

CURRICULUMVITAE (CV)

Position Title	SENIOR GEOTECHNICAL ENGINEER
Name of Firm	Self-employed
Name of Expert	VIJAYA BAHADUR SHRESTHA
Date of Birth	13 November 1955
Country of Citizenship /Residence	Nepal / Resident of Canada

Education:

- M.E. in Geotechnical Engineering from Asian Institute of Technology (AIT), Bangkok, Thailand 1986-1988
- M.S. in Mining Engineering from PFU, Moscow, 1975-1981

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
Oct 2016 to June 2018 (intermittent)	Employing organization: Asian Development Bank, Manila Title/Position: Landslide Stabilization Specialist International Type of employment: Intermittent	Pakistan / AJK	Prepare landslide stabilization strategy based on situation analysis, suggest technical measures including engineering and bioengineering techniques for stabilization of landslides/slopes. Review plans and designs prepared by national consultants and provide technical inputs, Assess institutional capacity of Forest department and prepare capacity building plan conduct training programs, support Forest department in all geological and geotechnical and geomorphological analysis relevant to landslide risk assessment. Promote and guide share best practices relevant to landslide risk assessment, prevention and mitigation.
April 2016 to date (intermittent)	Employing organization: KOCKS Consult GmbH, Germany: under ADB Grant CAREC 2, 5 & 6 Title/Position: Geotechnical / Material Specialist Type of employment: Intermittent	Tajikistan	Planning and implementation of Geotechnical Investigation for Bridge foundations, Pavement and Construction Materials. Stability study of soil and rock slopes. Pavement design for the project feasibility study. Preparation of Feasibility report for upgradation of the 90 km road including drainage system, prepare bill of quantity and assist in preparation of contract documents for the civil work package(s) related to the highway improvement with ADB requirements and the project procurement plan.
July 2014 to date (intermittent)	Employing organization: SMEC International Pty Ltd, Australia: under ADB Grant CAREC 3 \$ 5 Title/Position: Geotechnical Specialist Type of employment: Intermittent	Tajikistan	Reviewed Road and Bridge geotechnical reports; conducted confirmatory Geotechnical investigations and recommended measures for ground improvement at weak subgrade sections, recommended road structure protection measures in salt deposit areas; reviewed slope stability of steep road cut slopes, large active slide areas and recommended and provided specialty design for the slope stability using civil structures; surface and subsurface drainage systems; other preventing measures such as unloading and strengthening shear strengths of slide mass and failure surfaces; recommended and provided specialty / environmental mitigation designs for intensive valley and gully erosions to stabilize the slopes including bioengineering methods.
Apr –May 2014	Employing organization: SMEC International Pty Ltd, Australia under ADB Grant CAREC 3 Title/Position: Geotechnical Specialist Type of employment: Intermittent	Tajikistan	Reviewed Geotechnical surveys for slope stability design in weak soil slope with high groundwater flow; recommended and provided specialty design for groundwater drainage and stability of road slope.
Jul 2013 - Mar 2014	Employing organization: Asian Development Bank under ADB Grant TA-8373 TAJ Title/Position: Individual Geotechnical Specialist Type of employment: Contractual	Tajikistan	Conducted Geotechnical survey. Prepared Geotechnical report including specialty preliminary design for the slope stability and contributed to the preparation and completion of bills of quantities, associated drawings and contract documents for the design/ build civil work package(s) related to the highway improvement with ADB requirements and the project procurement plan.

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May 2013 - Jul 2013	Employing organization: Ministry of Transport, Republic of Tajikistan / ADB Grant 0245-TAJ Title/Position: Geotechnical Specialist Type of employment: Contractual	Tajikistan	Geotechnical study of the Vose-Kovaling road regarding slope stability and road protection. Design and provision of typical slope stability methods. Study of pavement condition of the Sayron-Karamyk road and recommend measures to mitigate the short coming in the road pavement.
Mar 2013 - Apr 2013	Employing organization: Sheladia Associates Inc, USA Title/Position: Geotechnical Specialist Type of employment: Contractual	Bhutan	Reviewed the project proposals and designs for treatment of slide areas (Tintaley, Kezari and Sonam) along Manitar-Raidak-Lamozingh Highway. Reviewed the site conditions and the formation cutting. Developed and finalized the working proposals which the contractor can implement for protecting the slide areas by providing sufficient detailing of the proposals for implementation.
Mar 2012 - Jul 2012	Employing organization: Ministry of Transport, Republic of Tajikistan / ADB Title/Position: Individual Geotechnical Specialist Type of employment: Contractual	Tajikistan	Investigated the existing slides and stability of the cut and fill slopes along the 47 km long mountainous section of the road. Guided, coordinated and supervised the geotechnical investigations, field and laboratory, hydrogeological field investigation as needed in conjunction with the engineering team of the project implementation unit of the Ministry of Transportation. Prepared typical designs for slope protections, drawings, bill of quantities, contract documents for design/build civil works packages in conformity with ADB requirements, and the project procurement plan.
Jun 2004 - April 2013	Employing organization: The Louis Berger Group Inc. USA Title/Position: Senior Geotechnical Engineer/ Soil Engineer/ Chief Geotechnical/Foundation Engineer Type of employment: full time	India	Geotechnical investigation for the ground improvement for the construction of mechanically stabilized earth retaining wall for two approximately 13m high ROB's. The ground improvement is to be done by installing Rammed aggregate piers at designed intervals to improve the ground properties. Geotechnical Investigation and design of Slope stability measures, Tunnel Alignments, Deep and Shallow Foundations. Prepare Bill of Quantities and cost estimate for Bidding.
Apr 2010 - May 2010 (Intermittent)	Employing organization: Eng-Consult, Canada Title/Position: Senior Geotechnical Engineer Type of employment: Contractual	Georgia	Geotechnical investigation of the road alignment, weak ground areas, slide areas and the bridge sites. Prepare the scope of further subsoil investigation for weak ground sites, bridge sites, tunnel alignment and tests for pavement design. Recommend methods for ground improvement in swampy areas. Design of embankments. Analysis and design slope protection measures in mountainous areas and assist in design of tunnel support system. Preparation of special specifications and assist in preparation of Bid documents, procurement and preparation of relevant project processing documents, in accordance with relevant ADB guidelines and requirements.
May 2006 - Oct 2006 (Intermittent)	Employing organization: Eng-Consult, Canada Title/ Position: Senior Geotechnical Engineer Type of employment: Contractual	Afghanistan	Geotechnical investigation of dam site, intake portal, headrace tunnel/canal, fore bay, penstock and power house for all the potential projects. Detailed investigation for the five selected projects. Design of slope protection measures for the selected projects. Conducted detail feasibility study for the construction of Ghor HEPP as a part of the existing irrigation and water supply project. Report preparation.
Dec 2002 - May 2004	Employing organization: Water Resource Consultant Title/Position: Chief Geotechnical Engineer Type of employment: Contractual	Nepal	Soil surveys and geotechnical investigation of dam site, intake portal, headrace tunnel/canal, fore bay, penstock and power house. Foundation of all bridges (well foundation), construction material investigation and testing. Design of all foundations of bridges for approach roads and aqueducts, high embankment design, large structures, slope protection measures. Assist in preparation of testing programs for QA. Assisted in preparation and evaluation of tender documents based on FIDIC Conditions.

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Sep 2002 - Dec 2002	Employing organization: Sand And Stone Consultants, Nepal Title/Position: Senior Geotechnical Engineer Type of employment: Contractual	Nepal	Soil surveys and geotechnical investigation of the existing runway. Sample collection and testing. Embankment design using alternative and locally available materials. Assist in preparation of testing programs for QA and construction materials specifications. Assisted in preparation of tender documents based on FIDIC Conditions. Soil surveys and geotechnical investigation of Seti Pahiro Landslide of Sindhuli District. Design of mitigation measures. Design of slope stability and protection measures. High retaining walls.
Dec 1999 - Aug 2002	Employing organization: STUPA, Consultancy Pvt Ltd., Nepal Title/Position: Team Leader/ Chief Geotechnical Engineer Type of employment: Contractual	Nepal	Overall project management. Oversee all survey works including soil surveys and geotechnical investigations. Verify all foundation designs of all bridges (open type) and culverts. Prepare designs using alternative and locally available materials. Prepare specifications for construction materials. Monitor construction supervision. Quality assurance and control. Liaise with various Govt. Agencies. Supervise installation and material tests/investigations conducted in Field Testing Laboratories and carry out tests on completion. Assist in developing Quality Assurance System for the project. Prepare various project reports and impart training and technology transfer.
Sep 1997 - Nov 1999	Employing organization: Joint Venture BBCD, Thailand Title/Position: Senior Coordinator/ Senior Geotechnical Engineer Type of employment: Contractual	Thailand	Worked in Design and Construction of Bangna-Bangpli-Bangpakong Expressway Project. Design pile foundation and co-ordinate for the US\$ 650M BBBE B.O.T. contract including the design and construction of 55km long 2x3 elevated expressway, 26 access ramps, 11 elevated toll/surveillance platforms covering a total deck area of 1.9 million sq.m. and associated at-grade road work. Pile foundation design (driven as well as bored) for each pier location according to the CPT values provided. Modification of Foundation Design according to Site conditions. Co-ordination between the structural design, highway design, site management and the precast yard. Coordination between Design and Construction Sites. Design Amendments.
Sep 1996 - Aug 1997	Employing organization: HOPEWELL (Thailand), Ltd Title/Position: Team Leader / Piling Engineer Type of employment: Contractual	Thailand	Worked in Bangkok Elevated Road and Train System (BERTS) Project. Responsible for construction supervision of 1.6m diameter, 45 to 65 m deep shaft grouted cast in-situ bored piles, soil logging of the bore holes. Modification of pile lengths according to the soil log, control and monitor quality of drilling fluid. Quality control of concrete for pile production and scheduling & monitoring of technical staff at the site. Site safety.
Jan 1982 - Aug 1996	Employing organization: Department of Mines & Geology, Government of Nepal Title/Position: Mining Engineer/ Geotechnical Type of employment: full time	Nepal	Soils Survey and Geotechnical Investigations of dam site, desiltation tank, diversion structure, tunnel alignment, underground power house site, design of foundations for major bridges for approach road and high embankment design of the Upper Arun Hydro electricity Project and Chamaliya Gad HEP. Also involved in carrying out material testing program development, coordination among various survey groups and the centre. Detail survey, soil test, geotechnical investigations and design of bridge foundations Sangle Bridge, Kathmandu; Sapan Tirtha Bridge; Dhobi Khola Bridge; Bishnumati Bridge.

Membership in Professional Associations and Publications: Registered Engineer, Council of Engineers, Nepal (13, Class A); Member of the Institution of Engineers, India (No AM 51485); Life Member, Nepal Engineers' Association (No. 1043); Life Member, Nepal Geological Society (No. 247); Member, International Engineering Geological Society; Member, Nepal Geotechnical Society

Language Skills:

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Nepali	Excellent	Excellent	Excellent
Hindi	Good	Good	Fair
Russian	Excellent	Good	Good
Newari	Excellent	Good	Good

Alumni's contact information:

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