# UTSAV ADHIKARI

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Australian Permanent Resident | Available for immediate start | Darwin, NT, 0800

**Summary**

Electrical Engineer (BE, MSc) with experience delivering infrastructure projects within a government utility environment. Proven capability in planning, design coordination, stakeholder engagement, tendering, and construction oversight across transmission and substation projects of 132-400 kV.

Strong understanding of multi-disciplinary infrastructure systems, including electrical (HV/LV), and experienced in working with consultants, contractors, and government stakeholders to deliver projects from feasibility through to construction and commissioning, ensuring compliance with technical standards, safety, and regulatory requirements.

Currently based in Darwin seeking to contribute to energy, utilities, or infrastructure projects across the Northern Territory, including regional and remote delivery.

**Key skills**

**Technical Skills**

- Electrical infrastructure (HV/LV systems, substation)
- Exposure to integrated infrastructure environments (utilities coordination)
- HV Equipment Selection & Specification.

**Project Engineering & Delivery Skills**

- Project planning, scheduling and reporting (EPC environments)
- Feasibility studies and Detailed Project Reports (DPR)
- Procurement, Cost Estimation, Scheduling.

**Standards & Tools**

- IEC / IEEE Standards
- MS Word, Excel (Project tracking and reporting)
- AutoCAD, MATLAB, C Programming, Object Oriented Programming (C++).

**Professional Skills**

- Stakeholder and contract management
- HSE (Health, Safety & Environment) compliance
- Risk identification & mitigation.

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## Professional Experience

♦ **Electrical Engineer** (Oct 2016 – Dec 2025)

***Nepal Electricity Authority (Government utility)***

- Delivered feasibility Study of Ratmate-Rasuwagadhi-Kerung 400 kV cross-border transmission line project (Nepal-China Power Grid Interconnection) including route alignment, tower spotting, and cost estimation (USD 14.47 million), contributing to development of a bankable Detailed Project Report (DPR).
- Coordinated Environmental Impact Assessment (EIA), liaising with consultants, local stakeholders and regulatory bodies to ensure compliance with regulatory and environment standards.
- Supported planning and execution of 220 kV substation bay extension at Chilime 220/132 kV substation, coordinating stakeholders and contributing to improved grid capacity and reliability for regional grid integration.
- Contributed to the engineering design and layout of 33/11 kV distribution substation expansion, including equipment selected for integration with existing infrastructure and compliance with IEC standards.
- Monitored project budget, progress, assisting in tracking timelines, risks, and deliverables to support on-time project delivery maintaining strong focus on safety and quality assurance.
- Contributed to preparation of technical specifications, scope documentation, and tender inputs.
- Liaised with government agencies, regulatory bodies, local authorities, and community stakeholders throughout various phases of project planning, approval, and implementation.
- Coordinated with the State Grid Corporation of China (SGCC) to support effective project implementation. Participated in China-Nepal Joint Technical Group (JTG) meetings as a member and presented crucial aspects like route alignment, project timelines, regulatory standards, and

joint action plans for the seamless implementation of the grid interconnection.

♦ **Electrical Engineer**

***Trade Link International Pvt. Ltd.*** (May 2014 - Sep 2014)

- Coordinated import, supply, and installation of HV electromechanical equipment.
- Supported contract administration, progress reporting, and schedule tracking of project.
- Ensured compliance with project scope, timelines, and technical requirements.

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## Education

♦ **Master of Electrical Engineering (Distributed Generation)**

***Tribhuvan University, Institute of Engineering,***

Pashchimanchal Campus, Pokhara, Nepal

2015- 2019

♦ **Bachelor of Electrical Engineering**

***Tribhuvan University, Institute of Engineering***,

Kathmandu Engineering College, Kathmandu, Nepal

2009- 2013

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## Key Project Experience

- 400 kV Transmission Line Project - Feasibility, route alignment, estimation.
- 220 kV Substation Bay Extension - Planning & execution support.
- 33/11 kV Substation Expansion - Design and integration.

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## Professional Credentials

- Engineers Australia Skills Assessment - Electrical Engineer (ANZSCO 233311).
- Registered Engineer - Nepal Engineering Council (Reg. No .1315, Electrical 'A' Category).
- Life Member – Nepal Engineers' Association (Reg. No. 21439)

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**Licenses / Eligibility**

- Australian Permanent Resident (Subclass 190) - Full Work Rights.
- Reliable vehicle with Australian Driver's Licence (Class C).
- NT General Construction Induction Training Card (White Card).
- First Aid and CPR certified (HLTAID011).

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**Trainings / Participations**

- Conducted Factory Acceptance Test (FAT) of the 12kV VCB Switchgear Panels to be installed at Syangja & Damauli S/S under Pokhara Grid Division, Transmission Directorate, NEA. The inspection was carried out at the Factory of Pascal Switchcare India Pvt. Ltd. at Kolkata, West Bengal from 15 to 19 September, 2024 ensuring the panels met quality benchmarks before shipment.
- Successfully completed the Factory Acceptance Test (FAT) inspection of Mehru Electrical & Mechanical Engineers (P) Ltd., Bhiwadi, Rajasthan, India for the 245 kV Instrument Transformers manufactured for Koshi Corridor 220 kV TL Project (KC-4) from 5 to 9 November, 2023 according to the Quality Assurance Plan (QAP).
- Seminar on Mechanical and Electrical Industry Promotion and Economic Development for Developing Countries: Academy for International Business Officials, Ministry of Commerce, People's Republic of China (Beijing, China: 26/02/2025-12/03/2025)
- Seminar on Power Management and Interconnection Technology for Belt and Road Countries: National Research Institute for Rural Electrification,

Ministry of Water Resources, People's Republic of China (Beijing, China: 06/04/2023-19/04/2023)

- Paper presentation "Status of Renewable Energy in Nepal" for the Seminar on Solar and Wind Energy Application for BRI Countries, Gansu Natural Energy Research Institute**,** Ministry of Commerce, People's Republic of China (Beijing, China: 2023)
- 'Public Procurement and e-GP System Training' organised by Government of Nepal - Public Procurement and Monitoring Office & NEA - Training Management Department from 2025-04-16 to 2025-04-22 AD at Keshar Mahal, Kathmandu.
- Training on Advanced Excel: NEA Training Centre - Bhaktapur, Nepal (2024-07-10 to 2024-07-14)
- Training on AutoCAD (2D): NEA Training Centre - Bhaktapur, Nepal (31 Dec 201 to 09 Jan 2019)
- Training on MATLAB & Simulation: Pashchimanchal Campus, Institute of Engineering, TU - Pokhara, Nepal (26 Dec 2016 to 5 Jan 2017)

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**Academic Projects**

- Paper Presentation at seventh IOE Graduate Conference, (December, 2019).

  http://conference.ioe.edu.np/publications/ioegc2019-winter/IOEGC-2019-Winter-04.pdf
- Post-graduate Thesis on "Battery Energy Storage System Optimization for Grid-Connected Wind-PV Hybrid System."
- Post-graduate Project on "Compensation of Impacts of Distributed Generation Using Smart Grid Technology."
- Under-graduate final year project on "Detection of Harmonics and Total Harmonic Distortion using Microcontroller."

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**References** (Available upon request.)


- Er. Komal Nath Atreya
  Project Manager,
  Ratmate-Rasuwagadhi-Kerung 400 kV Transmission Line Project, NEA
  komalatreya@gmail.com, +977-9841390193
- Er. Krishna Dev Prasad Sah
  Senior Electrical Engineer,
  Ratmate-Rasuwagadhi-Kerung 400 kV Transmission Line Project, NEA
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- Er. Suman Budhathoki
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- Assoc. Prof. Er. Bhrigu Raj Bhattarai
  Thesis Supervisor, MSc in Distributed Generation
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