



Kathmandu Upatyaka Khanepani Limited
Project Implementation Directorate
Kathmandu Valley Water Supply Improvement Project (Phase 2)

Invitation for Expression of Interest (EOI)

Individual Consultant

First Date of Publication: 09 September 2025

1. The Government of Nepal has received financing from the Asian Development Bank" towards the cost of Kathmandu Valley Water Supply Improvement Project (Phase 2) for improving the water supply services in Kathmandu Valley. Part of the proceeds (L-4534-NEP) will be used to finance on Individual consultant for which this Invitation for Expression of Interest is issued.
2. KUKL-PID intends to engage one (1) Water Supply and Commissioning Expert (National Individual Consultant) in accordance with the procedure of Asian Development Bank's (ADB's) **policies of the Bank detailed in the Procurement Regulations for ADB Borrowers 2017 (as amended from time to time) (Procurement Regulations).**
3. The services to be provided by the Consultant is estimated to 730 days (intermittent) spread over 48 months. It is expected that the consulting services will commence from 1 October 2025.
4. Individual Consultants must furnish a list of similar projects executed with a summary of such projects and important details. The EOI is required to be submitted in the standard formats stipulated for this purpose. The EOI, draft Terms of Reference (TORs), format for submission and other details can be downloaded from ADB website <http://csrn.adb.org> (click on "Nepal" find captioned project, click on "view" and download "TOR document") or PID website <http://www.kuklpid.org.np> These details and any further information can also be obtained from KUKL-PID.
5. KUKL-PID Intends to engage the above position to provide technical support to the Project Implementation Directorate- Kathmandu Upatyaka Khanepani Limited (PID-KUKL) and KUKL in: (i) the operation and maintenance of newly laid water supply distribution and transmission networks, and for monitoring the operation of SCADA systems under the ADB-supported Kathmandu Valley Water Supply Improvement Project and other government-supported ongoing water supply projects in Kathmandu Valley; and (ii) the testing and commissioning of the new transmission network to be laid under the Kathmandu Valley Water Supply Improvement Project (Phase 2).
6. To ensure that all data required to assess for short-listing are obtained, interested consultant(s) are required to provide information following ADB's standard EOI form.
7. Interested Consultants can submit their EOIs through ADB's consultant management system on or before **23 September 2025.**
8. The interested Consultant(s) may obtain further information from: Project Implementation Directorate; Tankaprasad Ghumti sadak, Anamnagar, Kathmandu, Nepal
9. KUKL-PID reserves the right to reject any or all of the EOIs at any stage without assigning any reason whatsoever and without incurring any liability to the consultants.

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Kathmandu Upatyaka Khanepani Limited
Project Implementation Directorate Office (PID)
Anamnagar, Kathmandu

Terms of References (ToR)
for
Water Supply and Commissioning Expert (National)
(Loan No: 4534-NEP)

1. Background

The Government of Nepal (GON) has received financing from the Asian Development Bank (ADB) for the Kathmandu Valley Water Supply Improvement Project (Phase 2) (KVWSIP2). KVWSIP2 is a follow-on project to the first phase Kathmandu Valley Water Supply Improvement Project (KVWSIP) and aims to ensure drinking water security in the Kathmandu Valley by "expanding the water supply distribution system to an additional 600,000 people outside the core area of the Kathmandu valley using a district meter area-based approach" as one of the objectives. The project is a continuation of ADB's support to improve the Valley's water supply system within an overarching consistent, coherent, and cohesive phased investment strategy that sequentially addresses the underlying causal deficiencies of water insecurity. The major infrastructure works, completed and on-going, under the past and ongoing loans under PID-KUKL are:

- Construction of 10 new water service reservoir tanks (SRTs) with a total capacity of 74,500 cum.
- Laying of 77 km of bulk distribution system (BDS) pipelines and 1000 km of distribution network improvement (DNI) pipelines with approximately 86,000 household connections.

In addition to ADB's support, the Government of Nepal is independently financing further expansion of the distribution system, which includes:

- Additional 11 km BDS Transmission Main from Sundarimal to Chabahil (BDS-05) to augment the present transmission line capacity from 222.5 MLD to 510 MLD to cater to the water received from Yangri and Larke,
- Three SRTs (with 6,000 m³ capacity at Kirtipur, 8,500 m³ capacity at Mahankalchaur and 18,000 m³ capacity at old Balaju Reservoir), and
- Approximately 610 km of DNI pipelines (DNI-7B, DNI-7C and DNI 9a & b) with 60,000 household connections.

The Project Implementation Directorate (PID) of Kathmandu Upatyaka Khanepani Limited (KUKL) intends to engage a national Water Supply and Commissioning Expert as an individual consultant under Loan No. L-4534. The primary objective is to support the commissioning of ongoing Government of Nepal (GoN)-financed projects, as well as to oversee the completion of remaining works (punch list items) under Loan No. 3255.

The consultant will be responsible for coordinating with senior managers, engineers, consultants (DSC-07), contractors, technicians, and other key stakeholders—including officials from KVWSMB, KUKL central and branch offices, and PID throughout the system

commissioning process. Additionally, the expert will supervise the activities of the forthcoming Design, Supervision, and Project Management (DSC/SKV-01).

A total of **730 person days** of expert services will be required spread over a period of 48 months. The Consultant will report to and work under the overall guidance of Project Director, PID, and is expected to commence its services by **01 October 2025**.

2. Objective and Purpose of the Assignment:

The objective of the consulting service is to provide technical expert services related to water supply, and specifically in connection with testing, commissioning and defect rectification of the BDS and DNIs implemented under Kathmandu Valley Water Supply improvement Project (ADB Loan No: 2776, 3255) , Kathmandu valley Water Supply improvement Project Phase 2 (ADB Loan No: 4534-NEP) and Government of Nepal Financing packages.

3. Scope of Services:

The Water Supply and Commissioning Expert (National) will carry out responsibilities, including but not limited to, the following tasks related to water supply—specifically in connection with testing, commissioning, and defect rectification of the BDS and DNIs—as per the relevant contract documents implemented under the Kathmandu Valley Water Supply Improvement Project (ADB Loan No: 2776, 3255), Kathmandu Valley Water Supply Improvement Project Phase 2 (ADB Loan No: 4534-NEP), and Government of Nepal financing packages.

- i. Lead the entire commissioning team (PID, consultants, and contractor-designated personnel) in flushing, testing, and disinfecting the entire system (BDS, SRTs, and DNIs).
- ii. Work closely with the Design Supervision and Project Management Consultant (DSC) during the commissioning of BDS, SRTs, and DNIs, and supervise the commissioning team.
- iii. Interact with senior managers, engineers, consultants, contractors, technicians, and other stakeholders, including officials from KVWSMB, KUKL, KUKL branch offices, and PID, as required, to gain an understanding of the system.
- iv. Ensure that all necessary tests specified in the contract documents for relevant sections—pipes, SRTs, valves, other fittings, accessories, and appurtenances—are conducted before the system is put into service.
- v. Make field visits and recommend the replacement of fittings, pipes, and appurtenances to PID/KUKL as required, based on defects, incompatibility with the design, flow obstructions/interference, and system functionality.
- vi. Ensure proper flushing and disinfection according to standard practices.
- vii. Ensure that the system and its accessories are calibrated by the contractors and reviewed by the consultant to align with the design model parameters as practically as possible.
- viii. Ensure that the network, SRTs, and accessories are tested, disinfected, and commissioned systematically, following methodical planning and execution.
- ix. Conduct job training for technical staff regarding operation and maintenance (O&M) during commissioning, identifying training needs, designing broad content for future training, and guiding the development of checklists and SOPs for repair and maintenance.
- x. Prepare and update the template for a stepwise commissioning plan to be prepared by the contractor for each DMA of the DNI works.

- xi. Ensure that the testing and commissioning process follows a structured approach so that KUKL receives a stable and efficient system for operation after calibration according to acceptable standards.
- xii. Coordinate with the contractor and commissioning team to achieve DMA full hydraulic leakage and disinfection testing for 24 hours in all packages, and ensure the supply of potable water to the DMA(s) for seven days to assess the supply conditions and performance for the Water Flow Assuring Test (SKV Packages).
- xiii. Assist PID staff and KUKL in supervising the construction of transmission pipelines, distribution networks, storage reservoirs, water treatment plants, and other relevant structures, as needed.
- xiv. Coordinate with local authorities and other relevant agencies and institutions as required for project implementation.
- xv. Configure distribution zones and district metering areas (DMAs) in coordination with KUKL and its relevant branch offices.
- xvi. Perform any other relevant tasks within the scope of services as requested by the Project Director, PID.

4. Reporting:

The consultant shall prepare the following reports.

- i. A Monthly Report, providing a brief description of the activities carried out by the consultant, shall be submitted within 7 days after the completion of each 30-day period, along with the corresponding monthly invoice.
- ii. Within seven days after the end of the contract, the consultant will submit an Assignment Completion Report along with the time to the Project Director of PID/KUKL.

5. Indicative Staff requirements

It is envisaged that the individual consultant will be required by 01 October 2025 to 30 September 2029.

National Individual Professionals
Water Supply and Commissioning Expert

Estimated person days
730

Key Task: To provide technical support to the commissioning team of PID

Reporting: To report to the Project Director and designated officer in PID

6. Facilities to be provided by the Employer

The Employer will provide the following:

- Reasonably furnished office space in PID.
- Transportation facilities shall be provided on an as-required basis during the engagement period.

7. Minimum Qualification Requirements:

The candidate for this position must have a Bachelor's degree in Civil Engineering (preferably with a postgraduate degree in water supply and sanitary/environmental/public health engineering or environmental management). They should possess at least 10 years of experience, including experience in the design and supervision of water supply distribution networks for urban areas. Experience in commissioning bulk distribution systems, service

reservoirs, and distribution network systems is highly desirable. Experience with externally funded projects (e.g., ADB or World Bank) will be advantageous.

The engagement period in each project or assignment shall be at least 12 months.



Asian Development Bank

Expression of Interest

Individual Consultants

A. Project Data

Project Name	
Assignment	

B. Consultant Data

* Name	
* Country of Nationality	
* Address of consultant	
* E-mail of consultant	

C. Assignment Specific Qualifications and Experience

* Assignment Specific Experience (Provide information demonstrating your ability, skills and experience to undertake advertised assignment and deliver inputs/ outputs required under the TOR)
* Please provide summary of your qualifications and attach your Curriculum Vitae (CV)

D. Eligibility Declaration

I, the undersigned, certify to the best of my knowledge and belief

- ☐ The CV I attached correctly describes my qualifications and my experience
- ☐ I am not part of the team who wrote the terms of reference for this consulting services assignment.
- ☐ I am not sanctioned (not eligible for engagement) by ADB or another MDB.
- ☐ I have not been convicted of an offense or crime related to theft, corruption or fraud.

- ☐ I understand that it is my obligation to notify ADB should I become ineligible to work with ADB or another MDB, or should I be convicted of an offense related to theft, corruption or fraud.
- ☐ I understand that any misrepresentations that knowingly or recklessly mislead, or attempt to mislead may lead to the automatic rejection of the proposal or cancellation of the contract, if awarded, and may result in further remedial action, in accordance with ADB's Anticorruption Policy.

* Completed by (Name/Position)	
Date (dd/mm/yyyy)	

Attachment: Curriculum Vitae

CURRICULUM VITAE (CV)

1. **Name of Expert** [*Insert full name*]: _____
2. **Current Residential Address:** _____
Telephone No.: _____
Fax No.: _____
E-Mail Address: _____
3. **Date of Birth:** _____ **Citizenship:** _____
4. **Education** [*Indicate college/university and other specialized education of expert, giving names of institutions, degrees obtained, and dates of obtainment*]: _____

5. **Membership in Professional Associations:** _____

6. **Other Trainings** [*Indicate significant training since degrees under 5 - Education were obtained*]:

7. **Countries of Work Experience:** [*List countries where expert has worked in the last ten years*]:__

8. **Languages** [*For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing*]: _____

9. **Employment Record** [*Starting with present position, list in reverse order every employment held by expert since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.*]:

From [Year]: _____ To [Year]: _____

Employer: _____

Positions held: _____

10. Detailed Tasks Assigned <i>[List all tasks to be performed under this assignment]</i>	13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned <i>[Among the assignments in which the expert has been involved, indicate the following information for those assignments that best illustrate the expert's capability to handle the tasks listed in line 11.]</i> Name of assignment or project: _____ Year: _____ Location: _____ Client: _____ Main project features: _____ Positions held: _____ Activities performed: _____
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11. Certification:

	Yes	No
I, the undersigned, certify to the best of my knowledge and belief:		
(i) this CV correctly describes my qualifications and my experience	<input type="checkbox"/>	<input type="checkbox"/>
(ii) I am a close relative of a current ADB staff member	<input type="checkbox"/>	<input type="checkbox"/>
(iii) I am the spouse of a current ADB staff member	<input type="checkbox"/>	<input type="checkbox"/>
(iv) I am a former ADB staff member.	<input type="checkbox"/>	<input type="checkbox"/>
• If yes, I retired from ADB over 12 months ago	<input type="checkbox"/>	<input type="checkbox"/>
(v) I am an employee/consultant of a Client Party	<input type="checkbox"/>	<input type="checkbox"/>
(v) I am part of the team who wrote the terms of reference for this consulting services assignment.	<input type="checkbox"/>	<input type="checkbox"/>
(vi) I am sanctioned (not eligible for engagement) by ADB.	<input type="checkbox"/>	<input type="checkbox"/>

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of expert		Date: _____ (Day/Month/Year)
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