al.
- Reverse Engineering on Pelton Runners by **Suman Shrestha** et. al.



Installation of a Turgo turbine test rig at TTL

Visit by Prof. Dr. Wolfgang Streicher from University of Innsbruck, Austria on September 24

Meeting with Mountain Energy Nepal Ltd regarding the recent erosion pattern in the turbines of Mistri Khola HPP, 42 MW on September 29 along with prospects of further collaboration

Installation of a Francis turbine in the erosion rig