

CURRICULUM VITAE (CV)

Proposed Position Title	: Team Leader
Name	: Dr. Mohan Prasad Acharya
Date of Birth	: 16th November 1975
Country of Citizenship/ Resident	: Nepali

Education:

- ▶ **PhD, Geotechnical Engineering - 2016**, University of Alberta, Edmonton, **Canada**,
- ▶ **M.Sc. Geotechnical Engineering - 2004**, Institute of Engineering of Pulchowk Campus, Tribhuvan University, Kathmandu, **Nepal**,
- ▶ **Bachelor's Degree in civil engineering – October 1999**, Institute of Engineering of Pulchowk Campus, Tribhuvan University, Kathmandu, **Nepal**.
- ▶ **Diploma Civil Engineering - 1995**, Institute of Engineering Pulchowk Campus, Tribhuvan University, Kathmandu, **Nepal**

Employment Record Relevant to the Assignment:

Period	Employing Organization and your Title / Position. Contact Information for References	Country	Summary of Activities Performed Relevant to the Assignment:
Nov 20 2017 to date	NEA engineering Company. Ltd	Nepal	Preliminary geological/geotechnical assessment of hydropower sites, preliminary selection of dam and power house sites, preparation of inception/ feasibility study reports. TL Rolwaling Khola HEP DTL Kimathanka Arun HEP Head- Geotech group
1 st May- 2017 Novr 15 2017	Employer: Sanjen Jal vidhuyt ayojana Position held: Geotechnical engineer expert For references: Ref.: Kiran Kumar Shrestha MD Tel: 9851191212	Nepal	Review of design for the mitigation of slope failure and foundation for the power house site at Sanjen hydropower project Rasuwa. Responsible for expert input on the slope stability analyses, design of stabilization methods, analysis of power house foundation, preparation of geotechnical investigation, and report preparation and planning for monitoring slope movement.
	Employer: Professional Network P. Ltd. Position held: Geotechnical engineer For references: Ref.: Arjun Marasini MD Tel: 9851113132	Nepal	Review of DPR reports, design of head works and tunnel of Chulepu Khola, HPP (8.6 MW) Aankhu Khola HPP (20 MW), Nepal. Responsible for expert input on the slope stability analyses along the penstock, Canal alignment, analysis of design of head race tunnel and geotechnical analysis of power house foundation.
	Employer: RIDC Pvt. Ltd. Position held: Geotechnical/Bridge engineer For references: Ref.: Jagat Ranabhat/ MD Tel: 98511 32180	Nepal	Preparation of geo-technical investigation report, findings and design of foundation works for detailed design of double lane 10 nos of Bridges in Rupandehi and Pyuthan districts.
	Employer: University of Alberta Position Held: Research Assistant For References: Dr. Michael Hendry Mail: hendry@ualberta.ca	Canada	Development of model for the long-term deformation of organic materials based on the simple laboratory and field measurement of deformation. One paper submitted for review in Acta Geotechnica .
	Employer: RIDC Pvt. Ltd. Position held: Geotechnical/Bridge engineer For references: Ref.: Jagat Ranabhat / MD Tel: 98511 32180	Nepal	Preparation of geo-technical investigation report, findings and design of foundation works for detailed design of double lane 10 nos of Bridges in Kathmandu and Dang districts.
	Employer: MMM Group Ltd. Canada in JV in association with ITECO Nepal Ltd.–Total Management services (P) Ltd. & Materials Test (P) Ltd. Position Held: Geotechnical Engineer For References: Tel. 46 21764, Fax: 46 22 298 Email: iteco@mos.com.np Name and title held: Mr. T.L. Adhikari, MD	Nepal	Transport Project Preparatory Facility - Project Preparatory Consultant (PPC-2 Road) in Nepal. ADB Grant 0227-NEP , Preparing of geology and geo-technical investigation of Roads and 87 nos of Bridges under SASEC Roads Improvement Project. Total Feasibility Study 527 km & Detail Design 525KM and 2 Lane Road 320KM and 4 Lane Road 205 ; Preparation of geo-technical investigation report, findings and design of foundation works for detailed design of double lane 86 nos of Bridges and 46 no. four lane minor bridges along Narayaghat – Butwal Road.
16 th June 2016 – April -30 2017	Employer: ITECO Nepal (P) Ltd. Position Held: Geotechnical Engineer For Reference: Tel: +977-1- 46 21 764; Fax: 46 22 298 Mail: iteco@mos.com.np	Nepal	Detailed Feasibility Study and design Report for Upgrading of Dhulikhela - Barabise Road (57km hill road) to Four Lane Asian Highway Standard , Responsible for expert input on the preparation of geological and geotechnical reports, slope stability analyses design of stabilization methods and report preparation,

	<p>Name and title held: Tuk Lal Adhikari – MD</p> <p>Employer: EcoCODE Pvt. Ltd.</p> <p>Position held: Geotechnical/Bridge engineer</p> <p>For references:</p> <p>Ref.: Kumar Dhamala/ MD</p> <p>Tel: 9851076265</p>		<p>analysis and design of slope structures.</p> <p>Preparation of geo-technical investigation report, findings and design of foundation works for detailed design of double lane 11 nos of Bridges in Dang and Surkhet districts.</p>
	<p>Employer: University of Alberta, Canada.</p> <p>Position Held: PhD Student /Research Associates</p> <p>For Reference:</p> <p>Dr. Michael Hendry</p> <p>Mail: hendry@ualberta.ca</p>	Nepal	<p>Field monitoring of the movement of slow moving slide of reservoirs (Dutchman creek slide, left slope Revelstok dam, BC, Canada), Highways (Highway 1, along Thomson river valley, BC), and open pit mine slopes with ground based radar and analysis of the stability of these slopes using Geoslope and Flac.</p> <p>Analysed the stability of bridge foundation on jointed rock slope by LEM and FEM method (using Geostudio).</p> <p>Analysed the stability of concrete arch dam foundation (Revelstok BC) on layered rock mass using FEM program Abacus.</p> <p>Design and stability analysis of Earthen Dams (Alberta environment dams) during construction, during filling and long term stability of dam slopes, using analytical and numerical simulation using geostudio.</p> <p>Numerical Modelling, stability / displacement analysis of Highway, Railway (Edmonton LRT), power tunnels excavated in glacier deposit and bed rock with Tunnel Boring Machine (TBM) Earth Pressure Balance (EPB) system and Beach cutting methods using phase 2, unwedge, examine 2D & 3D, Flac 2-3D. Numerical analysis of deformation of large cavern for the storage of hazardous materials in hard bed rock.</p> <p>Designed and installed instruments to monitor, deformation, temperature, and pore pressure at three embankments along the Canada National railways in Alberta and Quebec. Conducted short and long term triaxial tests on peat specimens. Identified the presence and effect of gas bubbles in pore pressure behaviour in peat subgrade underlying railway embankment. Identified the mechanism of movement and expulsion of gas from the peat matrix. Developed an empirical correlation to estimate the settlement of peat foundation due to expulsion of gas bubbles.</p>
	<p>Employer: RIDC (P) Ltd. (<u>April 2010 - April 2011</u>)</p> <p>Position Held: Geotechnical Engineer</p> <p>Tel: 98511 32180</p> <p>Name and title held: Managing Director</p>	Nepal	<p>Responsible for preparation of geological and geotechnical specifications, conducting field inspections for unstable slope identification, material investigation surveys and testing, soil investigation, field investigation work, laboratory testing analysis, quality control assurance, material testing, foundation design analysis, slope stability analyses & stabilization methods and design report preparation for the several of geotechnical report, structural analysis, design, preparation of report of 13 motorable bridges in Rupandehi, sunsari, Sindhuli and Dailekh district for Department of Road (DoR) and one bridge for DoliDAR.</p>
Sep. 2008~June 15. 2016	<p>Employer: RIDC (P) Ltd. (<u>February 2009 ~ Sept 2009</u>)</p> <p>Position Held: Geotechnical Engineer</p> <p>Ref.: Jagat Ranabhat/ MD</p> <p>Tel: 98511 32180</p> <p>Name and title held: Managing Director</p>	Nepal	<p>Responsible for preparation of geological and geotechnical specifications, conducting field inspections for unstable slope identification, material investigation surveys and testing, soil investigation, field investigation work, laboratory testing analysis, quality control assurance, material testing, foundation design analysis, slope stability analyses & stabilization methods and design report preparation for the several of geotechnical report, structural analysis, design, preparation of report of 12 motorable bridges and approach road for DoR in Sarlahi, Kathmandu, Rautahat districts, and 5 motorable bridges and approach roads for DoLIDAR in Palpa, Dhading, Kailali,</p>
	<p>Employer: RIDC - MEH – EEC – ERM</p> <p>Position Held: Geotechnical Engineer</p> <p>For Reference:</p> <p>Jagat Ranabhat/ MD</p> <p>Tel: 98511 32180</p>	Nepal	<p>Responsible for preparation of geological and geotechnical specifications, conducting field inspections for unstable slope identification, material investigation surveys and testing, soil investigation, field investigation work, laboratory testing analysis, quality control assurance, material testing, foundation design</p>

	<p>Name and title held: Project Director</p>		<p>analysis, slope stability analyses & stabilization methods and design report preparation for the several of geotechnical report, structural analysis, design, preparation of report of 15 motorable bridges and approach road for DOR, and 13 Motorable bridge for DoliDAR and one Motorable bridge for BPC Hydro Kathmandu.</p> <p>Planning, preparation of geotechnical report, structural analysis, design, preparation of drawings, costing and specification of,</p> <p>Planning of the detailed geotechnical investigation of bridges, buildings, communication and transmission line towers and substations and preparation of geotechnical report and design of foundation</p>
	<p>Employer: MEH Consultants (P) Ltd. Position Held: Geotechnical Engineer For Reference: Tel:+ 4477634/4477349; Fax: 4477385 Mail: meh@mehconsultants.com Name and title held: Govinda Tamrakar - Managing Director</p>	Nepal	<p>Responsible for preparation of geological and geotechnical specifications, conducting field inspections for unstable slope identification, material investigation surveys and testing, soil investigation, field investigation work, laboratory testing analysis, quality control assurance, material testing, foundation design analysis, slope stability analyses & stabilization methods and design report preparation for the several of geotechnical report, structural analysis, design, preparation of report of Timai Khola Bridge, Jhapa and geological investigation of approach road.</p>
Sep 2005 ~ Aug 2008	<p>Employer: Sub Structural Consultant/ SILT/ GIDA Position Held: Geotechnical Engineer. For Reference: Tel: +977-1-4433359 Name and title held: B.J. Shahi - Project Manager</p>	Nepal	<p>Planning, preparation of geotechnical report, structural analysis, design, preparation of drawings, costing and specification of 4 bridges and approach road for DOR, 3 Bridges and approach road for Melamchi water supply project, and one bridge for DOLI DAR.</p> <p>Planning of the detailed geotechnical investigation of hydropower and irrigation projects, including drilling, geophysical investigation, permeability and lugeon tests, Installation of piezometers and, inclined drainage to stabilize the slope of power house, preparation of geotechnical report for the dam foundation and tunnel alignment and Power house of Upper Marsyangdi HPP project, at Tal, Manang for Him Tal P. Ltd. Upper Tamakoshi Hydropower project, Lamabagar Dolakha for Nepal Electricity Authority, Middle Marsyangdi Hydroelectric project (MMHEP) for CWE China, Upper Modi (western Nepal) Hydroelectric project for Gitec Nepal Pvt Ltd. Sunsari Morang Irrigation Project at Eastern Nepal for Sanyu Consultants Inc./ JICA</p> <p>Planning of the detailed geotechnical investigation of bridges, buildings, communication and transmission line towers and substations and preparation of geotechnical report and design of foundation.</p>
March 2005 ~ Aug 2005	<p>Employer: Sub Structural Consultant / SILT Consultant JV Position Held: Geotechnical Engineer For Reference: Tel: 4473573, 4470866, 4487598, 4495163 Fax: 977-1-4473573 Email: silt@mos.com.np Name and title held: Keshab Kunwar- MD</p>	Nepal	<p>Detailed Feasibility Study and design Report for Kathmandu Naubise Alternative Road (27Km), Responsible for preparation of geological and geotechnical specifications, conducting field inspections for unstable slope identification, material investigation surveys and testing, soil investigation, geophysical exploration to determine the possible landslide and stratification for the design of tunnels (900m and 3 KM long), foundation design analysis of bridges and culverts, slope stability analyses & stabilization methods and design report preparation for the several of geotechnical report of structural analysis and design.</p> <p>Planning of the detailed geotechnical investigation of hydropower and irrigation projects, including drilling, geophysical investigation, permeability and lugeon tests, Installation of piezometers and, inclined drainage to stabilize the slope of power house, preparation of geotechnical report for the dam foundation and tunnel alignment and Power house of Middle Marsyangdi Hydroelectric project (MMHEP) for Fitchner JV, Kathmandu, Sarada Babai Multipurpose Hydroelectric project for Electricity Development Centre</p> <p>Planning of the detailed geotechnical investigation of bridges,</p>

			buildings, communication and transmission line towers and substations and preparation of geotechnical report and design of foundation.
April 2001 ~ February 2005			
November 1999 to March 2001			

Membership in Professional Associations:

- ▶ Member, Nepal Engineering Council **Regd. No. 1,923 Civil "A" Category**
- ▶ Member, Nepal Engineers Association
- ▶ Member Canadian Geotechnical Society.
- ▶ Member Edmonton Geotechnical Society.

Publications:

- Thermally induced pore pressure in peat beneath a railway embankment (2015). International Journal of Geochemical Engineering.
- Effect of gas bubbles on pore pressure response in peat beneath a railway embankment (2015). Canadian Geotechnical Journal.
- Quantification of settlement of an embankment constructed on peat due to expulsion of gases (2016). International Journal of Geomechanics, ASCE.
- Creep behavior of Fibrous peat. Submitted to Acta-Geotechnical (2016).

Other Trainings:

- SAP Training for structural analysis professional network for Engineering (1 Month).
- Computer Software: AutoCAD, MS Project, Microsoft Office
- Structural /Geotechnical Engineering Software: Abacus, Flac 2D/3D, Geo-Slope, Soil Vision, Plaxis, settle 3D, Phase2, Wedge, Examine 2D/3D

Language skills (indicate only languages in which you can work): **English:** Excellent & **Nepali:** Excellent

Contact information:

E-mail: mp.acharya@gmail.com

Phone: 9861 447 888

Certification:

I, the undersigned, certify to the best of my knowledge and belief that

- i. This CV correctly describes my qualifications, and experience.

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: **4 February 2020**
Day/Month/Year

[Signature of Expert or Authorized Representative of the Firm]

Signature of Expert: **Dr. Mohan Prasad Acharya – Geotechnical Engineer**

Full name of Authorized Representative: