

CURRICULUM VITAE (CV)

Name:	Giridhar Koirala
Date of Birth:	19 th Jan 1999
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Education:

- MSc. Water Resources Engineering (Thesis Remaining): IOE, Pulchowk Campus, TU
- Bachelor's degree in Civil Engineering: IOE, Purwanchal Campus, TU
 - Dissertation: Seismic Resistant Design of Multi-Commercial Building

Employment Record Relevant:

Period	Employing Organization and Title / Position, Contact Information for References	Summary of Activities Performed Relevant to the Assignment
Aug 2022 – Mar 2025	Employer: Impulse Consultants Pvt. Ltd. Position Held: Civil Engineer Reference: Er. Bhabuk Raj Aryal, Managing Director Email: bhabukaryal@gmail.com	<ul style="list-style-type: none"> • Conducted various soil investigations, hydrological studies, and detailed drawings of the design of bridges, roads and river sections, as well as their detailed engineering survey. • Preparation of field, preliminary, draft and final reports and Cost Estimation for bridges (RCC T-Girder, PSC, Arch, Truss), Parks and Roadways. • Prepare Pre-tender and Contract Documents and presentation of projects at various levels.

Computer Software experience:

- MS software like PowerPoint, Excel and Word
- Google Earth Engine, GIS, AutoCAD, Smart Road, SWAT, HEC-RAS, SAP
- R, Python Programming languages
- Total Station, GPS devices, SW DTM: Digital Terrain Modelling and Contouring

Language skills:	Speaking	Reading	Writing
Nepali	Excellent	Excellent	Excellent
English	Good	Excellent	Good
Hindi	Good	Good	Good

Adequacy for the job to be provided:

Reference to Prior Work/Assignments (projects) that best illustration of the qualification
<p>Name of Project or Assignment: • Detailed Design of Upgradation of Kamala-Dhalkebar-Pathlaiya Road Section (130km) of Mahendra Highway and Bridges (SRCTIP)</p> <p>Duration: March 2023- Dec 2023</p> <p>Location: Mahendra Highway Kamala-Pathlaiya Section</p> <p>Client: International Consultant: (EPTISA-STUP JV).</p> <p>Position Held: Civil Engineer</p> <p>Activities Performed:</p> <ol style="list-style-type: none"> Performed the detailed general arrangements, structure drawings, cross-section of rivers based on predefined Plans and existing structures for 21 bridges and culverts along the highway section. Preparation of Bar Bending Schedule and Cost Estimate for each bridge.
<p>Name of Project or Assignment: Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridges at Raji Khola along Tulsipur-Purandhara-Botechour Road (NH19)</p> <p>Duration: July 2023- March 2024</p> <p>Location: Dang</p> <p>Client: Department of Roads, Madan Bhandari Highway Project Directorate</p> <p>Position Held: Civil Engineer</p> <p>Activities Performed:</p> <ol style="list-style-type: none"> Preparation of field, preliminary, draft and final reports. Hydrological study for checking High Flood Level and Scour level for abutments and piers. Preparation of Rate analysis and Cost Estimate Performed the detailed substructure drawing, topographical maps, cross-section of rivers and approach road for above mentioned bridges.
<p>Name of Project or Assignment: Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Maruwa Khola Motorable Bridge at Katari Municipality, Udayapur,</p> <p>Duration: June 2023- March 2024</p> <p>Location: Nepal;</p> <p>Client: Ministry of Road Infrastructure & Urban Development, Transport Infrastructure Directorate, Infrastructure Development Office (IDO)</p> <p>Position Held: Civil Engineer</p> <p>Activities Performed:</p> <ol style="list-style-type: none"> Preparation of field, preliminary, draft and final reports. Preparation of Rate analysis and Cost Estimate Performed the detailed substructure drawing, topographical maps, cross-section of rivers and approach road for above mentioned bridges.
<p>Name of Project or Assignment: Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridge, Satbise Dihi Pakki Pul, Sunkoshi 5, Sindhuli</p> <p>Duration: May 2023- March 2024</p> <p>Location: Nepal;</p> <p>Client: Ministry of Road Infrastructure & Urban Development, Transport Infrastructure Directorate, Infrastructure Development Office (IDO)</p> <p>Position Held: Civil Engineer</p> <p>Activities Performed:</p> <ol style="list-style-type: none"> Preparation of field, preliminary, draft and final reports. Preparation of Rate analysis and Cost Estimate Performed the detailed substructure drawing, topographical maps, cross-section of rivers and approach road for above mentioned bridges.

<p>Name of Project or Assignment: Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridges.</p> <ul style="list-style-type: none"> • Dudhpokhari 2 Bichaur Langadi Khola Doban Bridge • Muge Chepenadi Sadak Pul • Fushre Khola Motorable Bridge • Sayala Khola Motorable Bridge • Seti Khola Motorable Bridge • Marang Khola Motorable Bridge • Muna Mundri Daar Khola Motorable Bridge • Adhibhara Motorable Bridge • Modi Khola Motorable Bridge <p>Duration: July 2022- Jan 2024</p> <p>Location: Various</p> <p>Client: Department of Roads, Bridge Branch</p> <p>Position Held: Civil Engineer</p> <p>Activities Performed:</p> <ol style="list-style-type: none"> Preparation of field, preliminary, draft and final reports. Preparation of Rate analysis and Cost Estimate Performed the detailed substructure drawing, topographical maps, cross-section of rivers and approach road for above mentioned bridges. Performed detailed engineering survey of river sections and approach road for above mentioned bridges.
<p>Name of Project or Assignment: Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Engineering Design of Motorable Bridges of Wargang Khola Bridge, Lisangkhu Pakhar Ga.Pa 03 & Khar Khola Dhau Khola Dovan Palungtar Na.Pa. 1 & 9/10 jodne Road, Gorkha</p> <p>Duration: August 2022- December 2023</p> <p>Location: Various;</p> <p>Client: Department of Local Infrastructure (DOLI), Local Bridge Section</p> <p>Position Held: Civil Engineer</p> <p>Activities Performed:</p> <ol style="list-style-type: none"> Preparation of field, preliminary, draft and final reports. Hydrological study for checking High Flood Level and Scour level using Hec-Ras, SWAT and empirical formulas. Preparation of Rate analysis and Cost Estimate Performed the detailed substructure drawing, topographical maps, cross-section of rivers and approach road for above mentioned bridges. Performed detailed engineering survey of river sections and approach road for above mentioned bridges.

Trainings, studies and workshops:

Time frame	Name of training, study or workshop	Reference	Remarks
17 th August 2024 – 2 nd March, 2025	<p>Name of Study: Project Management System with Smart Estimation</p> <p>Organizer: Data Construct Pvt. Ltd.</p>	Er. Ashok Basnet (Director, Data Construct Pvt. Ltd.)	AI powered Software Product development for project management system with integrated rate analysis and cost estimation sheets for governmental agencies
15 th June 2024 - 19 th June, 2024	Name of Training: Training on Hydrological data modelling and analysis using SWAT Application	Er. Nirajan Devkota (IOE, Pulchowk Campus.)	Hydrological Modelling using SWAT. Calibration and validation of Hydrological model using SWAT-CUP
25 th March 2024 - 31 th May, 2024	Name of Study: Glacio-Hydrologic Analysis for IMJA_ISHO using Energy Band Classification	Susen Shrestha (Researcher, EURAC Research)	Exploiting ERA5 Reanalysis dataset for glacio-hydro study using Energy Band Classification

January 2-7 th , 2024	Name of training: Training on Water-Energy-Food Ecosystem WEFE nexus. Organizer: International Water Management Institute (IWMI), International Centre for Tropical Agriculture (CIAT), Centre for Water Resource System (CWRS), Biodiversity International, CGIAR	Prof. Dr. Vishnu Prasad Pandey, (CWRS, IOE) Bharat Kumar Pokharel, (Great International)	WEFE Nexus Capacity Building professional Course.
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References

S. N	Name of Referee	Contact Details	Organisation
1.	Er. Bhabuk Raj Aryal	Email: bhabukaryal@gmail.com	Impulse Consultants Pvt. Ltd.
2.	Er. Yuman Shakya	Email: yuman05142@yahoo.com	IOE, Purwanchal, Campus