

# **REQUEST FOR QUOTATION (RFQ)** **DOCUMENT**

**Tender No.:** WAP/Fiji Roads/Geotechnical/25-26

**Date:** 23 /01/2026

**Name of the Work:** Selection of Local Agency for carrying out Geotechnical Investigation Works for Design and Supervision Consultant - Vanua Levu Cross Island Road Resilient Tourism Infrastructure Works, Fiji.



**The Country Manager (Fiji)**

**WAPCOS Limited**

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## **REQUEST FOR QUOTATION**

### **1.0 Background of the Project**

WAPCOS Limited - has been awarded the work for **Design and Supervision Consultant - Vanua Levu Cross Island Road Resilient Tourism Infrastructure Works, FIJI**. In order to undertaking of "Detailed Investigation and Design for the Proposed infrastructure works in Vanua Levu" a Geotechnical Investigation is required to be carried out. Accordingly, WAPCOS Limited (hereinafter called as "Employer") is hereby inviting sealed quotations from reputed and experienced geotechnical testing agencies (hereinafter referred to as "Bidder") for carrying out Geotechnical Investigation survey work for the above project as per **Annexure-1**.

### **2.0 Project Site**

The "Fiji Tourism Development Program in Vanua Levu" project (FTDPV) consists of three (3) components aimed at bridging gaps in critical sustainable tourism infrastructure, products and services while increasing community benefits from natural resources through nature-based tourism.

The project site is located along Cross-Island Road (currently known as Transinsular Road), is approximately 85km in total length – it connects the three townships of Labasa, Seaqqa and Savusavu in Vanua Levu and are linked by two main roads namely Nabouwalu Road and Transinsular Road. Few areas of this section of routes requires imminent rehabilitation of pavement to address surface distress, ride quality and safety concerns. The major priority area in this section is the slip at Korosomo. Investigation and design is required to provide a more resilient solution to mitigate existing drainage issues and slope stability. This section of the road requires some major rehabilitation works to improve pavement, sight distance, substandard horizontal curves, steep grades, signage and roadmaking and village threshold treatment. Additional work is required to continue the existing rehabilitated coastal revetment for 600m towards Savusavu.

The design works under the project envisages design of 13 prioritized infrastructure components along the Cross Island Road and Nabawalu Road connecting Labasa town and Savusavu town, as mentioned in the previous section. In general, design of passing lanes, truck runaway ramps, Village treatment, thermoplastic road marking between Labasa and Savusavu, design of tourist amenities for scenic viewpoints, design of 600m length rock revetment near Urata Village, stabilization of Korosomo slip including design of drainage facilities and Gabion walls for slope stabilization.



Fig.1 Image of the Cross Island Road alignment



Fig.2 Image of the project components location

### 3.0 Pre-qualification Criteria

Quotations received from the bidders who meet the following minimum pre-qualification criteria shall only be opened and considered for evaluation. The estimated cost for the Geotechnical Investigation Work is FJD 75,000, inclusive of all applicable taxes.

1. The Bidder should have valid Company Registration Certificate in Fiji or Trade License, TIN Number. Self-certified copies of those documents are required to be submitted along with the quotation.
2. The bidder must have at least 5 years (ending last day of the month previous to the one in which this RFQ is invited) of experience in the field of similar works. The similar works means Geotechnical Investigation/ field/lab testing works for roads, bridges, jetties, ports, residential/ non-residential/ commercial buildings/ townships/ school/ hospital complex/ other infrastructure **(Work Order/ Letter of Award/ Contract Agreement/ Work completion certificate to be submitted as supporting documents)**
3. Bidders are required to submit documentary evidence to establish proof of ownership/ lease/ hire/ rent of geotechnical testing equipment proposed to be used for this work. Acceptable proofs shall include the followings;
  - Original purchase invoices or receipts
  - Customs clearance certificates (if imported)
  - Asset registers of the company
  - Serial numbers and manufacturer details of the equipment
  - Lease/ hire/ rent agreement/ consent letter (if equipment are on lease/hire/ rent) from the equipment owner, guaranteeing its availability for the entire duration of the contract.
4. The bidder must have not been blacklisted by any Government agency or state-owned enterprises. An undertaking/ self-declaration in this respect is to be submitted.
5. The bidders are required to submit the signed copy of the RFQ as a token of acceptance of the terms and conditions along with the sealed quotations. Any quotations received without the signed copy of the RFQ will be considered as non-responsive and will summarily be rejected.
6. The Bidders are to provide the copy of the valid public liability insurance of value FJD 250,000 as part of technical qualification requirement.
7. The bidder must have experience of having successfully completed similar works during the last 5 years ending last day of the month previous to the one in which this RFQ is invited:
  - i. At least one similar work costing more than or equal to FJD 60,000 Including of all taxes  
or
  - ii. At Least two similar works costing more than or equal to FJD 37,500 including of all taxes  
or
  - iii. At least three similar works costing more than or equal to FJD 30,000 inclusive of all taxes

Similar works means Geotechnical investigations including testing and drilling for projects related to roads, bridges, jetties, ports, residential / non-residential / commercial buildings / townships / Schools / Hospital complex / other infrastructure (completion certificate issued by client indicating completion cost, date of commencement and date of completion to be submitted)

Quotation received from the bidders who fail to submit the above required pre-qualification documents shall be considered as non-responsive and their quotation will summarily be rejected.

**4.0 Scope of Work**

The Agency shall carry out geo-technical investigations and sub-surface explorations for the proposed Road infrastructure development along cross island road. These investigations shall be carried out as per contract conditions, technical specifications. The scope of geo-technical investigations for road widening, slope stabilisation works & soil strength assessment shall be at various locations. The agency shall review and finalize the borehole locations in consultation with the WAPCOS Limited officers. The Geo-technical Investigations and Sub-Soil Exploration shall be as per following:

**4.1 Two (2) boreholes have been proposed along the Korosomo Slip at two different locations and one at a pier location.**

The soil investigation has to be carried out for boreholes with FRA approved laboratory. Borehole location and levels are to be shown with GPS coordinates and GTS benchmarks respectively. The number and location of boreholes to be taken is as per Codal provisions as directed by FRA/WAPCOS. The consultant has to plan the requirement of bore logs for geotechnical investigation in consultation with WAPCOS as per actual requirement. Geotechnical Investigation shall be carried out as per relevant Fiji Standards/ New Zealand Standards.

Minimum depth of bores for different type of soil / rocks strata shall be as given below (unless otherwise directed by WAPCOS representatives):

Sl. No.	Type of structure	Minimum depth (m)
1	Retaining wall/Gabion wall	20 m

Scope and activities are detailed below.

**4.2 Field Investigation in soil:**

Boreholes shall be drilled at specified locations to obtain information about the sub soil profile, its nature and strength and to collect soil samples for strata identification and conducting laboratory tests. The minimum diameter of the borehole shall be 150 mm and boring shall be carried out in accordance with the provisions of relevant Fiji Standards/ New Zealand Standards. The field investigation shall also include:

The scheme for the boring locations and the depth of boring shall be prepared by the Agency and submitted to WAPCOS Limited for approval. These may be finalized in consultation with WAPCOS Limited.

Laboratory testing of samples collected from Sub-Soil Investigation Report and submission of draft detailed Sub-Soil Investigation report including all test reports/ recommendations as per Conditions of Contract and Technical Specifications.

Submission of Final Detailed Sub-Soil Investigation report including all test reports/ recommendations as per Conditions of Contract and Technical Specifications.

#### **4.3 Dynamic Cone Penetration Test:**

The Dynamic Cone Penetration Test (DCPT) is a rapid, in-situ method for assessing soil strength and compaction. The test shall be performed (as per Fiji Standards/ New Zealand Standards) by 8 kg hammer falling through a free-fall height of 57.5 cm upto depth 2m.

#### **4.4 Field Investigation in Rock**

**a.** Core drilling shall be done by diamond core drilling machine using diamond bit. The feed or thrust to the drilling bit shall be actuated by hydraulic RIG. The equipment or set up shall be capable of recovering at least 75% of the drilled volume. The diamond core drilling equipment and procedure for drilling shall conform to Fiji Standards/ New Zealand Standards. The equipment shall be provided with necessary facilities to regulate the spindle speed, bit pressure and water pressure during core drilling to get good core recovery.

**b.** Drilling shall be carried out with NX size diamond tipped drill bits or impregnated diamond bit depending on the type of rock encountered. Double tube swivel core barrel conforming to Fiji Standards/ New Zealand Standards shall be used to ensure good core recovery and to pick up cores from the layers of rocks. Suitable core catches shall be used to ensure continuous and good core recovery.

**c.** In general, the drilling run shall be of 1.5 m length; however, this can be increased to 3.0m provided the core recovery is observed more than 80% in two successive 1.5m drill runs. In boulder strata and highly weathered/jointed rocky strata having core recovery less than 20%.

**d.** The depth of borehole shall be decided based on overall strata encountered as per relevant Fiji Standards/ New Zealand Standards code. Borehole shall be terminated if a continuous depth of 3m of sound hard rock (RQD > 75), is encountered.

#### **4.5 Laboratory Testing:**

Routine laboratory testing on soil/rock samples shall be carried out. Type & no. of tests will depend on availability of samples and shall be decided by Geotechnical experts/Consultants.

**a.** Types of tests on Undisturbed/Disturbed Samples of soil will be out of:

- i. Atterberg's Limits.
- ii. Sieve Analysis and Hydrometer Analysis.
- iii. Standard Proctor Compaction test
- iv. Specific Gravity.
- v. Bulk Density and Moisture Content.
- vi. Unconfined Compressive Test on selected samples.
- vii. Box shear test (In case of cohesion less soil) on selected samples.
- viii. Consolidation test on selected samples.
- ix. Triaxial shear test (U.U)
- x. California bearing ratio test for test pits along the road
- xi. Permeability test

**b.** Type of test on selected Rock Samples will be out of: -

- i. Specific Gravity.
- ii. Unconfined Compressive strength test (Point load test shall be carried out for approx. assessment of strength if core required for U.C. strength test is not achieved.)
  - i. Porosity, moisture content and water absorption test.

#### 4.6 Report to be submitted:

After completion of the Geotechnical Investigation work, the Agency shall submit the results of tests on various samples of each bore hole in a proper tabular form as per relevant codes along with his detailed Report in three copies. Geotechnical report shall cover the geology and seismicity of the area, details of lab test results, bore log details. Based upon field and lab results, the Agency will work out two options i.e. pile as well as open foundation. For open foundation, net allowable bearing capacity shall be worked out based upon bearing pressure and settlement criteria. For pile foundations, safe design load carrying capacity and safe uplift capacity of pile foundation shall be worked out. Based upon the test details and site conditions, type of foundation will be worked out by the Agency. Justification for adoption of foundation type will be part of the Geotechnical report.

#### 4.7 Miscellaneous:

**4.7.1** Geotechnical investigation report covering full length of Road portion. Bore log at specified location of Korosomo slip has to be carried out along with collection of samples of various strata in the prescribed manner and testing of samples etc. as per relevant specifications from approved laboratory.

**4.7.2** If the Consultant does not have facility of any of the laboratory tests indicated here in, he is at Liberty to get the testing done at any approved laboratory of repute at his own expense. In such a case however, the Consultant must explicitly state as to space where he intends to get the samples tested and have the prior approval of the WAPCOS Engineer.

**4.7.3** For open foundation, net allowable bearing capacity including expected settlement, measures to replace bad soil patches shall be recommended.

**4.7.4** Report of suitability of the type of foundation will be submitted by the agency. Justification for adoption of pile foundation if any, will be part of the Geotechnical report.

#### 5.0 Duration of work

The total duration for completion of Geotechnical Investigation survey including submission of final report shall be **1 Month** from the date of award of work.

Mobilization of manpower and equipment complete should be done within 7 (seven) days of Issuing Work order to the successful bidder. The successful bidder should mobilize team in the region for timely progress of work.

## 6.0 Award of Work

The work will be awarded to the bidder who has quoted the lowest rate i.e. on Least Cost Selection (LCS) basis.

## 7.0 Extension of time

The time allowed for execution of the work(s) **is 1 (one) month** from the date of award of work. Time is essence of the contract in case the work is delayed for justifiable reasons included under force majeure or other such reason beyond the control of the Agency, the Agency will write to WAPCOS, reason for such delay and request for an extension of date of completion without penalty. Such a communication must reach to WAPCOS within seven (7) days of noticing or realizing the reason for delay.

Upon receiving the request for extension of time, WAPCOS will examine in detail the reason for delay and the probable extended date as requested for. In case WAPCOS is convinced about the reason, an extension of time shall be granted within fifteen (15) days of receiving such request to the contractor without any additional claim for negotiating with the delay either to the Agency or to WAPCOS.

## 8.0 Payment Terms

The Sequence of Payment shall be as such:

Stage	Sr. No.	Milestone	% Payment	% Cumulative payment
<b>1</b>	i.	Completion of Geotechnical Investigation (Boreholes)	20	20
	ii.	Submission of Draft Geotechnical Report (Inclusive lab report)	20	40
	iii.	Submission of Final Geotechnical Report	30	70
	iv.	On Approval of the Final Report by client	30	100

The bidder should acknowledge that under the current contract WAPCOS is only working as intermediately between the Client and the Bidder. Thus, the

Bidder unconditionally acknowledges that the payments under the present contract shall be made proportionately by WAPCOS only on back to back basis upon invoice, as per the actual work done by the agency, within 21 days' subject to the receipt of the payment instalments by WAPCOS from respective Client of the Project.

Further, Bidder shall unconditionally agree that in the event of payment or part thereof, under the respective project is not received from the Client, then WAPCOS or any of its Employee/Official shall not be responsible to pay any amount to the Bidder. The said condition shall supersede any and all other conditions of Contract/ Agreement/ Work Order/ Arrangement between the parties. The Bidder shall comply with the laws and taxes as applicable. Payment shall be made in Fijian Dollars (FJD). Payment shall be made on **back to back basis** after deductions of applicable taxes, duties etc. All Payments Shall be released on back to back basis after receipt of corresponding payment by WAPCOS from the client.

## **9.0 Programme**

The Agency (Successful Bidder) shall furnish full particular of their programme of field/ home office activity proposed for execution of the contract within seven days of the issuance of Work Order.

## **10.0 Agency (Successful Bidder) Superintendence and Obligations**

- The bidder shall mobilize the team to the sites within 7 days from issue of Letter of Award of work.
- The successful bidder shall be fully responsible for work carried out during the project and other related studies and this should be complete, adequate and workable.
- The successful bidder is liable to WAPCOS as WAPCOS is liable to the CLIENT for carrying out the PROJECT related activities.
- The successful bidder shall intimate the employer within 3 (three) days the name of the authorized person, who will be responsible for field activity and day to day interaction with the employer's authorized representative for field activity.
- The successful bidder shall remain fully responsible for the accuracy and relevancy of all the investigation & field activities and for subsequent processing of field data including generated outputs. Sub-contracting of any part or whole of the works is prohibited and these provisions shall be strictly adhered to. In the event of sub-contracting of any part if detected, the contract shall be liable for termination forthwith without assigning any reason thereafter.

- The team personnel proposed for this project must have desired experience in respective areas of work.
- The successful bidder shall be responsible for the safety of the manpower engaged at site.

### **11.0 Liquidated Damages (LD)**

Time is the essence of the contract. Liquidated damages shall be levied against the agency in case of delay in completion of the work beyond the date of completion of job specified in contract. Liquidated damages shall be levied @ 0.5% of award value per week of delay beyond the stipulated date of completion when reasons for such delay are not attributable to WAPCOS. If the delay in execution of the job is attributable to WAPCOS only then WAPCOS reserves the right to consider waiver of Liquidated damages. Total LD shall not exceed 5% of contract value. The decision of Project In charge, WAPCOS Ltd., in this regard shall be final & binding.

### **12.0 Insurance**

The Agency (Successful Bidder) shall insure itself against any liability under any workmen compensation ordinance or equivalent prevailing legislation and any modifications thereof which may be put in force by the government during the continuance of the contract. In the event of any loss or damage suffered in consequence of any accident or injury or disease resulting from his work to any workman or other person in the employment of the Agency (Successful Bidder), the Agency (Successful Bidder) shall pay compensation to the victims. The Agency (Successful Bidder) shall in respect of his employees who are employed by him pay rates of wages, observed hours of labour and provide other facilities not less favourable than those required by law. The Agency shall indemnify the employer from all such claims arising from any such act or event of unsafe activities onsite during the project execution.

### **13.0 No Escalation Payable**

No escalation charge or additional amount whatsoever shall be paid to the Agency (Successful Bidder). In case, any delay occurs due to local hindrance the Agency (Successful Bidder) shall mobilize additional manpower and equipment/instruments to accelerate the work with a sole intention to compensate the lost time period. The contractor shall not be entitled to any payment on account of any accelerated effort if required to complete the work within the stipulated time period and is deemed to have included in the

quoted prices. The Agency (Successful Bidder) shall submit daily progress report to WAPCOS Engineer. The Agency (Successful Bidder) shall equip their site in-charge with mobile phone to facilitate communication and control over work progress. No compensation of any kind on account of jungle clearance/ objection by local officials/ stoppage of work by local people/ damage to cultivated fields etc. during the course of field surveys shall be entertained by WAPCOS at any stage.

#### **14.0 Force Majeure:**

The Inspecting Agency & successful Bidder shall ensure due compliance with the terms of this agreement. However, no party shall be liable for any claim for any loss or damage whatsoever arising out of failure is due to force majored events such as fire, rebellion, mutiny, civil commotion, riot, strike lock out. Force of nature, accident, act of GOD and any other reason beyond the control of concerned party. But any party claiming the benefit of this clause shall satisfy the other party of the existence of such event and give a written notice of 15 days to the other party to this effect. The services covered under this agreement shall be started as soon as practicable by the parties concerned after such eventuality has come to an end or ceased to exist.

#### **15.0 Dispute Resolution**

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, drawings and instructions herein before mentioned and as to the quality of workmanship or equipment used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, drawings, specifications, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof Shall be dealt With as mentioned hereinafter:

If the Agency considers any work or any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is resulting in a dispute, it shall be referred to the concerned authority who shall, within a period of thirty days after being requested by the Agency to do so, give written decision to the Agency. Upon receipt of the written decision of the concerned authority, the Agency shall promptly proceed without delay to comply with such decision.

#### **16.0 Arbitration**

Any dispute or claim arising out of or relating to this agreement or the breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the Rules of Arbitration of the UNCITRAL in force at the effective date of the Agreement. The parties agree to comply with the awards resulting from arbitration.

## 17.0 Bid Preparation and Submission Instructions:

The Bidders are required to prepare the tender as per below, all the proposals should be submitted in a sealed envelope clearly mentioning the firms name and addressed to personnel mentioned in CI 18.0.

The bidders are required to submit their proposals in **two separate sealed envelopes** as outlined below:

**Technical Proposal** – This envelope should contain all technical information and qualification documentation including the public liability insurance of FJD 250,000.

**Financial Proposal** – This envelope should contain the financial bid.

## 17.1 Submission Instructions:

Both technical and Financial proposal envelopes shall be clearly marked and put in a single envelope with the name of the Bidder, Name of the work and RFQ Number, mentioned and the same shall be delivered to the address mentioned in 18.0.

## 18.0 Submission Address

The sealed quotations (in hard copy only) must be delivered in a written form to the address below (in person) by 17:00 hours of **29<sup>th</sup> January 2025**.

### **The Country Manager (Fiji)**

#### **WAPCOS Limited**

95, Salato Road, Namadi Heights, Suva, Fiji Islands

Mob.: +679 2474536 E-mail: wapcosetc1@gmail.com

www.wapcos.co.in

**Note:** *The bidders are required to submit the signed copy of the RFQ as a token of acceptance of the terms and conditions along with the sealed quotations. Any quotations received without the signed copy of the RFQ will be considered as non-responsive and will summarily be rejected.*

**Annexure – 1****QUOTATION****Price Schedule**

Sl. No.	Description of Item	Unit	Quantity	Rate in FJD	Amount in FJD
1.	Mobilization & Demobilization of Team and Equipment from the site including shifting of platforms	Lump sum	1		
2.	Carryout boreholes of 150 mm nominal diameter at various locations in all types of soil including laterite using suitable approved method of boring including chiselling, cleaning, providing casing pipe as required or as directed performing standard penetration Test at every 1.5m interval and at change of strata; Undertake shear vane testing at 1.5m intervals at the end of the core while the core is still in the barrel; collection of distributed soil samples and water soil samples, sealing and packing of samples observation such as ground water table etc; transportation of all collected samples to the laboratory and back filling of bore holes on completion of the same etc all complete as per specification and directed by the engineer –in- charge for depth below ground level as given below:				
2a	Land Borehole - From Natural Ground Level upto 30 m : 3 Nos.	m	90		

3.	Core drilling NX Size in rock hydraulic feed rotary drill and double tube core barrel with diamond bit (Maximum of 5m below the rock bed or upto refusal which ever earlier) including collection of core samples, performing SPT at locations where core recovery is less than 20% maintaining continuous record of core recovery and RQD, keeping the cores in wooden core boxes, transporting to laboratory, back filling the holes with 1 part of cement:3 part of sand grout on completion of the same etc all complete as per specification and as directed by the Engineer –in-charge	m	15		
4.	Undertake machine excavated tests pits to a depth of 2.0 m using mechanical excavator and adjacent Dynamic Cone Penetration (DCP) tests to a depth of 2m or prior refusal at an interval of every 500m of proposed road alignment of Logging of test pits by geotechnical engineer as per AS 1726; Collection of bulk/disturbed samples from test pits; Backfilling and compaction of test pits. As directed by Engineer in charge of work	Nos	25		
5.	Conducting various laboratory tests as mentioned below on soil samples at an IANZ accredited laboratory including preparation of soil samples to determine the following properties of soil all complete as per standards. Types of tests on Undisturbed/Disturbed Samples of soil will be out of:				
5a	Bulk Density and Moisture Content	Nos	6		
5b	Sieve Analysis and Hydrometer Analysis.	Nos	6		
5c	Atterberg's Limits	Nos	6		

5d	Specific Gravity.	Nos	6		
5e	Unconfined Compressive Test on selected samples.	Nos	2		
5f	California bearing ratio test for test pits	Nos	15		
5g	Standard Proctor Compaction Test	Nos	15		
5h	Permeability test	Nos	5		
<b>6.</b>	Conducting various laboratory tests on rock samples at an IANZ accredited laboratory including preparation of samples to determine the following properties; all complete as per standards. Type of test on selected Rock Samples will be out of: -				
6a	Density & Specific Gravity	Nos	2		
6b	Unconfined Compressive strength test (Point load test shall be carried out for approx. assessment of strength if core required for U.C. strength test is not achieved.)	Nos	2		
<b>7.</b>	Preparation and submission of detailed report as per Terms of Reference with necessary graphs, drawings and laboratory test results, borelogs, etc. with recommendations.	Lump sum	1		
	Total in FJD				

**Note:**

- *The bidder quote must be inclusive of all taxes, duties, fees, levies, etc.*
- *The quotation submitted by the bidder shall be valid for a period of 120 (One Hundred Twenty) days from the date of submission of quotation.*
- *Conditional bid will summary be rejected as non-responsive.*