



Lao People's Democratic Republic
Peace Independence Democracy Unity Prosperity

Ministry of Public Works and Transport
Department of Water Supply
Scaling-Up Water Supply, Sanitation and Hygiene Project
(SWSSHP) IDA Credit No.6375-LA

No. 583...../DWS
Vientiane, 07 DEC 2022

REQUEST OF EXPRESSIONS OF INTEREST
(for Firm Selection)
Geotechnical and topographical survey for 12 water clusters in 4 provinces
(Phongsaly, Oudomxay, Houaphanh and Xiengkhouang)
(Ref. No. C1/CS/15)

The World Bank-supported Scaling-Up Water Supply, Sanitation and Hygiene Project (SWSSHP) aims to provide access to improved water supply, sanitation, and hygiene services in selected rural and peri-urban areas identified for nutrition convergence and strengthen selected institutions such as the Department of Water Supply (DWS), Department of Public Works and Transport (DPWT) and the Provincial Nam Papas (PNPs) in the Ministry of Public Works and Transport (MPWT) and the Department of Hygiene and Health Promotion (DHHP) and the National Center for Water Supply and Environmental Health (Nam Saat Centre) in Ministry of Health (MoH), to improve service delivery efficiently and sustainably beyond the project period. The project will adopt an integrated community-driven approach that combines water supply, sanitation, hygiene, and nutrition-sensitive behavior change. The project cycle consists of seven distinct steps: Promotion, Planning, Design, Sanitation, Construction, Post-Works, and Sustainability.

The main objective of this assignment is to undertake topographical and geotechnical surveys to support the design and construction of civil works for water infrastructure covering the intake location, water treatment plants location, raw water transmission pipeline location, clean water transmission pipeline location, distribution pipes network in the villages for the 12 water supply clusters in the 12 districts of 4 provinces: Phongsaly, Oudomxay, Xiengkhouang and Houaphanh.

The objectives for conducting the geotechnical survey are to find out (1) the nature of the soil and rock layer; (2) the depth and thickness of various soil and rock strata for structure foundation requirements; (3) the location of the Ground Water Table (GWT); (4) in-situ properties by different Subsurface exploration field tests (SPT, Vane Shear Tests, etc.); (5) collection of soil and rock samples for determination of engineering properties in the laboratory; (6) suggestion of proper foundation type with soil condition and depth and (7) geotechnical engineering assessment of Foundation regarding its load bearing capacity and settlement aspects.

The objectives for conducting the topographic survey are to (1) determine the position of any feature or more generally any point in terms of both a horizontal coordinate system such as latitude, longitude, and altitude; and (2) to identify (naming) features, and recognizing typical landform patterns are also part of the field) to get data surveys for the design engineering and construction of the water supply system.

It is anticipated that the duration of the assignment is expected to be completed in **1.5 months** (including the time to complete the report) with a total of 15 Experts (*one Team Leader/Infrastructure Facility Engineer; 4 Topographic Specialists; 4 Geotechnical Specialists; 2 GIS/GPS Specialists; 4 Technical Assistant/AutoCAD) and 10 Skilled Workers.*

The Department of Water Supply now invites eligible consultants to indicate their interest in providing the services. Interested consultants must provide information indicating that they are qualified to perform the services (*brochures, description of similar assignments, experience in similar conditions, availability of appropriate skills among staff, etc.*). Consultants may associate to enhance their qualifications.

The shortlisting criteria (experts will not be evaluated at the shortlisting stage) based on qualification and experience of the Consultants listed below:

- Minimum of five (05) years of experience in making Topographic maps and Geotechnical surveys;
- Proven record on successful completion of at least three (03) years of assignments related to Topographic and Geotechnical surveys;
- Having survey equipment including topographical, river cross-section survey (current meter and acoustic doppler current profiler) tools.

A consulting firm will be selected under **Quality and Cost-Based Selection (QCBS)** method, clause 7.1 to 7.33 of the *World Bank Procurement Regulations for IPF Borrowers, Goods, Works, Non-Consulting and Consulting Services dated July 2016, Revised November 2017, August 2018 and Fourth Edition of November 2020.*

Interested firms may obtain further information (including a copy of detailed Terms of Reference) at the address below upon request during office hours, 08:00-16:00 hrs, Monday to Friday. Expression of interest must be delivered to the address below by 16:00 hours (Local time of Vientiane Capital, Lao PDR, GMT+7) of **29 December 2022 (One original in hard copy and Electronic submission is required).**

Att.: Ms. Sompethana Dethoudom
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Signed:



Khanthone VORACHITH

for Director General
Department of Water Supply
Ministry of Public Works and Transport