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Kalpabrikshya Engineering Solutions Pvt. Ltd.

Motto: *Leading with excellence, Rising with vision*

Location: Putalisadak, Kathmandu, Nepal

Contact: +977-9851328965, +977-9851444045

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About Us

Kalpabrikshya Engineering Solutions Pvt. Ltd. is a Nepal-based professional engineering consultancy firm committed to delivering technically sound, sustainable, and future-ready solutions. Rooted in strong engineering ethics and driven by innovation, we specialize in the energy sector with a primary focus on hydropower and solar energy development.

Established with the vision of positioning Nepal as a global hub for engineering excellence, Kalpabrikshya Engineering Solutions combines local expertise with international best practices. Our multidisciplinary team provides end-to-end consulting services—from feasibility studies and design to implementation support and technical review—ensuring reliability, efficiency, and regulatory compliance.

Message from the Managing Director

Manoj Bhattarai

Founder & Managing Director

At Kalpabrikshya Engineering Solutions, our journey began with a clear purpose: to contribute meaningfully to Nepal's infrastructure and energy development while building a consultancy capable of competing at the international level.

Nepal holds immense potential in hydropower and renewable energy. Our responsibility as engineers is not only to harness this potential but to do so with technical excellence,

environmental responsibility, and long-term vision. We believe that quality engineering, backed by research and innovation, is the foundation for sustainable development.

With our head office in Kathmandu, our long-term goal is to expand globally by establishing international branches and collaborative partnerships. Through continuous learning, selective research funding, and adherence to global standards, we aim to elevate Nepali engineering consultancy onto the world stage.

I warmly invite clients, partners, and young researchers to join us in this journey of growth, innovation, and excellence.

Our Vision

To become a leading international engineering consultancy firm, with Nepal as the central hub, delivering innovative, sustainable, and world-class engineering solutions.

Our Mission

- To provide high-quality engineering consultancy services aligned with national and international standards
 - To support Nepal's renewable energy growth through technically robust and sustainable solutions
 - To promote research, innovation, and knowledge development in engineering
 - To expand globally while retaining strong Nepali engineering identity and values
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Core Areas of Expertise

Hydropower Engineering

- Project identification and screening studies
- Pre-feasibility and feasibility studies
- Hydrological analysis and hydraulic design
- Headrace tunnel, penstock, and powerhouse design
- Electromechanical coordination support
- Construction supervision and technical audit
- Pre-commissioning and commissioning support

Solar Energy Systems

- Solar resource assessment
- Grid-connected and off-grid solar PV system design

- Hybrid renewable energy solutions
- Technical due diligence and performance evaluation

Energy Sector Consulting

- Renewable energy planning and policy support
- Power evacuation and grid interconnection studies
- Energy project documentation for regulatory approvals
- Technical advisory for investors and developers

Geology & Geotechnical Studies

- Engineering geological mapping
- Subsurface investigation planning and interpretation
- Rock mass classification and slope stability analysis
- Foundation assessment for hydraulic structures

Hydrology & Hydraulic Design

- Catchment assessment and hydrological modeling
- Flood estimation and design flood analysis
- River training and intake structure design
- Sediment analysis and mitigation planning

Research & Innovation Support

Kalpabrikshya Engineering Solutions strongly believes that research is the backbone of engineering advancement. As part of our commitment to knowledge development, the company selectively sponsors and funds research proposals in the fields of:

- Renewable energy and hydropower optimization
- Climate-resilient infrastructure design
- Advanced hydrology and sediment management
- Sustainable engineering practices

Research proposals are evaluated based on technical merit, innovation, practical applicability, and potential impact. Through this initiative, we aim to support young engineers, researchers, and academic–industry collaboration.

Why Choose Us

- Strong specialization in hydropower and renewable energy
 - Technically rigorous and standards-compliant approach
 - Local knowledge combined with international outlook
 - Commitment to research, innovation, and capacity building
 - Clear long-term vision for global consultancy presence
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Our Long-Term Goal

With Nepal as our headquarters, Kalpabrikshya Engineering Solutions aims to expand its consulting services internationally by establishing branch offices, strategic partnerships, and collaborative research platforms across Asia, Africa, and other emerging markets. Our objective is to represent Nepali engineering expertise with pride and professionalism on the global stage.

Contact Us

For consulting services, partnerships, or research collaboration:

Kalpabrikshya Engineering Solutions Pvt. Ltd.

Putalisadak, Kathmandu, Nepal

☎ +977-9851328965 | +977-9851444045

✉ nexus@consultkes.com

Website Menu Structure & Detailed Content

1. Home

Purpose: First impression, credibility, and clear positioning

Key Sections:

- Hero Section:
Leading with excellence, Rising with vision
Renewable Energy & Engineering Consultancy from Nepal to the World
- Brief Introduction (3–4 lines about KES)
- Core Expertise Highlights:
 - Hydropower Engineering
 - Solar Energy Systems

- Geology & Geotechnical Studies
 - Hydrology & Hydraulic Design
 - Why Choose Us (icons/short bullets)
 - Vision for Global Expansion (1 short paragraph)
 - Call to Action:
 - “Consult with Us”
 - “Partner with Us”
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2. About Us

Purpose: Build trust and communicate long-term vision

2.1 Company Overview

Kalpabrikshya Engineering Solutions Pvt. Ltd. is a professional engineering consultancy firm headquartered in Kathmandu, Nepal, delivering specialized services in renewable energy and infrastructure engineering.

2.2 Vision & Mission

(As defined earlier – can be shown with icons)

2.3 Core Values

- Engineering Excellence
- Integrity & Professional Ethics
- Sustainability & Environmental Responsibility
- Innovation through Research
- Global Collaboration

2.4 Managing Director’s Message

(Full MD message already provided – place here)

3. Services

Purpose: Clearly show technical capability

3.1 Energy Sector Consulting

- Renewable energy project planning

- Power evacuation & grid interconnection studies
- Technical documentation for NEA, DoED, and regulatory bodies
- Owner's engineer & technical advisory services

3.2 Hydropower Engineering

- Project identification & screening
- Pre-feasibility & feasibility studies
- Hydrology and hydraulic design
- Headworks, waterways & powerhouse design
- Construction supervision & technical audit
- Pre-commissioning & commissioning support

3.3 Solar Energy Systems

- Solar resource assessment
- Grid-connected solar PV design
- Off-grid & hybrid solar systems
- Performance analysis & technical due diligence

3.4 Geology & Geotechnical Studies

- Engineering geological mapping
- Subsurface investigation interpretation
- Rock mass classification
- Slope stability & foundation assessment

3.5 Hydrology & Hydraulic Design

- Catchment & rainfall analysis
- Flood estimation & design flood calculation
- Intake, spillway & river training design
- Sediment transport & mitigation planning

4. Research & Innovation

Purpose: Differentiate company from typical consultancies

4.1 Research Philosophy

Kalpabrikshya Engineering Solutions believes that strong research leads to resilient and future-ready engineering solutions.

4.2 Research Funding Program

The company selectively sponsors research proposals in:

- Hydropower optimization and efficiency
- Climate-resilient infrastructure
- Advanced hydrological modeling
- Sediment and flood management

4.3 Proposal Submission

- Open to engineers, researchers, and academic institutions
 - Proposals evaluated on innovation, feasibility, and impact
 - Selected proposals receive technical and financial support
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5. Projects & Experience

Purpose: Demonstrate technical credibility and real project involvement

Kalpabrikshya Engineering Solutions Pvt. Ltd. is actively involved in multiple hydropower projects in Nepal, providing end-to-end technical leadership and consultancy services. Our role spans from planning and design to construction-stage support, ensuring compliance with regulatory standards and engineering best practices.

5.1 Ongoing Hydropower Projects

Upper Khadam Khola Small Hydropower Project – 990 kW

Client: Abiral Hydropower Company Limited

Role: Lead Technical Consultant

Scope of Services:

- Hydrological and hydraulic design
- Review and coordination of civil and electro-mechanical components
- Power evacuation and grid interconnection support
- Pre-commissioning and technical documentation

Super Khadam Khola Small Hydropower Project – 814 kW

Client: Abiral Hydropower Company Limited

Role: Lead Technical Consultant

Scope of Services:

- Detailed engineering design support
- Hydrology and flood analysis

- Technical coordination during construction stage

Lower Khadam Khola Small Hydropower Project – 935 kW

Client: Unity Power Plus Pvt. Ltd.

Role: Technical Consultant

Scope of Services:

- Feasibility review and design verification
- Hydraulic structures and waterway assessment
- Regulatory and approval documentation support

Ultimate Khadam Khola Small Hydropower Project – 998 kW

Client: Ultimate Hydropower Company Pvt. Ltd.

Role: Lead Technical Consultant

Scope of Services:

- Comprehensive hydropower engineering consultancy
- Hydrology, hydraulics, and sediment analysis
- Pre-commissioning technical support

Note: Detailed project profiles can be provided upon request due to client confidentiality.

6. Careers & Collaboration

Purpose: Attract talent and partners

- Career opportunities for engineers and geologists
 - Internship & graduate engineer programs
 - Research collaboration with universities
 - International consulting partnerships
-

7. Global Vision

Purpose: Communicate international ambition

With Nepal as its head office, Kalpabrikshya Engineering Solutions aims to expand internationally through branch offices and strategic partnerships, positioning Nepali engineering expertise in global markets.

8. Contact Us

Purpose: Easy communication

- Office Address: Putalisadak, Kathmandu, Nepal
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- Email: nexus@consultkes.com
- Inquiry Form (Name | Email | Service | Message)