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About Us

➤ Company

Infrastructure Engineering Research and Consult (IERC) is managed by a team of competent, efficient and result oriented professionals. IERC was registered on 2061/04/25 BS (2004/08/09 AD) with the capital of 500 thousand with the name **Infrastructure Engineering and Resources Consult Pvt. Ltd.**; later it was renamed **Infrastructure Engineering Research and Consult** on 2017. The company management wee changed and included young and entergetic presonal. New enthusiastic team led by highly competent scholars shooting up its capacity in all aspects of engineering research and consulting jobs. The management board formulate the guidelines, plans and policies of the company. The company has a Managing Director who will be responsible for all the implementation of the board directions, technical, administrative and financial managements. **IERC** has a good network to share the skills and expertise with national and international organizations. The members of the company are mostly young competent and result oriented professionals dedicated to their profession. Its team members have wide range of experience in the field of earthquake, structural, hydropower, geotechnical and environmental engineering.

➤ Board of Directors

1	Shyam Thapa	Chairman	M. Sc. in Structural Engineering
2	Rishi Ram Parajuli	Managing Director	Ph. D. in Structural and Earthquake Engineering
3	Tilak Raj Bhattarai	Director	M.Sc. in Hydropower Engineering

Shyam Thapa is a Civil engineer specialized in Structural Engineering with particular expertise in Structural Design & Maintenance of Buildings (Residential, Commercial, and Tall Buildings) & Bridges (Footbridge, Motorway Bridge & Railway Bridge), Analysis and Design of Hydraulic Structures (Weir, Settling Basin, Piers,

Thrust Blocks, and Powerhouse). He is currently working as a Project Engineer for Highways Maintenance (Design for carriageway resurfacing, reconstruction, footway reconstruction and reinstatement, vehicle crossings) and drainage work in a Council of London, UK. He has work experiences in Nepal, Qatar and UK. He has participated in many Civil, Structural and Highways Engineering trainings and seminars. He holds B.E. (Civil Engineering) and M. Sc. in Structural Engineering Degrees from Tribhuvan University in Nepal. He is also a member of the Institution of Engineers in Nepal, and UK. He is also the Structural Engineer Member in Nepal & UK. Shyam Thapa has confirmed that he is ready to spare his more time when IERC will have the job related to his expertise.

Rishi Ram Parajuli has been working as Managing Director since April, 2017. He has not only the technical and research competency but also the experience of managing the consulting firm. He has expertise on design of civil engineering structures, Seismic performance analysis and retrofitting design of low strength masonry and RC structures. He is also doing research in seismic risk, seismic hazard study along with seismic design of structures. He published several research papers in international journals, had attended several national and international conferences, seminars related to structural and earthquake engineering and also actively participated on volunteer activities. He holds Diploma and Bachelor's degree in civil engineering from Tribhuvan University Nepal. Later he studied Masters and PhD in Structural and Earthquake Engineering from Kyoto University, Japan under the Japanese Government (MEXT) scholarship. He had graduated PhD on March, 2017 before taking the position of managing director of the IERC. He is a member of the institution of engineers in Japan and Nepal.

Tilak Raj Bhattarai is a civil engineer with particular expertise in the preparation of feasibility studies, tender design and construction supervision for hydropower projects. He holds a B.Sc. (civil engineering) from Tribhuvan University in Nepal and a Masters in Hydraulic Schemes from the Federal Institute of Technology, Switzerland. He is also a member of the Institution of Engineers in Nepal, Papua New Guinea and Australia. Tilak Bhattarai has carried out the hydraulic analysis and design of many hydraulic structures, tunnels and pipelines and is proficient in undertaking complete

feasibility studies, tender designs and construction management for small to medium scale hydropower projects.

➤ **Field of works**

✚ Consulting

- ✓ Concept and design of civil infrastructures
- ✓ Design of earthquake resistant structures
- ✓ Seismic performance analysis and retrofitting design of structures
- ✓ Heritage preservation works
- ✓ Urban and regional planning
- ✓ Valuation and survey
- ✓ Nondestructive testing

✚ Research

- ✓ Seismic hazard assessment and risk analysis
- ✓ Disaster risk management and mitigation
- ✓ Development policy research

Projects

➤ **Completed**

✚ Consulting

Since the establishment of the firm it has completed several jobs on heritage and low strength masonry structures. Especially focused on the preservation work plan, analysis and retrofitting design with Department of Archeology. Similarly, IERC had also involved in study of hydropower projects.

- ❖ Documentation of several Heritage structures in different districts all over Nepal
- ❖ Field study, structural survey and analysis with preservation plan of several temples and satals
- ❖ Seismic performance analysis and retrofitting design of several structures
- ❖ Prefeasibility study of Champawati Hydropower, Gorkha/Lamjung (7.0 MW)
- ❖ Prefeasibility study of Syarkyukhola Hydropower, Manang (3.0 MW)

✚ Research

IERC and its members conducted research, mainly in seismic hazard assessment and risk analysis.

- ❖ Research and study on Seismic performance of masonry building, seismic hazard, risk analysis and design ground motion simulation



Current

Consulting

Currently we are working on the following consulting jobs.

- ❖ Seismic performance analysis and retrofitting design of several masonry structures
- ❖ Feasibility and environmental study of Champawati hydropower project (7.0 MW)
- ❖ Seismic Design of RC framed structures
- ❖ Survey and design of bridges

Research

Earthquake Engineering

- ❖ Update on seismic hazard map of Himalayan region
- ❖ Damage assessment in earthquakes
- ❖ Ground motion simulation for Himalayan region.
- ❖ Loss estimation in future earthquakes

Building and structural engineering

- ❖ Development of earthquake resistant technology using indigenous materials
- ❖ Strengthening and retrofitting of low strength masonry structures
- ❖ Vernacular structures in Himalayan region
- ❖ Lightweight materials
- ❖ Retrofitting techniques for heritage structures
- ❖

Policy and Planning

- ❖ Development policy for developing countries

Library

- Data
- Publications

Events

Contact us

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(Please embed google map:

<https://www.google.com.np/maps/place/IERC/@27.7348925,85.2858677,21z/data=!4m2!1m6!3m5!1s0x39eb18bbbd61c469:0x2e816cc106b8e947!2sIERC!8m2!3d27.7349783!4d85.2859211!3m4!1s0x39eb18bbbd61c469:0x2e816cc106b8e947!8m2!3d27.7349783!4d85.2859211?hl=en>)