

Anup Bhandari

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Pathari, Province 1 - 56600, Nepal

PROFESSIONAL SUMMARY

Civil Engineer (NEC Reg. No. 92578) working as Headworks Site Engineer with Gaura Construction Pvt. Ltd. on the 40 MW Upper Sankhuwa Khola Hydroelectric Project, supervising construction of the undersluice, radial gates, intake, gravel trap and flushing culverts. Experienced in setting out to design, QA/QC coordination, measurement sheets, quantity calculation and billing support, and daily and weekly progress reporting, with earlier site supervision on bridge and road works. Brings hydraulic modelling expertise from a 2D HEC-RAS study of the Sunkoshi Hydropower Project headworks.

EDUCATION

- Bachelor of Civil Engineering** | Institute of Engineering, Thapathali Campus, Tribhuvan University | Kathmandu, Nepal *April 2021 - June 2025*
 - Grade: First Division (76.86%)
 - Status: Registered via Nepal Engineering Council (2025)
 - Registration No: 92578
- Diploma of Civil Engineering** | Panchayat Secondary School | Pathari, Nepal *April 2016- Nov 2020*
 - TSLC: A+ (3.76 GPA)
 - TSEE: A+ (3.96 GPA)

KEY PROJECTS

- Flow Analysis of Sunkoshi Hydropower Project** (Final Year Project Lead) | Thapathali Campus | Kathmandu, Nepal *2025* *April 2024 - April*
 - Created a complete set of detailed engineering drawings using AutoCAD, including the proposed headworks layout, precise cross-sections and longitudinal profiles of the river channel for the final year projects.
 - Led a team of six students, delegating tasks for data collection, catchment analysis using ArcGIS, and bathymetric survey of Sunkoshi Hydropower headworks.
 - Developed comprehensive project reports and delivered a final presentation to a panel of faculty and industry professionals, effectively communicating project findings, model validation, and design recommendations.
 - Engineered a comprehensive 2D hydraulic model using HEC-RAS to analyze flow dynamics and validate design parameters for the Sunkoshi Hydropower Project.
 - Conducted detailed hydrological analysis to establish design discharge and flood hydrographs, which served as a critical boundary condition for the hydraulic model.
 - Identified and quantified potential flood inundation zones under various return period scenarios, providing key data for risk assessment and mitigation planning.
 - Presented final project findings, including model validation and design recommendations, to a panel of faculty and industry professionals.

RESEARCH AND PUBLICATION

- Dahal, A., Bhandari, A., & Boyaju, G. (2025). Reassessing the Bus Priority Lane and Exploring the Feasibility of BRT in Kathmandu. *International Journal on Engineering Technology and Infrastructure Development*, 2(1), 193–207. <https://doi.org/10.3126/injet-indev.v2i1.82492>
- Bhandari, A., Aryal, A., Joshi, G., Bimali, B., Baniya, B., Aryal, A., ... Devkota, N. (2026). 2D hydraulic modelling of diversion headworks under extreme flood conditions: A case study of Sunkoshi hydropower project. *Journal of Innovations in Engineering Education*, 9(1), 27–38. <https://doi.org/10.3126/jiee.v9i1.82739>

PROFESSIONAL EXPERIENCE

- Headworks Site Engineer** | Gaura Construction Pvt. Ltd. (Contractor) | Upper Sankhuwa Khola Hydroelectric Project (40 MW), Sankhuwasabha, Nepal *Nov 2025 - Present*
 - Supervise headworks construction from excavation onward, including the undersluice, radial gates, intake and intake gates, gravel trap and flushing culverts.
 - Set out structures on site to the consultant's design drawings, coordinating with surveyors on layout.
 - Supervise reinforcement works, including bar bending and bar cutting, and coordinate with the QA/QC team to ensure the quality of works.
 - Liaise with the client and consultant on site changes, and support the site in-charge in planning and running the works efficiently.
 - Prepare daily progress reports (DPRs), weekly reports and weekly presentations, and assist with monthly reports.
 - Prepare measurement sheets and field joint measurement sheets, and assist with quantity calculation and billing.
 - Maintain records of all works carried out on site.
- Civil Engineering Intern** | Pathari-Sanischara Ward-03 & Ward-07 Offices | Pathari, Nepal *April 2018- Feb 2021*

(Two Separate internships)

- o Supervised on-site construction of the Pathari Khola bridge, a critical infrastructure project, ensuring adherence to structural designs and drawings.
- o Monitored construction activities and ensured quality assurance for a 5 km gravel road project, verifying compliance with all material and procedural specifications.
- o Collaborated with the Ward Sub-Engineer on multiple civil infrastructure projects, including site assessments and progress reporting, to support community development initiatives.
- o Conducted regular site inspections for the construction of public works, including a community hall and a side drain system, verifying quality and adherence to design plans.

TECHNICAL SKILLS

- o **Hydraulic & Hydrological Software:** HEC-RAS, ArcGIS,
- o **CAD & Design Software:** AutoCAD, Civil 3D
- o **Structural Analysis Software:** ETABS
- o **Project Management Software:** Primavera P6, MS Office Suite (Excel, Word, Powerpoint)
- o **Languages:** English (Fluent), Nepali (Fluent), Hindi (Intermediate)

HONORS AND CERTIFICATION

- **3rd Position**, Mix design Competition, Yathartha (CESS, FSU Thapathali) Feb 2024
- **3rd Position**, Floatcrete Competition, Yathartha (CESS, FSU Thapathali) Feb 2025
- **4th Position**, Shake Table Competition, Yathartha (CESS, FSU Thapathali) Feb 2025
- **ETABS Training Certification** July 2023
- **MS-Office Workshop Certification** Oct 2023

REFERENCES

1. **Rajendra Bahadur Chettri**
Associate Professor, Department of Civil Engineering
Thapathali Campus
Email: rbc@ioe.edu.np
Phone: +977 9851003236
Relationship: Project Supervisor and Former Board Member of Governmental Body Nepal Electricity Authority
2. **Nirajan Devkota**
Associate Professor, Department of Civil Engineering
Thapathali Campus
Email: nij.dev47@tcioe.edu.np
Phone: +977 9849322477
Relationship: Project Supervisor
3. **Basanta Khadka**
OJT Coordinator, Civil Engineering Department
Panchayat Secondary School
Email: bkhadka976@gmail.com
Relationship: On-Job-Training Coordinator