



**WATER ASIA INTERNATIONAL**

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1999



# COMPANY PROFILE

WATER ASIA INTERNATIONAL

“Sustainable Solutions - Lasting Impact.”



WATER RESOURCES  
& HYDROLOGY



ENERGY



TRANSPORT



CLIMATE CHANGE  
& DISASTER RISK  
MANAGEMENT



PUBLIC FINANCE  
& ECONOMICS



URBAN  
INFRASTRUCTURE



ENVIRONMENT &  
SOCIAL DEVELOPMENT




AGRICULTURE &  
RURAL DEVELOPMENT



ICT & DIGITAL  
SOLUTIONS

**Engineering  
Resilience.  
Advancing  
Sustainability.  
Delivering  
Impact.**

NEPAL | INDIA | BANGLADESH | BHUTAN | PAKISTAN | THAILAND | VIETNAM | CAMBODIA | LAOS | PHILIPPINES | JAPAN

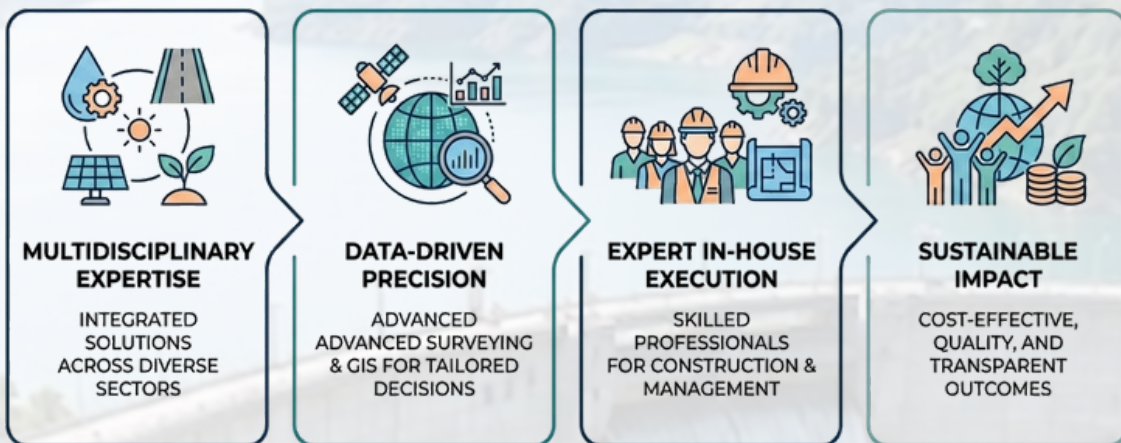
 [www.wainepal.com](http://www.wainepal.com)

# ABOUT WAI

**Water Asia International (WAI), Nepal** is a leading multidisciplinary consulting firm, renowned for its comprehensive approach to delivering innovative and sustainable solutions across diverse sectors. Since its establishment in 1999, WAI has been a pioneer in offering a broad spectrum of services, including design, construction supervision, monitoring, surveying, project management, strategic planning, community engagement, and effective communication of risk and information solutions.

With a growing global presence, WAI continues to reinforce its commitment to providing world-class consulting services on an international scale.

## DELIVERING INNOVATIVE & SUSTAINABLE SOLUTIONS



In addition to its core expertise, WAI is deeply involved in climate change adaptation, education, environmental conservation, Climate Vulnerability and Risk Assessment (VRA), flood risk assessment, flood modeling, agricultural development, child and gender protection, climate finance, Public finance management, Public Expenditure and Financial Accountability and design and implementation of waterways, roads, and infrastructure projects. The firm excels in leveraging advanced surveying techniques and geographic information systems (GIS), ensuring data-driven precision in delivering tailored solutions.

A hallmark of WAI's success is its team of highly skilled in-house engineering professionals, adept at managing both construction and post-construction activities. This ensures the highest standards of design precision, quality construction, and efficient project execution, delivered transparently and within budget. By integrating innovative methodologies and emphasizing cost-effectiveness.

# MESSAGE FROM THE MANAGING DIRECTOR

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At Water Asia International Pvt. Ltd., we are strategically transforming from a primarily service-oriented firm into a dynamic, market-driven organization. By expanding our client base across the southeastern region and beyond, we aspire to position WAI as a preferred partner for high-quality engineering solutions and development consulting services.

Guided by our core values and long-term vision, we are committed to fostering sustainable growth and inclusive development across a wide range of sectors. Our work spans climate change adaptation and protection, environmental conservation, climate and disaster risk management, flood risk assessment and hydraulic modeling, climate finance, child protection, energy and hydropower, agriculture and irrigation, health and environmental sanitation, education, capacity building and training, public finance management, governance, social and community development, urban infrastructure, information technology, water and natural resource management, and road and transportation infrastructure.

Our strength lies in the depth of our technical expertise, our multidisciplinary team, and our collaborative approach to problem-solving. We address complex development challenges through innovative, practical, and impact-oriented solutions. Our success is built on the trust and confidence of our clients, the dedication of our professionals, and the strong partnerships we cultivate.



**Managing Director - Nischeet Kumar Maharjan**

# Mission

WAI is committed to delivering exceptional professional engineering services and development consulting that enrich the communities where our clients live and operate.

## Vision

Our vision is to evolve from an internally service-focused organization into an externally market-driven firm. We aim to expand our customer base across the southeastern region and establish ourselves as the preferred choice for engineering solutions. By upholding our corporate principles, we strive to safeguard our fiscal health, organizational resilience, and long-term growth.

## Values

**Clients:** We are dedicated to fostering lasting partnerships built on trust, transparency, clear communication, and cost-effective service delivery.  
**Employees:** Our people are the foundation of our success. We cultivate an environment that encourages growth, innovation, collaboration, and excellence.  
**Quality:** Our reputation stems from delivering technically proficient and detail-oriented services. We consistently train our team to maintain and exceed quality standards.  
**Service:** We persistently train our staff to uphold quality standards



# ORGANIGATIONAL STRUCTURE

Under the strategic leadership of our Managing Director and core sector specialists, WAI operates through a highly efficient, client-focused framework. We seamlessly integrate international best practices with deep local knowledge to plan, manage, and execute complex development initiatives across our regional footprint.

Supported by a dynamic roster of highly qualified specialists and a strong network of international associates, our organizational structure is designed for agility and scale. This positioning allows us to quickly deploy targeted technical expertise, maintain strict quality assurance, and deliver measurable outcomes for assignments of varying complexity.

Our Capacity:

- Full-Time Staff (Technical & Non-Technical): 100+
- Total Staff Network: 200+





# SECTORS

# SECTORS WE SERVE



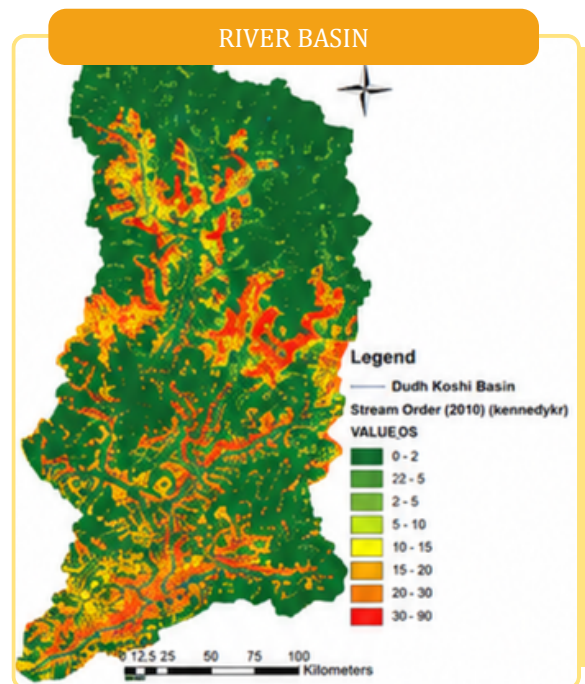
We are committed to driving transformative initiatives that deliver meaningful outcomes while laying the ground work for regional expansion. Our core team of experts, supported by dedicated project analysts, is instrumental in the initiation and management of operational frameworks. This ensures seamless and efficient project implementation, directly supporting our client's mission to foster sustainable development and drive long-term progress.

## 01. Water Resources and Hydrology:



### The Study of Water Induced Disaster Risk in Hydropower System in Nepal (Dudh Koshi Sub-basin)

The study focuses on assessing water-induced disaster risks in the Dudh Koshi Sub-basin, particularly their impact on hydropower infrastructure. Covering the Solukhumbu and Okhaldhunga districts, this region is highly vulnerable to geohazards such as Glacial Lake Outburst Floods (GLOFs), flash floods, and landslides due to its steep terrain and extreme climatic events. The project involves analyzing past disaster events, reviewing policies and international standards, and assessing the risks associated with hydropower projects. Key hydropower infrastructure, including the Solu Khola (Dudh Koshi) Hydroelectric Project, will be evaluated for disaster preparedness. The study aims to provide recommendations for improving risk management at various stages of hydropower development, including planning, design, construction, and operation, ensuring the long-term sustainability of Nepal's hydropower sector.



### Bagmati River Basin Improvement Project (BRBIP) ADB Loan NO. 3057-NEP (SF)/ Grant No. 0367-NEP (SF)

The Bagmati River Basin Improvement Project (BRBIP) was designed to restore the river environment in Kathmandu Valley while mitigating water-induced disasters in the middle and lower reaches of the basin. As Nepal's first initiative to apply the principles of integrated water resources management (IWRM) under the 2005 national water plan, the project aimed to enhance water security, improve river health, and strengthen flood management. Key objectives included establishing systems and capacity for participatory river basin management, developing a Decision Support System (DSS), enhancing Flood Forecasting and Early Warning Systems (FF-EWS), improving water quality monitoring, and preparing a 20-year Integrated Water Resources Development Master Plan (IWRDMP). Through these components, the project advanced sustainable water resource management and climate resilience in the Bagmati Basin.



### Hydro-Meteorological Network Design and cost estimate for Flood Forecasting and Early Warning System (FFEWS) at Melamchi

The Department of Hydrology and Meteorology (DHM), under the Ministry of Energy, Water Resources and Irrigation, is Nepal’s authorized agency for hydro-meteorological data collection and dissemination, as well as providing meteorological and flood forecasts. To strengthen disaster preparedness, DHM has been developing Flood Forecasting and Early Warning Systems (FFEWS) in major rivers, including Koshi, West Rapti, and Bagmati. In response to the devastating June 2021 flood in the Melamchi River, which caused significant loss of life and damage to infrastructure due to landslides and a temporary landslide dam burst, DHM initiated the design of an FFEWS for the Melamchi basin. The project aimed to establish a robust hydro-meteorological network with real-time rainfall and hydrological stations, enabling timely flood forecasting and warnings. By integrating risk assessments, flood mapping, and community-focused preparedness measures, the initiative sought to minimize future disaster impacts and enhance resilience in one of Nepal’s most vulnerable river basins.



### Preparing the Greater Mekong Sub-region (GMS) Flood and Drought Risk Management and Mitigation Project (ADB TA 6456-REG)

*VisionRI Connexion Services Private Limited, India*

The ADB TA 6456-REG: Preparing the Greater Mekong Sub-region (GMS) Flood and Drought Risk Management and Mitigation Project was a regional technical assistance program designed to strengthen resilience against floods and droughts in Thailand, Cambodia, Laos, and Vietnam. Implemented between May 2012 and March 2014, the project focused on developing national and regional roadmaps, identifying and prioritizing flood and drought issues, and preparing investment programs for structural and non-structural interventions. It included feasibility studies for flood control, irrigation, and infrastructure projects, with specific work in Vientiane, Laos, where flood damages along the Mekong River were reviewed and flood control measures such as dikes, sluice gates, and cross-drain structures were designed. The project combined technical due diligence, investment planning, and regional cooperation to deliver a comprehensive framework for flood and drought risk management and mitigation across the Mekong region.



### Preparation of River Basin Plans and Hydropower Development Master Plans and Strategic Environmental and Social Assessment Project (World Bank Credit No 4515-NP; H902-NP for IWRMP and Grant No. TF18570-NP for PSRSHDP)



The project's central objectives encompass the formulation of river basin plans and hydropower development master plans, integrating strategic environmental and social assessments for the entire nation. It explores alternative scenarios for water use and potential developments, emphasizing sustainability, economic viability, and technical feasibility, particularly in areas vital for agriculture. Adopting an Integrated Water Resources Management (IWRM) approach, the project recommends the most suitable scenarios for water resource development and planning, aligning with the agricultural sector’s needs at sub-basin, basin, and national levels. Furthermore, it conducts assessments of past flood damage and inundation areas caused by rivers, considering their impact on agriculture and the environment.

## 02. Transport :



### Consultancy Services for Road Management Firm Technical Assistance Ref No.: MCA-N/RMP/QCBS/018

*FINNOC – Lead/ GEC – Sub-consultant/ WAI – Sub-consultant*

The Millennium Challenge Corporation (MCC) and the Government of Nepal established a Compact to fund the Electricity Transmission Project (ETP) and the Road Maintenance Project (RMP). Under the RMP, this project provided Technical Assistance (TA) to the Department of Roads (DoR) and Roads Board Nepal (RBN) to improve road maintenance planning, assessment, and implementation across the Strategic Road Network (SRN). The primary objective was to maintain road quality, avoid early pavement deterioration, and reduce vehicle operating costs through evidence-based maintenance strategies and improved data collection.

CONTRACT NEGOTIATION



MEETING WITH MCA-SOCIAL TEAM



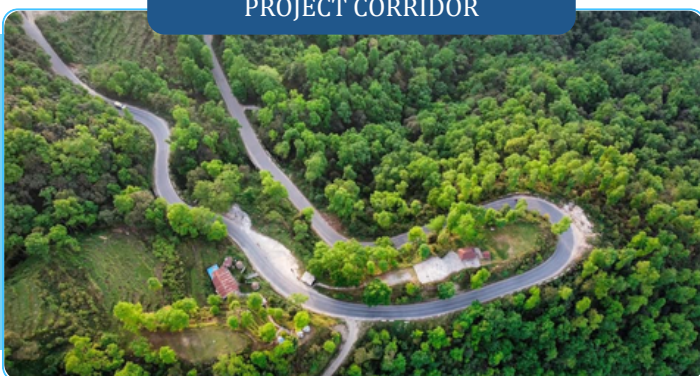
The project outputs focused on delivering an independently calibrated HDM-4 pavement deterioration model, establishing improved road data collection techniques, and developing a comprehensive Pavement Preservation and Rehabilitation Manual. Furthermore, the project focused on integrating new, climate-resilient pavement technologies, specifically Full Depth Reclamation (FDR), Superpave mix design, and asphalt milling into Nepal’s institutional framework. Crucially, these technical outputs were designed to feed directly into and modernize DoR’s Road Asset Management System (RAMS) and Highway Management Information System (HMIS). By integrating advanced data collection, automated traffic analytics, and HDM-4 modeling outputs into the RAMS framework, the project enabled the formulation of data-driven, multi-year maintenance plans driven by life-cycle cost analysis and economic justification.



### Environmental and Social Planning Framework Consultancy - Siddhartha Highway(Butwal-Pokhara Section) - AIIB

The Siddhartha Highway Improvement Project (Butwal–Pokhara section) is a key infrastructure initiative by the Government of Nepal to upgrade approximately 130 km of highway through hilly terrain, enhancing regional connectivity and economic growth. Supported by the Asian Infrastructure Investment Bank (AIIB), the project aims to transform the corridor into a climate-resilient, safe, and green highway using a mix of in-situ widening and new alignments, including tunnels and bridges.

PROJECT CORRIDOR



STAKEHOLDER CONSULTATION



To ensure sustainable development, an Environmental and Social Management Planning Framework (ESMPF) and related documents—such as the SEP, LMP, LARPF, IPPF (if needed), GAP, and ESAP—will be prepared in line with Nepal’s legal requirements and AIIB’s Environmental and Social Framework. The project adopts a "Green and Road Plus Corridor" approach, integrating climate resilience, road safety, stakeholder inclusion, and environmental protection. Qualified consultants will support the preparation of these frameworks, helping shape a responsible and inclusive infrastructure project.



**ADB Loan No. 4316 NEP: South Asia Sub-Regional Economic Cooperation (SASEC) Highway Enhancement Project (SHEP) – Construction Supervision of Kakarbhitta-Laukahi Road**

*JV of M/S MG Consultants (Pvt.) Limited, Sri Lanka; Roughton International Ltd., UK, and YUKSEL PROJE A.S., Turkey*

The project upgrades 120 km of the East-West Highway between Kakarbhitta and Laukahi to a four-lane highway, including six major bridges. It aims to improve national and regional connectivity, support sustainable cities, and align with Nepal’s Five-Year Strategic Plan. Key features include improved traffic flow, road safety, and social/environmental safeguards like biodiversity conservation, gender equality, and awareness programs on HIV/AIDS and human trafficking. Consulting services involve supervising civil works, ensuring design compliance, quality assurance, environmental and social safeguard management, and monitoring worker safety. The project also includes capacity building for the Department of Roads (DOR) and Ministry of Physical Infrastructure and Transport (MoPIT) personnel.

**Asphalt Plant Installation at KL03, Bio-engineering works at KL02**

The Asphalt Plant was installed at KL03 to produce high-quality asphalt mixes, ensuring durable pavement layers and smoother traffic flow along the Kakarbhitta–Laukahi highway. At KL02, bio-engineering works were carried out to stabilize slopes and control erosion through eco-friendly vegetation methods, enhancing safety and promoting environmental sustainability.

BRIDGE CONSTRUCTION SUPERVISION



ASPHALT PLANT INSTALLATION AT KL03



ENVIRONMENTAL MONITORING



### 03. Energy:



#### SASEC-Electricity transmission and Distribution Strengthening Project (ETDSP) [LOAN 4520-NEP]

*Nippon Koei Co Ltd, Tokyo, Japan - Lead / Colenco Ltd., Skopje, Macedonia. / Colenco Consulting Limited Nigeria / Nippon Koei, India Pvt. Ltd., India*

The Government of Nepal, acting through the Nepal Electricity Authority (NEA) and supported by the Asian Development Bank (ADB) alongside other developmental partners, initiated the SASEC-Electricity Transmission and Distribution System Strengthening Project (ETDSP). The primary objective of the ETDSP is to build a robust 220 kV and 400 kV East-West transmission backbone, facilitate the evacuation of bulk hydropower from generation hubs, enhance cross-border power trade readiness with India, and improve the reliability of distribution networks in underserved provinces, particularly in Karnali.



The project outputs focused on the design, engineering, and construction of 400kV/220kV/132kV transmission corridors, Gas Insulated Substations (GIS) and Air Insulated Substations (AIS), Loop-In-Loop-Out (LILO) infrastructure, and medium-voltage distribution systems across nine distinct EPC packages (P-1, P-2, P-3, P-4, P-5, P-7, P-8, P-9, and P-13). This specific assignment provided Project Implementation Consultant (PIC) services (Package C-1) to ensure comprehensive project management, technical design review, construction supervision, contract administration, and stringent environmental and social safeguards oversight across all nine packages, ultimately strengthening the Integrated Nepalese Power System (INPS).

#### TECHNICAL SUMMARY

**Transmission Lines** → 293.2 km of 400 kV, 220 kV and 132 kV transmission corridors

**Substation** → Construction of 5 GIS Substations ranging from 132 kV, 220 kV to 400 kV and Expansion (installation of Power Transformers) on 2 GIS Substations

**Transformer Capacity** → Aggregate transformation capacity exceeding 2,500 MVA

**Distribution Network** → Integrated 33 kV/11 kV medium-voltage distribution system reinforcement

## 04. Environment, Climate Change and Social Development/ GESI:



### TA-10172 REG: Building Adaptation and Resilience in the Hindu Kush Himalayas - Bhutan and Nepal - Climate and Disaster Risk Management Consulting Firm (57059-001)

*BGC Engineering USA Inc. in association with WAI and Geoinfra Research Institute Pvt. Ltd., Nepal*

The Hindu Kush Himalaya (HKH) region, home to the world’s largest ice reserves outside the polar areas, supports 1.9 billion people but is warming faster than average, risking major glacier loss, water stress, and extreme events. Economic losses from disasters in the HKH are significant, with recent floods and earthquakes causing extensive damage. The ADB’s Building Adaptation and Resilience initiative, launched at COP 28, aims to enhance climate and disaster resilience in Bhutan and Nepal through improved risk assessment, early warning systems, and innovative risk management strategies. Future phases may expand support and establish an HKH Regional Climate Hub for broader regional impact. The project will focus on river basins in three main outputs: Output 1 involves detailed multi-hazard risk assessments in four basins, Output 2 includes designing early warning systems (EWS) for three basins, and Output 3 covers risk advisory and climate investment services for two projects. Some preliminary work has been done to identify potential locations, but ADB will collaborate with the consulting firm to finalize them.

FIELD VISIT



PROJECT KICK-OFF MEETING



### The Study on Climate Impact Adaptation and Mitigation in Asian Coastal Mega Cities

*CTI Engineering International Co. Ltd., Tokyo, Japan*

ADAPTATION AND MITIGATION



Japan & the Philippines: The project aimed to address long-term mitigation and adaptation against global warming in Asian Coastal Mega Cities, particularly focusing on the impact of greenhouse gas emissions from industrialization. Key activities included determining design rainfalls, simulating high water levels in Metro Manila rivers under different climate change scenarios, reviewing past flood damages, and creating flood hazard maps using MIKE 11 GIS. This holistic approach provided valuable insights for developing resilient strategies in urban planning and climate adaptation.



## ADB TA-6977 REG: Strengthening Capacity to Design and Implement Climate Change Project Facility – CRLLP TA Consulting Firm (56105-001)

*FCG, Finland - Lead*

The Climate-Resilient Landscapes and Livelihoods Project aims to enhance community resilience in Karnali and Sudurpashchim provinces through disaster risk management (DRM) and Multi-Hazard Vulnerability and Adaptation Assessment. It will focus on small-scale catchment, water resources, and DRM infrastructure, applying nature-based solutions for climate hazard mitigation. The project, subject to concept clearance, will deliver three outputs: catchment management and DRM infrastructure, enhanced nature-based livelihoods, and strengthened capacities for climate change adaptation.

Targeting the most vulnerable watersheds and municipalities, the project aims to reduce climate change impacts on people and ecosystems through a spatial cluster approach.



## ADB-TA-6977 REG: Strengthening Capacity to Design and Implement Climate Resilience Projects Facility - NEP-CRCMIP -(56105-001)

ADB has supported Nepal since late 1980s in rehabilitation of old and damaged farmers-managed irrigation systems (FMIS). Those FMIS were constructed by farmers without engineering design and mostly having annually constructed temporary intake and earthen canal with high seepage loss. The irrigation sector projects included (i) rehabilitation of old systems with construction of permanent intake and lined canals and infrastructure to minimize seepage loss, (ii) institutional strengthening of farmers and formation of socially inclusive and gender sensitive water users association (WUAs) for taking responsibility of appropriate operation and maintenance of the system, (iii) capacity building of executing and implementing agencies for better project implementation and (iv) capacity building of farmers in improved agricultural practices. The outcome of the project was effective and popular among farmers and the government. The project started in late 1980 and is continuing with four projects in series (community-managed irrigated agriculture sector project-additional financing [CMIASP-AF] currently under implementation).

The Technical Assistance for the current project aims to align the Climate-Resilient Community Managed Irrigated Agriculture Project (CRCMIP) with government and ADB standards. It involves assessing ongoing projects like CMIASP-AF, studying reports from initiatives such as the Rajapur Irrigation Project (RIP) and Lift Irrigation Schemes, and recommending modifications to design and implementation. ADB has recruited international and national consultants for this task, emphasizing capacity development and Gender Equality and Social Inclusion (GESI) considerations throughout the process.

## 05. Economics, Public Finance & Climate Finance



### TA 58238-002 NEP: Green and Resilience Financing Facility Investment Program - Consulting firm for Design of Green and Resilience Financing Facility Investment Program

NIRAS – Lead/ AETS – Sub-consultant/ WAI – Sub-consultant

#### PROJECT INCEPTION MEETING



The GREFF is a large-scale, transformative program designed to address Nepal's climate vulnerabilities through strategic planning, financing mechanisms, and capacity development. It aims to create a financing facility offering grants, concessional loans, and guarantees to support climate adaptation projects. The program aligns with Nepal's National Adaptation Plan (NAP), Nationally Determined Contributions (NDC), and the GRID framework, aiming for systemic change through four key outputs: strengthened policy frameworks, finance-ready sub projects, accessible financing, and mobilization of future resources.



### TA-6971 BHU: Climate Finance Policy Expert (56010-001)

The project supported Bhutan's Ministry of Finance and Royal Monetary Authority in advancing climate finance through the development of an economy-wide green taxonomy framework. Building on Bhutan's National Adaptation Plan (NAP 2023), Long-Term Low Greenhouse Gas Emission and Climate Resilient Development Strategy (LTS), and Nationally Determined Contributions (NDC), the assignment focused on reviewing existing climate policies, conducting stakeholder consultations, and aligning the draft Sustainable Financing Framework with the proposed taxonomy. Through this work, WAI contributed to strengthening Bhutan's climate finance ecosystem and supporting initiatives such as the Bhutan Climate Fund, demonstrating our expertise in climate finance policy, strategic planning, and resilience-building across South Asia.



### Technical Assistance in Public Finance Management and EU Budget Support Programmes, FWC SIEA 2018 - LOT 5: Budget Support (SIEA-2018-14054)

Ecorys Consortium, The Netherlands - Lead / WAI – Sub-consultant

The EU is one of the major providers of support to the implementation of the IPFMRP, and an important proportion of EU aid will directly or indirectly promote the use of existing country systems through Budget Support. Within the Nepal Multi-annual Indicative Programme 2021-2027, the EU will provide budget support through programmes in agriculture and rural development (€ 40 million), education supporting the Nepal's School sector development plan (€61.4 million); support to federalism (€32,35 million) and nutrition (€32,35 million). Upcoming budget support programmes are expected for education and nutrition. The BS programmes will rely on PFM reform progress and are instrumental in setting incentives for reform and entering into policy dialogue with the Government of Nepal (GoN). It also emphasizes the importance of capacity development, including Gender Equality and Social Inclusion (GESI), as part of their support. The EU is also supporting other PFM- related programmes including (i) EU-UNICEF Public Finance for Children Technical Assistance Facility (PF4C), (ii) Improving synergies between social protection and Public Finance Management, and (iii) European Union Support to Inclusive Federalism (EUSIF).



### TA-10291 BAN: Economist project, Funded by the Asian Development Bank (ADB), Dhaka, Bangladesh.

As Bangladesh prepares to graduate from Least Developed Country (LDC) status in 2026, it faces challenges related to economic diversification, competitiveness, and resilience due to the loss of preferential trade benefits and concessional financing. Despite strong growth, the country remains reliant on the ready-made garments (RMG) sector, with limited expansion into higher-value industries. To support Bangladesh's transition, ADB is conducting a Country Diagnostic Study (CDS) to assess constraints and shape the 2027–2031 Country Partnership Strategy (CPS). The economist in this assignment will conduct an economic assessment, including growth analysis, sectoral decomposition, and benchmarking, to identify key economic weaknesses and policy recommendations. The study will analyze Bangladesh's economic structure, evaluate constraints to growth, and compare its performance against peer countries. The economist will also engage in stakeholder consultations, review reports on development partners, and utilize global datasets to provide insights into macro economic imbalances and structural challenges. The findings will help prioritize constraints and propose strategies to enhance economic resilience and diversification, ensuring sustainable growth beyond Bangladesh's LDC graduation.

#### STAKEHOLDER CONSULTATIONS



### TA-10151 NEP: Consulting Firm (55002-001) - Supporting Strengthening Public Financial Management and Devolved Service Delivery Program (TA NEP 55002)

*Ernst & Young LLP (EY) - Lead*

The Supporting Strengthening Public Financial Management and Devolved Service Delivery Program in Nepal, funded by the Asian Development Bank (ADB), aims to improve public financial management (PFM) at national and subnational levels. The project focuses on public expenditure, debt management, fiscal risk management, and resource planning to enhance governance and service delivery. With a \$200 million concessional loan across two subprograms (2023–2025), ADB also provides technical assistance, engaging international and national experts to support policy reforms, capacity building, and financial governance improvements. TA-10291 BAN: Economist project, funded by the Asian Development Bank (ADB), April 1, 2025, to July 31, 2025, Dhaka, Bangladesh. Public Financial Management (PFM) is a cornerstone of effective governance, critical for achieving fiscal discipline, transparency, and accountability. Our efforts to strengthen PFM systems focus on building capacity by investing in human resources and developing tailored PEFA training materials. This foundational work enables more efficient and sustainable public finance management in client countries. By identifying strengths and weaknesses in PFM systems and guiding the implementation of targeted, policy-aligned reforms, we support the achievement of national development goals. At this pivotal juncture, our unwavering commitment to advancing sound financial management practices reinforces our dedication to fostering long-term development and governance improvements.



## Developing Training Materials of PEFA Assessment for Government of Nepal

*Ecorys Consortium, The Netherlands - Lead*

### WORKSHOP



The consultancy aims to develop a PEFA and PFM training module for Nepalese civil servants involved in PEFA assessments. This module will enhance their understanding of PFM concepts, enable them to conduct PEFA assessments at all government levels, apply PEFA methodology accurately, and draft reports that meet the PEFA check standards. The consultant will lead this effort, working with local consultants and government officials, with funding provided by ADB's Technical Assistance 9837 to improve project implementation and portfolio performance in South Asia.



## TA-10151 NEP: National Fiscal Policy Expert (55002-001)

The Asian Development Bank's 'Strengthening Public Financial Management and Devolved Service Delivery Program' targets Sudurpaschim Province, the smallest among the supported provinces, aiming to address its challenges in budget formulation and fiscal policy expertise. With a budget utilization rate of 65.3% in FY 2023, the province seeks technical support to enhance budget credibility, manage public investments effectively, and establish medium-term expenditure frameworks. Working closely with the Ministry of Economic Affairs and the Policy and Planning Commission, the consultant will play a pivotal role in fortifying Sudurpashchim fiscal resilience and advancing its developmental goals.

## 06. Urban Infrastructure



### Feasibility Study for an urban cable car in Kathmandu” by the MOPIT (Ministry of Physical Infrastructure& Transport)

The project involved supporting Nepal’s Ministry of Physical Infrastructure and Transport and the Ministry of Finance in studying a pilot cable transport line in Kathmandu. The assignment included selecting the corridor to be modeled, estimating potential traffic demand, and identifying the most suitable pilot line through multi-criteria analysis. It further assessed the feasibility of the line from architectural, environmental, urban, technical, and operational perspectives. The team evaluated capital and operational costs, proposed a phased completion schedule, and conducted a cost-benefit analysis to determine the expected rate of return on investment, providing the Asian Development Bank (ADB) with a comprehensive appraisal of the project’s viability.

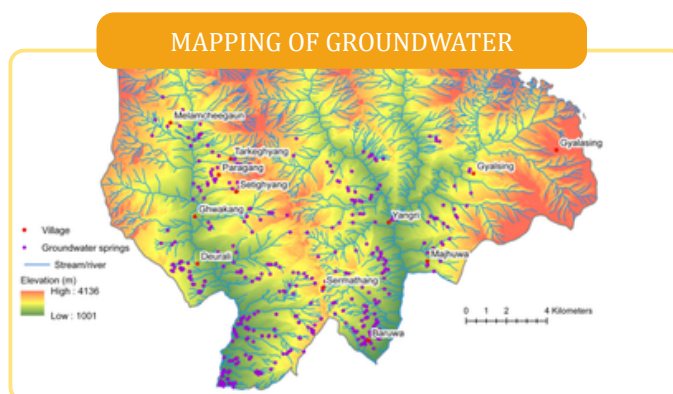
## 07. Agriculture, Natural Resources and Rural Development



### The Spring Inventory Mapping and Identification of Probable Ground Water Potential Zones in Hilly Region insight of Mountain Aquifer project, funded by the Water Resources Research and Development Centre (WRRDC) - Machhegaun, Chandragiri Municipality, Kathmandu

The study aims to assess groundwater potential in hilly regions, addressing water scarcity issues exacerbated by population growth and climate change. Given the declining water tables in Nepal, particularly in the Kathmandu Valley, and the drying up of mountain springs, the project seeks to develop a methodology for groundwater exploration in mountainous terrains. The study involves collecting and analyzing geological, hydrological, and remote sensing data using GIS techniques to identify groundwater potential zones. Fieldwork will include inventorying springs, assessing geological conditions, and evaluating the impact

of land use on groundwater availability. The findings will support future planning and sustainable water resource management in the region, ensuring reliable potable water sources for rural communities. We contribute to building climate resilience and sustainable water resource management through specialized training and capacity-building programs. Our programs focus on climate change, climate finance, disaster risk management, flood forecasting/modeling, early warning systems, and water resource management. We empower individuals and organizations with the knowledge and skills needed to tackle pressing environmental challenges.



## 08. Education and Health



### TA-10012 NEP/NEB: Capacity Development Support for National Examination Board (Grade 8 & 12 Standardization)

The Asian Development Bank (ADB), in partnership with the Government of Nepal, has engaged Water Asia International Pvt. Ltd. to support the National Examination Board (NEB) in standardizing Grade 8 and Grade 12 examinations under the TA10012-NEP initiative. This project aims to enhance exam credibility through capacity development, data management, and test standardization, while facilitating workshops for key stakeholders. The Service Provider will offer logistical, managerial, and coordination support to NEB and ADB consultants. Key tasks include data processing, test item development, assessment framework updates, and organizing regional workshops for local governments and educators. The project will develop standardized test items and training programs to ensure a fair and transparent assessment system. Running from November 2024 to December 2025, this initiative will strengthen Nepal's examination system, aligning it with global standards for improved education quality. TA 10012 / NEP/ NEB/Service Contract /Nov 2024: Capacity Development Support for National Examination Board (NEB) to Standardize Grade 8 and 12 Examination.

WORKSHOP



PROJECT MEETING



### TA-9800 NEP: Portfolio Management and Capacity Development for Enhanced Portfolio Performance - Capacity Development Support Firm to Implement Health Care Waste Management Plan (53238-001)

We are committed to fostering a healthier environment through a comprehensive approach to healthcare waste management (HCWM). Our efforts focus on identifying critical gaps, implementing customized solutions, and delivering targeted training to key stakeholders. By integrating internationally recognized best practices, producing impactful communication materials, and developing sustainable, efficient, and safe systems, we aim to protect public health while safeguarding the environment for future generations.

WORKSHOP



## 09. Information and Communication Technology (ICT)

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### Early Warning System Design and Supervision of Equipment Installation and Commissioning

*Joint Venture with Hydro-Consult Engineering Limited (Uganda) and Jomiso Consulting Pvt. Ltd. (India) and Wight Water Environmental Pty. Ltd. (Australia) and in association with Water Asia International (P) Ltd. (Nepal)*

The initiative was developed as part of the Emergency Preparedness Plan (EPP) for Kariba Dam, following a Dam Break Analysis that revealed the potential catastrophic impacts of dam failure on millions of people downstream. The project focused on designing a comprehensive Early Warning System (EWS) through hydraulic modeling, flood mapping, and inundation analysis, while also supervising the supply, customization, installation, training, and commissioning of EWS equipment. By strengthening disaster preparedness and ensuring timely communication and evacuation capabilities, WAI played a vital role in advancing regional safety, resilience, and compliance with the World Bank Safeguard Policy on Safety of Dams.

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# OUR EXPERTS

Water Asia International maintains a diverse pool of national and international experts with extensive experience in infrastructure , climate resilience, public finance, natural resource management, transport, energy, governance, ICT and social development.



## 01. Water Resources, Hydrology



### Dr. Khada Nanda Lamsal

River Basin Management & Water Resources Expert

30+ Years Experience

PhD in Water Resources Engineering

Nepal, India, Japan, Netherlands, UK, Cambodia, Lao PDR, Vietnam, Philippines, Iran, and the Pacific.

#### Core Expertise

- River Basin Management & Planning
- Hydrological and hydraulic modelling
- Flood modeling & risk assessment
- Worked with ADB, World Bank, JICA and other multilateral donors

#### Key Projects

- Bagmati River Basin Improvement Project ( ADB)
- River Basin Plan & Hydropower Master Plan (WB)
- Flood Forecasting and Early Warning System in Karnali and Narayani River Basins



### Dr. Khada Nanda Dulal

Stormwater / Drainage Engineer & Hydrologist

25+ Years Experience

Ph.D. in Integrated River Basin Management & M.Sc. in Hydro informatics,

Nepal, UK, Bhutan

#### Core Expertise

- Hydrological & hydraulic modelling (HEC-HMS, HEC-RAS, SWAT, MODSIM, MIKESHE)
- River basin planning, hydropower master plans, water resources assessment
- GIS-based hazard mapping, landslide & debris flow mitigation
- Worked with ADB, World Bank, JICA, UNDP, WFP

#### Key Projects

- SASEC Highway Enhancement Project (ADB)
- Bhawanijhora Landslide Mitigation, Bhutan
- Flood Forecasting & Early Warning System



### Dr. Mandira Shrestha

Water Resources & Hydromorphology Specialist

30+ Years Experience

Doctor of Engineering & Master's in Civil Engineering

Nepal, India, Bangladesh, Bhutan, Pakistan, and China

#### Core Expertise

- River Basin Management & Planning
- Hydrological & Hydraulic Modelling
- Flood Forecasting & Risk Reduction
- Worked with ADB, World Bank, USAID, WMO, UK Met Office, NOAA, USGS and other multilateral donors

#### Key Projects

- Green and Resilient Financing Facility ( ADB)
- HKH-HYCOS regional flood information system (USAID)
- Nepal's Department of Hydrology and Meteorology (WB)



### Dr. Amrit Prasad Sharma

Natural Hydromorphologist/ Natural Hazard Modeller and Framework Design Expert

18+ Years Experience

PhD in Hydraulic Engineering & Master in Environmental Science

Nepal, India, Pakistan, Afghanistan, China, USA

#### Core Expertise

- Hydromorphology & Flood Risk Modelling – flash flood simulation, rainfall-runoff analysis, hazard mapping, early warning systems
- River Basin & Water Resource Management – watershed planning, irrigation master plans, hydropower strategies, integration of climate safeguards
- Worked with ADB, WB, GCF, UNDP, UNICEF

#### Key Projects

- Flood Mitigation Strategy, Pennsylvania USA
- Bagmati River Basin Improvement Project (ADB)
- Irrigation Master Plan (ADB)
- BARHKH Regional TA (ADB)



### Dr. Indra Lal Kalu

Infrastructure Development Engineer & Water Resources Specialist

45+ Years Experience

Ph.D. in Irrigation Engineering & Management

Nepal, India, and Thailand

#### Core Expertise

- Irrigation System Design & Modernization
- Climate Change Adaptation in Rural Infrastructure
- River Basin & Watershed Conservation Planning
- Worked with ADB, World Bank, USAID and other multilateral donors

#### Key Projects

- ADB Climate Change Project Facility
- Water & Rural Infrastructure Facility
- Bagmati River Basin Integrated Master Plan



### Dr. Arun Bhakta Shrestha

Hydrologist/ Groundwater/ & Water Resources Expert

30+ Years Experience

Ph.D. in Earth Sciences & M.Sc. in Hydraulic Structures

Nepal, Bhutan, Bangladesh, India, Pakistan, China, Afghanistan, USA, Byelorussia

#### Core Expertise

- Basin-wide Hydrological Assessment
- Flood Forecasting & Early Warning Systems (including GLOFs)
- Hydrometeorological Monitoring Networks
- Worked with ADB, World Bank, USAID, ICIMOD, WMO, GRID-Arendal, CICERO, and bilateral agencies

#### Key Projects

- River Basins & Cryosphere Programme
- Regional Flood Information System
- Cryosphere & Atmosphere Programme



### Dr. Divas B. Basnyat

Hydrology/Water Resources Engineer

35+ Years Experience

Doctor of Engineering (Water Resources Engineering & Management)

Nepal, India, Thailand, Cambodia, Lao PDR, Vietnam, Afghanistan, Papua New Guinea, Kenya, Somalia, South Sudan, Mozambique, Sri Lanka, USA

#### Core Expertise

- Climate-Resilient Hydropower & Irrigation Systems
- Basin-wide Hydrological & Hydraulic Modelling
- Flood Forecasting & Early Warning Systems
- River Basin Policy & Institutional Reform
- Worked with ADB, World Bank, FAO, DFID, ICIMOD, CIAT, EU, KfW

#### Key Projects

- Priority River Basins Flood Risk Management Project (ADB)
- GMS Flood & Drought Risk Management Project (ADB)
- Irrigation Restoration & Development Project (WB)



### Dr. Binod Shakya

Senior Hydraulic Engineer & Hydrologist

25+ Years Experience

Ph.D. in Hydrology & Post-doctoral research in Vadose Zone Hydrology

Nepal, India, Bangladesh, Cambodia, Indonesia, Vanuatu, Tajikistan, Afghanistan

#### Core Expertise

- River Basin Hydrology & Hydrological Modelling
- Flood Forecasting & Risk Assessment
- Sediment Studies & Watershed Hydrology
- Worked with ADB, World Bank, national agencies, and international partners

#### Key Projects


- Vanuatu Climate Resilient Transport Project (WB)
- Tanahu Hydropower Project (ADB)
- Flood Forecasting – National Water Resources Data Management Center


## 02. Transport




### Mr. Naresh Pradhan

Transport & Soft Mobility Specialist

 30+ Years  
Experience

 M.Sc. in Transportation  
Planning & Road Engineering

 Asia, Africa, Latin America, Caribbean

#### Core Expertise

- Sustainable Urban Mobility & Non-Motorized Transport
- Transit-Oriented Development, Bus Rapid Transit
- Electric Mobility & Low-Carbon Transport Programs
- Worked with ADB, Green Climate Fund (GCF), governments, and international agencies


#### Key Projects


- SASEC Road Connectivity Project (ADB)
- E-Mobility & Low Carbon Transport Program (GCF)
- Design & Implementation of Climate-Resilient Road Networks and Inclusive Urban Mobility Systems




### Mr. Biswa Kumar Balla

Structure/ Bridge Engineer

 25+ Years  
Experience

 M.Sc. in Civil Engineering,  
B.Tech in Civil Engineering &  
M.Eng. in Earthquake  
Engineering

 Nepal, India, USA

#### Core Expertise

- Bridge & Structural Design (RCC, PSC, Steel, Arch)
- Hydrological & Geotechnical Investigation for Bridge Projects
- Construction Supervision & QA/QC of Highway Bridges
- Worked with ADB, World Bank, Swiss Development Cooperation (SDC), Government of Nepal


#### Key Projects

- Mugling-Pokhara Highway Improvement, Madi River Bridge (ADB)
- Narayanghat-Muglin Highway Bridges (WB)



### Mr. Dipak Shrestha

Transport Specialist

 36+ Years  
Experience

 M.Sc. in Geotechnical &  
Transportation Engineering

 Nepal, Thailand, Singapore, Philippines, Laos,  
Malaysia

#### Core Expertise

- Transport Infrastructure & Planning
- Highway & Bridge Design, DPR Preparation, QA/QC, Claims Management
- PPP Procurement, Contract Administration (FIDIC)
- Worked with ADB, World Bank, national agencies

#### Key Projects

- SASEC Highway Kakarbhitta-Laukahi Project (ADB)
- Bridge Improvement & Maintenance Program (WB)
- Air Transport Capacity Enhancement Project



### Dr. Chandra Shrestha

Senior Instructional Designer / Transport & Infrastructure Specialist

40+ Years Experience

Ph.D. in Transportation Planning

Nepal, Philippines

#### Core Expertise

- Instructional Design & Capacity Building for Infrastructure Professionals
- University Teaching & Curriculum Development
- Research & Publications in Transport and Resilience
- Worked with Asian Development Bank (ADB), World Bank, DFID/UK Aid, UNDP, UNCHS, WFP, The Asia Foundation, MCC

#### Key Projects

- Kathmandu University & NEC: Delivered lectures, supervised graduate research, and led workshops on transport engineering and pavement design
- Strategic Policy & Road Safety Initiatives (World Bank)
- National Reconstruction Authority (DFID/ADB/SDC)



### Mr. Naresh Man Shakya

Project Management & Geotechnical Expert

30+ Years Experience

MSc in Engineering Geology & B.tech in Civil Engineering,

Nepal, Bhutan, UK, India

#### Core Expertise

- Lead, Direct, Supervise and Monitor critical section of DoR.
- Quality control, standards development, laboratory testing, HR gap assessment, and capacity building for the Department of Roads (DoR).
- Worked with Asian Development Bank (ADB), World Bank, JICA, MCC/USA, Exim Bank of India, SNV, SDC

#### Key Projects

- Bridge Branch, Second Bridges Improvement & Maintenance Program (World Bank)
- Nagdhunga Tunnel Construction Project (JICA)
- Gwarko Flyover & Siddhababa Tunnel (DoR/ADB)



### Mr. Dev Kumar Tamang

Deputy Team Leader / Highway Engineer

30+ Years Experience

M.Sc. in Construction Management & B.Sc. in Civil Engineering

Nepal, Bhutan, UK, India

#### Core Expertise

- Planning, design, construction supervision, and rehabilitation of major national highways and feeder roads.
- Leadership in bridge design, supervision, and maintenance programs; integration of road safety and quality assurance.
- Worked with ADB, WB, MCC, ICA, Exim Bank of India

#### Key Projects

- SASEC Highway Enhancement Project, Kakarbhitta-Laukahi Section (ADB)
- Strategic Urban Roads & Bridges, Kathmandu (DoR)
- Mid-Hill Highway & Mahakali Highway Projects (DoR/JICA)

#### OTHER EXPERTS:

**Mr. Ishwary Prasad Kharel:** Resident / Bridge Engineer

**Mr. Uddhab Rana Magar :** Resident / Bridge Engineer

**Mr. Raghavendra Yadav:** Bridge/ Structure Design Engineer

### 03. Environment, Climate Change and Social Development & GESI



#### Dr. Chan Bahadur Gurung

Social Safeguard Expert & GESI Specialist

30+ Years Experience

Ph.D. & M.A. in Sociology

Nepal

#### Core Expertise

- Land acquisition, livelihood restoration, and compliance monitoring
- Inclusive consultations, gender action planning, and mainstreaming social equity in infrastructure programs.
- Monitoring, Evaluation & Social Risk Management
- Worked with ADB, WB, USAID, FAO, GTZ/GIZ, SNV, WWF

#### Key Projects

- Power Transmission & Distribution System Strengthening (ADB)
- Environmental & Social Impact Assessments (World Bank/DoR)
- Urban Corridor Initiatives (World Bank/DUDBC)



#### Ms. Indu Panta

GESI & Gender-Responsive Budgeting Specialist

15+ Years Experience

M.Phil in Development Studies

Nepal

#### Core Expertise

- Mainstreaming GESI/GRB into Public Financial Management (PFM) systems, designing inclusive programs, and providing strategic recommendations to government officials.
- Worked with USAID, WB, UNDP, Plan International, CBM, Norwegian Association of the Blind, Ministry of Women, Children & Social Welfare

#### Key Projects

- Public Financial Management Project (USAID)
- Second Bridges Improvement & Maintenance Program (World Bank)
- BIMP II & RSDP AFII (World Bank)



#### Mr. Ajay Bhakta Mathema

Natural Resource & Environmental Safeguard Expert

20+ Years Experience

MSc in Geo-Information Science (GIS) & Earth Observation & BE in Environmental Engineering

Nepal, Bhutan, Bangladesh, Norway

#### Core Expertise

- Environmental & Social Safeguards - EIA/IEE, environmental flow modelling, climate risk management
- Natural Resource Management - river basin planning, hydropower & irrigation projects, climate adaptation
- GIS & Remote Sensing - spatial analysis, land use mapping, resource inventories, database development
- Worked with ADB, World Bank, DANIDA, ICIMOD, UNICEF, WWF, Practical Action, SN Power, ICEM

#### Key Projects

- Dudhkoshi Storage Hydroelectric Project (ADB)
- River Basin & Hydropower Master Plans (World Bank)
- Koshi River Basin Management (WWF/WECS)
- Mechanized Irrigation Innovation Project (ADB)



### Ms. Jeevan Singh

Social Development and GESI Expert

25+ Years Experience

M.A. in Sociology

Nepal, India

#### Core Expertise

- GESI Mainstreaming & Social Safeguards in Roads, Bridges & Water Projects
- Resettlement Planning, Livelihood Restoration & Community Mobilization
- Capacity Building, Gender Sensitization & Social Risk Management
- Worked with ADB, WB, HELVETAS/FINIDA, UNDP

#### Key Projects

- SASEC Highway Improvement Project (ADB/DoR)
- Kathmandu Valley Water Supply & Sewerage Project (GoN/KUKL)
- Road Improvement Project (ADB/DoR)



### Dr. Giri Bahadur Sunar

Community Engagement, Livelihood & GESI Specialist

20+ Years Experience

Ph.D. Scholar in Sociology, M.Phil. in Sociology & Master's in Sociology & Anthropology

Nepal

#### Core Expertise

- Climate Change Adaptation & Inclusive Development
- Resettlement, Livelihood Restoration & Community Mobilization
- Worked with ADB, World Bank, MCC-USA, UN Agencies, Government of Nepal

#### Key Projects

- Green & Resilience Financing Facility (ADB)
- Small Towns Water Supply & Sanitation (ADB)
- Regional Urban Development Project (ADB)



### Mahendra Laxmi Sharma

GESI Specialist

30+ Years Experience

Master's in Sociology, Post-Graduate Diploma in Women's Studies & Bachelor's in Economics

Nepal, Afghanistan, India, Pakistan, Sri Lanka

#### Core Expertise

- Gender Equality & Social Inclusion Mainstreaming
- Social Safeguards, Resettlement & Livelihood Restoration
- Policy Advocacy, Capacity Building & Community Engagement
- Worked with ADB, World Bank, DFID, UN Women, MCC, CARE, Oxfam, CIDA, USAID

#### Key Projects

- Electricity Transmission Project (MCC-Nepal)
- Mechanized Irrigation Innovation Project (ADB/DoI)
- Post-Earthquake Recovery (UN Women)



### Bandana Sharma

Climate Change and Disaster Risk Management Expert

20+ Years Experience

Master's in Urban & Regional Planning, Post-Graduate Diploma in Disaster Management

Nepal, Belgium, Thailand

### Core Expertise

- Disaster Risk Reduction & Climate Resilience
- Risk-Sensitive Urban Planning & Governance
- Multi-Hazard Risk Assessment, Mitigation & Safeguards
- Worked with USAID, UNDP, Oxfam, CARE, GIZ, UNESCAP, WaterAid, CiTra Belgium

### Key Projects

- USAID's Tayar Nepal
- Earthquake Emergency Resp
- Emerging Towns Project (WB)
- Urban Resilience & DRR Thematic Advisor (Oxfam GB)



### Mr. Pratik Karmacharya

Environmental Expert

12+ Years Experience

Master's in Environment & Natural Resources & Bachelor's in Environmental Science

Nepal

### Core Expertise

- Environmental & Social Impact Assessments (EIA/IEE)
- ESHS Management Plans (ESHSM) & compliance monitoring
- GIS, cadastral analysis & baseline studies
- Worked with ADB, AIIB, MCA-Nepal, WB, IFC, WHO, WWF

### Key Projects

- Electricity Transmission Project (ETP), Nepal
- Siddhartha Highway Improvement Project (AIIB)
- Dudhkoshi Storage Hydroelectric Project (ADB)
- Butwal-Lamahi Transmission Line Project

### OTHER EXPERTS:

**Resham Baniya** : Environmental Specialist & Safeguards Expert

**Ranjana Bhatta** : Environment Specialist

**Mr. Rabin Dhakal** : Senior Social Safeguards Specialist

**Dr. Prem Kumar Khatri** : Cultural Heritage Specialist & Archaeology Expert

**Mr. Ashok Baniya** : Urban Forestry & Natural Resource Management Specialist

**Mr. Deependra Joshi** : Climate Change and Disaster Risk Management Expert

**Dr. Shambhu Prasad Kattel** : Senior GESI, Community Engagement & Social Safeguards Specialist

## 04. Economics, Public Finance & Climate Finance



### Mr. Baburam Subedi

Public Finance Management & Fiscal Policy Expert



25+ Years Experience



Dual Master's Degrees in Public Administration, Public Financial Management Reforms Policy & Investment Decision & Behavioural Finance

Nepal

#### Core Expertise

- Climate & Gender-Responsive Budgeting, Public Investment Management
- Budget Formulation, PEFA Assessments & Financial System Modernization (SuTRA, CGAS+)
- Worked with UNDP, ADB, USAID, EU, Government of Nepal

#### Key Projects

- Climate Finance Frameworks for Bagmati & Lumbini Provinces (UNDP)
- Gender & Climate-Responsive MTEFs and Project Banks (ADB)
- USAID Health Direct Financing & Agriculture Programmes (USAID)



### Mr. Upendra Gautam

Procurement and Financial Management Specialist



35+ Years Experience



MBA in Business Administration & Diploma in Business Administration

Nepal

#### Core Expertise

- Loan Disbursement, Audit Compliance & Portfolio Performance
- Capacity Building & Institutional Strengthening in FM Systems
- Worked with ADB, GIZ, World Education Australia

#### Key Projects

- Kathmandu Valley Water Supply Improvement Project (ADB)
- Forestry & Climate Change Cell
- Portfolio Management & Capacity Development (ADB)



### Nirmal Prasad Chapagain

SMEs and Value Chain Development Expert



30+ Years Experience



Master Degree in Business Studies & Bachelor's in Commerce

Nepal (with international collaboration in Somalia and China)

#### Core Expertise

- Value Chain Analysis & Agribusiness Market Development
- SME & Cooperative Capacity Building
- Rural Finance & Digital Payment Systems
- Public-Private Partnerships (PPP) for Agribusiness
- Worked with ADB, WB, DFID/UK Aid, USAID and other multilateral donors

#### Key Projects

- ADB Nuts & Fruits in Hilly Areas Project & HIMALI Project
- World Bank REED Project
- Heifer International SLVC II Project

#### OTHER EXPERTS:

**Saroj Acharya:** PFM Expert

**Rajendra Bahadur Bajracharya:** Financial Management Specialist, PEFA Coordinator

**Mr. Harka Bahadur Chhetri, Mr. Deep Govind**

**Rajkarnikar:** PPP & Asset Management Specialist

**Udaya Raj Adhikari:** Disaster Risk Finance Specialist

**Heemani Rayamajhi:** Financial Management Expert / Senior Action Fund Manager

**Madhab Raj Ghimire, Udaya Raj Sapkota, Trilochan Uprety:** Legal Specialist

**Mr. Dipendra Pant:** Economist/Financial Analyst


**Dr. Nirmal Kumar Bista:** Senior Institutional Development Specialist


## 05. Urban Infrastructure




### Mr. Suman Meher Shrestha

Senior Urban Planner, Architect & Infrastructure Development Specialist

 30+ Years Experience

 M.Sc. Degree in Urban Planning

 Nepal, UK, Italy

#### Core Expertise

- Urban Infrastructure Planning & Development
- Sustainable Urban Transport & Green Finance
- Worked with Asian Development Bank (ADB), World Bank, UNCDF, UNOPS, GIZ, EU, Green Climate Fund (GCF), FCDO/UK Aid

#### Key Projects


- Kathmandu-Tarai/Madhesh Fast Track Expressway
- Urban Water Supply & Sanitation Project (ADB)
- Town Development Fund & Municipal Asset Management (World Bank, UNCDF, GIZ, EU)




### Mr. Manish Raj Joshi

Urban Planner, Architect & Landscape/Urban Designer

 20+ Years Experience

 M.Sc. in Urban Planning & Bachelor's in Architecture

 Nepal, India, South Asia

#### Core Expertise

- Feasibility Studies & Detailed Engineering & Architectural Design
- Climate- and Disaster-Resilient Urban Infrastructure Development
- Urban Corridor & City Master Planning
- Municipal Governance & Investment Programming
- Worked with ADB, World Bank, Government of Nepal

#### Key Projects


- East Urban Corridor Development Project
- Urban Resilience & Liveability Improvement Project
- Tourism & Heritage Master Planning



### Mr. Milan Kumar Shakya

Business Analyst / Product Manager

 35+ Years Experience

 Executive MBA & MSc in Industrial & Civil Engineering

 Nepal

#### Core Expertise

- Water Supply & Sanitation Management – project leadership, institutional reform, smart water management systems (GIS, SCADA, automation)
- Business Analysis & Product Management – strategic planning, customer service improvement, revenue management
- Project & Contract Management – procurement, supervision, safeguards compliance, dispute resolution
- Worked with ADB, World Bank, JICA

#### Key Projects

- Kathmandu Valley Water Supply Service Sector Development Project (ADB)
- Kathmandu Upatyaka Khanepani Limited (KUKL)
- ADB Loan Projects

#### OTHER EXPERTS:

**Hisila Manandhari** : Urban Planner, Architect & Landscape/Urban Designer

**Mr. Deepak Chhetri**: Urban & Regional Planner / Urban Infrastructure Expert

## 06. Agriculture, Natural Resources & Rural Development



### Mr. Ram Chandra Bastakoti

Climate Change Adaptation, NRM & Agricultural Development Expert

25+ Years Experience

Post-Doctoral Fellow in Climate Change Adaptation, Ph.D. in Natural Resources Management & M.Sc. & B.Sc. in Agricultural Economics

Nepal, India, Thailand, Bangladesh, Cambodia, China, Laos, Vietnam

#### Core Expertise

- Climate-Smart Agriculture & Resilient Livelihoods
- Policy, Planning & Monitoring for Agriculture & Climate Adaptation
- Worked with ADB, World Bank, EU, GIZ, IFAD, UNDP, USAID, DFID/FCDO, KOICA, FAO, Heifer International, ICIMOD

#### Key Projects

- GRAPE II: Green Resilient Agricultural-Centred Private Sector Development
- Resilient High Value Agriculture Programme
- SDG & CSA Strategies



### Dr. Basant Vickram Thapa

Agriculture and Rural Development Specialist

35+ Years Experience

Ph.D. in Agriculture (Rice Genetics & Variability, USSR) & M.Sc. in Agriculture

Nepal

#### Core Expertise

- Agricultural Value Chain Development & Inclusive Business
- Rural Development & Livelihood Improvement
- Worked with ADB, WB, EU, USAID, SNV Netherlands, GTZ/GIZ, Helvetas, DFID/UK Aid, International Potato Center (CIP)

#### Key Projects

- Biodiversity & Market Assessment (USAID)
- Forests for Prosperity Project (World Bank)
- EbA II Baseline Assessment (UNEP/GEF)
- Community-Managed Irrigated Agriculture Sector Project (ADB)



### Mr. Motilal Ghimire

Natural Resource Specialist

25+ Years Experience

Ph.D. in Geo-Ecology & Field Informatics, M.Tech. in GIS & Remote Sensing & M.A. in Geography

Nepal, Japan, India, Pakistan, Bangladesh

#### Core Expertise

- Natural Resource Assessment & Land Use Planning
- GIS, Remote Sensing & Hazard Mapping
- River Morphology, Watershed Management & Climate Resilience
- Worked with ADB, World Bank, UNDP, WWF, IUCN

#### Key Projects


- Watershed Condition Assessment, Gandaki Basin (WWF)
- Water Resources Project Preparatory Facility (ADB)
- Building Resilience to Climate Hazards (World Bank)


## 07. Information & Communication Technology (ICT)




### Mr. Munish Kumar Karna

Digital Systems, AI & e-Governance Specialist

 18+ Years Experience

 M.Sc. in Information Technology (MSc IT)

 Expertise in Oracle, PostgreSQL, SQL Server & NoSQL Clusters

 Nepal

#### Core Expertise

- Digital Transformation & e-Governance Systems
- Database Architecture, Large-Scale Data Analytics & Automation
- High-Availability Data Infrastructure & System Optimization
- Worked with USAID, UNDP


#### Key Projects


- Biometric Voter Registration System
- Treasury Single Account (TSA) & Line Ministry Budget Information System (LMBIS)
- Resilient e-Governance Platforms (UNDP)



### Mr. Pawan Kumar Ghimire

Senior GIS & Spatial Planning Specialist

 30+ Years Experience

 M.Phil. in Mountain Ecology & Human Adaptations & M.A. in Geography

 Nepal

#### Core Expertise

- GIS, Remote Sensing & Geodatabase Design
- Land-Use Mapping & Spatial Data Analysis
- Decision Support Systems (DSS) for Resource Management
- Worked with Asian Development Bank (ADB), USAID, UNDP, ICIMOD


#### Key Projects


- Bagmati River Basin Improvement Project (ADB)
- Karnali & Narayani Flood Early Warning Systems (USAID)
- Himalayan GLOF Risk Assessments (UNDP/ICIMOD)




### Kiran Thapa Chhettri

GIS/RS Expert & Geomatics Engineer

 10+ Years Experience

 Master of Engineering / Master of Science in Geoinformatics & Bachelor in Geomatics Engineering

 Nepal

#### Core Expertise

- DGPS-based Field Surveying & Geodetic Control Networks
- GIS & Remote Sensing for Environmental and Engineering Projects
- Worked with GoN, World Bank, Millennium Challenge Corporation, SJVN Limited

#### Key Projects


- Kathmandu–Terai Fast Track Project
- 400 kV Transmission Line Survey
- National Land Use Project
- Taksu Khola Hydropower Project


## 08. Education & Health




### Dr. Anjana Shakya

Environmental Education, Health & Climate Resilience Specialist

 25+ Years Experience

 Ph.D. in Environmental Education & Sustainable Development

 Nepal, Bangladesh, Pakistan

### Core Expertise

- Healthcare Waste Management & Environmental Monitoring
- Gender Equality & Social Inclusion (GESI) in Education & Health Systems
- Worked with ADB, UNDP, Asian Disaster Preparedness Centre (ADPC)

### Key Projects


- Health Care Waste Management Plan (ADB)
- Disaster Preparedness & Health Resilience (ADPC)
- Watershed & Climate Resilience Programs (ADB/UNDP)


## 09. Energy




### Mr. Saroj Kumar Mishra

Transmission/Substation Expert

 29+ Years Experience

 M.E. in Electrical & Electronics Engineering, B.E. in Electrical Engineering

 Nepal, India, Bangladesh, Bhutan and Saudi Arabia

### Core Expertise

- Planning, Design Review & Construction Supervision of EHV Transmission Lines & GIS/AIS Substations
- Testing, Commissioning & Project Management of Transmission Systems up to 765 kV
- Power System Protection, SCADA Integration & Contract Management
- Worked with ADB, AIIB, World Bank

### Key Projects

- 400 kV D/C Transmission Lines, Green Energy Corridor (ADB/AIIB)
- 400/220 kV GIS Substation & TL for Cross-Border Power Evacuation (AIIB, Bhutan-India)

# OUR PRESENCE



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- Kyrgyzstan
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- Philippines
- Nepal
- Bangladesh

- Pakistan
- India
- Vietnam
- Indonesia
- Myanmar
- Thailand
- Cambodia

- Laos
- China
- Bhutan
- Fiji
- Armenia

# OUR CLIENT

Trusted by leading International Organizations  
to deliver sustainable impact worldwide.



# OUR TEAM





# Preserve the Himalayas, Embrace Sustainable Development – Our Future Relies on It!

## Majestic Peaks, Our Guiding Call

In Nepal's mountains, towering and grand,  
Flows the lifeblood of this ancient land.  
Water whispers, streams unfold,  
Carving stories both new and old.

At Water Asia, we take the lead,  
Serving nature's and clients's need.  
With wisdom, care, and a steady hand,  
We shape the future of this sacred land.



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