

Tel : (685) 21 611  
Fax : (685) 21990  
Private Bag, MWTI  
Website: [www.mwti.gov.ws](http://www.mwti.gov.ws)  
Level 4, TATTE Building, SOGI



Please, address all Correspondence to the  
Secretary for Transport/ Chief Executive  
Officer

File Ref:

GOVERNMENT OF SAMOA  
**MINISTRY OF WORKS, TRANSPORT & INFRASTRUCTURE**

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24 July 2025

Talofa to all our Bidders:

**Reference: Alaoa Multipurpose Dam Project – Geotechnical Site Investigation**

**Subject: Addendum No.3**

We hereby submit our official response through this addendum to address and clarify the queries raised (see Table 1) as follows;

**Table 1: Clarifications**

| No. | From                    | Date       | Bidders Queries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Clarification                                                                                                                                                                                                            |
|-----|-------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Tonkin & Taylor Limited | 26/06/2025 | <p><b>Clarification Deadline</b><br/>Please advise of the deadline for raising clarification question, and the deadline for the posting of answers to these?</p>                                                                                                                                                                                                                                                                                                                                                                           | August 1, 2025                                                                                                                                                                                                           |
| 2   | David Sage              | 26/06/2025 | <p><b>Pricing schedule</b><br/>we would like to develop the pricing schedule to include a section "I", which will set out the deliverables, reporting and other requirements of the project that aren't able to be adequately captured within sections A – H.</p>                                                                                                                                                                                                                                                                          | The pricing schedule shall be in line with the deliverables and reporting requirements as outlined in the Scope of Works. Field reporting should be included within items A to H. Final reports should be included in I. |
|     |                         | 01/07/2025 | <p><b>Extension of Time</b><br/>We are seeking a two (2) week Extension of Time (EOT) by MWTI, extending the closing date to the 28th of July 2025. This additional period of time would allow Stantec to provide MWTI with a detailed and precise offer to meet your requirements effectively which maintaining a comprehensive proposal.</p>                                                                                                                                                                                             | Noted. The deadline for submission will be extended until August 18, 2025. Please follow the corresponding site for updates.                                                                                             |
|     |                         |            | <p><b>Budget</b><br/>With reference to the significant work that forms this Geotechnical Investigation program and our Extension of Time clarification, we have noted in the ADB Procurement Plan that the budget for these works are in the region of \$1M USD. Upon review of the RFP documents, it is clear that significant effort has been put into developing the Scope of Works by MWTI and ADB. Stantec believes that the Scope of Works is in line with what we would recommend for a project of this size, in this location,</p> | The price quotation shall be in line with the scope. Please submit compliant offer even if over budget.                                                                                                                  |

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|  |                  |            | <p>providing a mechanism to significantly derisk the project prior to detailed design and construction stages. Any reduction in scope would potentially increase the risk to the project for MWTI and ABD, which in our experience results in both budget increases and schedule delays later on.</p> <p>Based on the above and our knowledge of the project, we are concerned that this budget is not sufficient for the works as scoped and could be out by a factor of 2.</p> <p>We are happy to provide a compliant price based on the scope of works but seek advice on whether we should provide a scope that is more in line with the budget nominated in the ADB procurement plan (as a non-compliant offer).</p>                                 |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  | Grace Westenberg | 02/07/2025 | <p><b>Clarification Deadline</b></p> <p>Could you please advise of the deadline for raising clarification question, and the deadline for the posting of answers to these?</p> <p><b>Price Schedule</b></p> <p>There is no obvious place in the price schedule for the following:</p> <ul style="list-style-type: none"><li>- Provision of necessary engineering supervision for the drilling and test pitting (SI. No B). Please clarify whether the engineering supervision should be included in the drilling meter rate / test pit rate or added as a new line item.</li><li>- Preparation of the required deliverables QMP, ESMP, SMP, LCRP, Geological factual report and geological / Geotechnical interpretative report. Please clarify.</li></ul> | August 1, 2025 | <ul style="list-style-type: none"><li>• Noted. The engineering supervision for the investigation work shall be included in the drilling meter rate / test pit rate.</li></ul> <p>Alternatively, you may provide the detail break-up price to consider.</p> <ul style="list-style-type: none"><li>• Noted. The deliverables are mandatory for smooth execution of the work and completion of the milestone to release of the payment. Hence, no separate column is required during the submission of the bid.</li></ul> |

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|  | Stantec | 14/07/2025 | <p><b>Core Orientation</b></p> <p>In reference to the SoW Section 3.4.5 (page 34), we note a requirement to accurately measure core orientation and the SoW suggests that a suitable method - such as mechanical tools used during drilling - may be adopted. However, this requirement does not appear to be referenced elsewhere in the SoW. Given that the ATV/OTV systems provide detailed dip-and-dip direction data for discontinuity orientation, we have assumed that this method is acceptable for fulfilling the core orientation requirement. This approach would negate the need for additional mechanical orientation tools, which can be costly and redundant. Could you please confirm whether this assumption is acceptable?</p> | <p>Yes, OTV/ATV system will provide the dip-and-dip direction data for discontinuity orientation accurately even in an angular hole with precautions.</p> <p>While ATV/OTV logging provides structural data, it captures discontinuity orientation from the borehole wall—not from the drilled core itself—making it unsuitable for direct core orientation measurements. Therefore, bid price in a separate column to measure core orientation by suitable mechanical or electronic tools (e.g., Reflex ACT, Devicore, Trucore, or Reflex Ez-Mark) shall be provided.</p>                                                                       |
|  |         |            | <p><b>DHS and Grout Holes</b></p> <p>The SoW requests downhole seismic testing in three grout holes and two control holes, which requires the installation of solid PVC casing grouted in place to ensure high-quality data collection. However, once the borehole is sealed with grouted casing, it is unclear how grout testing program is expected to be conducted afterward. Could you please provide further guidance on how grout testing should be approached in these cases? While removing the casing is technically possible, doing so may alter the rock mass permeability and potentially compromise the integrity of the grout test results.</p>                                                                                    | <p>Noted. We acknowledge your concern regarding the installation of grouted PVC casing for DHS and its potential impact on subsequent grout testing. The intended sequence of operations is as follows:</p> <ol style="list-style-type: none"> <li>1. Primary Drilling &amp; Logging: Complete drilling and all necessary logging activities, including borehole geophysics (e.g., ATV/OTV), to identify weak zones and characterize subsurface conditions.</li> <li>2. Grout Testing (Pre-Casing): Grout testing—such as Lugeon or pressure tests—should be carried out prior to DHS and PVC casing installation, while the borehole</li> </ol> |

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|  |  |                                                                                                                                                                                                                                                                                                                   | <p>remains open and unlined. This ensures that test results reflect the in-situ rock mass permeability without interference.</p> <p>3. DHS Execution (Post-Grouting of Casing): Following grout testing, the PVC casing can be installed and grouted in place to ensure optimal coupling for DHS per ASTM D7400-08.</p> <p>This sequence is intended to preserve the integrity of both test types while adhering to the technical requirements of the SoW. Removing the casing post-DHS is not advised, for the reasons you mentioned.</p>                                                                                                                                                                                                                                         |
|  |  | <p><b>Draft Initial Report</b></p> <p>In relation to the Initial Report, we have assumed that the Draft Initial Report to be submitted as part of our RFP response will mostly be formed by headings with very limited text, intended to convey to MW/TI our intended layout and structure within the report.</p> | <p>Please refer to Section 3.2.1 of the SOW and the structure of the Initial Report.</p> <p>The report headings with limited text are insufficient. The Draft Initial Report should contain enough details about the following to demonstrate the proposed work program has been well thought-out;</p> <ul style="list-style-type: none"> <li>- program for the entire work detailing field work, laboratory testing, and the submission of draft and final investigation reports considering the priority of works;</li> <li>- Quality Assurance and Quality Control Plan including all procedures;</li> <li>- general project management plan including but not limited to manpower, and a list of equipment proposed for the geotechnical site investigation work, a</li> </ul> |

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|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>safety management plan and environmental management plan as per the contract, spares, tangibles and consumables list;</p> <p>- method statements for SRT, ERT, pits excavation, drilling, coring, downhole data acquisition (seismic, ATV/OTV, pressure testing) and grouting test.</p> |
|  |  |  | <p><b>Visas</b><br/>Can you please confirm that it will be acceptable to nominate MW/TI as the Sponsor for Temporary Residence Permits as part of the Temporary Resident Sponsor Forms for each of our team members?</p>                                                                                                                                                                                                                                                                                                                                              | <p>MW/TI will provide a confirmation letter.</p>                                                                                                                                                                                                                                           |
|  |  |  | <p><b>Lab Testing</b><br/>In coordination with our selected Lab Testing provider, we have determined the equivalent AS/NZS standard to each test required, which we consider to be relevant to the Alaoa Multipurpose Project. Can MW/TI please confirm that this will be acceptable, noting that the stated ASTM testing is widely unavailable in the Pacific region, whereas most labs can test to AS/NZS standards.</p>                                                                                                                                            | <p>Equivalent AS/NZS standards can be used confirming to the ASTM.</p>                                                                                                                                                                                                                     |
|  |  |  | <p><b>Pricing Schedules</b><br/>In preparing our proposal and upon review of the RFP and Scope of Works, we note the requirements for reporting and deliverables to MW/TI during the project. However, we don't believe that pricing schedules A through H provide line items to set out the pricing associated with these deliverables and reporting requirements. To provide transparent pricing to MW/TI, we would like to develop the pricing schedule to include a section "I", which will set out the deliverables, reporting and other requirements of the</p> | <p>The pricing schedule shall be in line with the deliverables and reporting requirements as outlined in the Scope of Works.<br/>Field reporting should be included within items A to H. Final reports should be included in I.</p>                                                        |

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|   |                              |            | <p>project that aren't able to be adequately captured within sections A - H. Please confirm your acceptance of this approach.</p> <p><b>Project Value</b></p> <p>With reference to the significant work that forms this Geotechnical Investigation program and our Extension of Time clarification, we have noted in the ADB Procurement Plan that the budget for these works are in the region of \$1M USD. Upon review of the RFP documents, it is clear that significant effort has been put into developing the SoW by MWTI and ADB. We believe that the Scope of Works is in line with what we would recommend for a project of this size, in this location, providing a mechanism to significantly de-risk the project prior to detailed design and construction stages. Any reduction in scope would potentially increase the risk to the project for MWTI and ABD, which in our experience results in both budget increases and schedule delays later on. Based on the above and our knowledge of the project, we are concerned that this budget is not sufficient for the works as scoped and could be out by a factor of 2. We are happy to provide a compliant price based on the scope of works but seek advice on whether we should provide a scope that is more in line with the budget nominated in the ADB procurement plan (as a non-compliant offer).</p> | <p>The price quotation shall be in line with the scope. Please submit compliant offer even if over budget.</p>                      |
| 3 | Coffey Services (NZ) Limited | 27/06/2025 | <p><b>Extension to RFQ Request</b></p> <p>As this is such a complex scope of work, we need to do our due diligence and get it right first time, to produce a cost-effective proposal. We are requesting an extension to the RFQ deadline of 14 July to 4 August 2025. This still allows</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Noted. The deadline for submission will be extended until August 18, 2025. Please follow the corresponding site for updates.</p> |



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|  |            | 7 weeks for review before the programmed award on October 2025.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | 02/07/2025 | <p><b>Drilling</b><br/> <b>Table 3.2 Borehole and test pit details</b><br/> Is OTV/ATV required in Grout trial holes?</p> <p><b>3.4.6 Completion of hole</b><br/> Holes without permanent installations (piezometers and 50mmPVC(for Vp-Vs testing) will be backfilled with grout - Grout quantity is unknown, we propose additional line item for grout per litre or cubic metre is added. Please confirm this is acceptable?</p> | <p>Yes, it is required as mentioned in the scope of services and specifications. Before grout trial, OTV/ATV must be completed.</p> <p>Due to variable subsurface conditions, it is difficult to predetermine grout quantity. However, indicative depths provided under Table 3.2, Section 3.4.3, may be used for estimation. The Contractor is advised to maintain a log register of cement bag consumption per meter of drilling, under supervision of the Engineer-in-Charge., which will facilitate the quantity estimation and costing.</p> |
|  |            | <p><b>3.4.7 Boxing and storing of core samples and wash samples</b></p> <ul style="list-style-type: none"> <li>• Are plastic stackable core trays allowable?</li> <li>• Film/foil/wax coating of select core samples - what is quantity &amp; length to allow for each sample?</li> </ul>                                                                                                                                          | <ul style="list-style-type: none"> <li>• Plastic stackable core trays are not acceptable due to potential deformation over time. Use of metallic or other rigid, non-deforming trays is required.</li> <li>• Sample coating quantity will depend on core recovery. For estimation, a running meter length of 1.0 m is recommended. Payment could be made on a pro-rata basis.</li> </ul>                                                                                                                                                         |
|  |            | <p><b>3.4.13 Groundwater</b></p> <ul style="list-style-type: none"> <li>• 50mm pvc piezometer stated, propose a PQ (123mm)size hole to allow to tremmie pea metal and bentonite seal.</li> </ul>                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• PQ size hole is not preferred considering the higher chances of collapsing of the side wall and material handling during drilling activity. Therefore, it is suggested to do the</li> </ul>                                                                                                                                                                                                                                                                                                             |



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|  |  |  | <ul style="list-style-type: none"> <li>Unknown length of piezos - we propose a per metre rate</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>same in NX size hole as specified. However, it is suggested to provide PQ size drill hole rate for comparison.</p> <ul style="list-style-type: none"> <li>Noted and accepted. It is suggested to provide the per metre rate for the same.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|  |  |  | <p><b>3.4.14 Packer tests</b></p> <p>Packer tests Unknown duration depending on ground conditions/ability to seal wall of hole, water take etc. We propose each packer test is allowed to take 1.5 hours. Anything over/under being an hourly rate. Please confirm this is acceptable?</p> <p><b>3.5.1 Methodology</b></p> <ul style="list-style-type: none"> <li>A 50mm pvc casing will need to be grouted in place. Due to possible excessive grout volumes to grout to surface, we propose a grout sock be installed over the PVC, grouted from bottom of hole inside grout sock. Please confirm this is acceptable?</li> <li>ATV/OTV - To allow efficient use of technician time, propose to install a 90mm pvc through the top 9m of the borehole to case off any unstable ground. This would allow multiple boreholes per trip by the geophysical technician. Please confirm this is acceptable?</li> </ul> <p><b>3.6.3 a) and 3.6.4 b) Rotary core drill for groutability trials.</b></p> <p>N size is mentioned. We propose HQ size hole.</p> | <p>The time given is adequate to perform one test in the drilled hole. It is suggested to do the test within the time frame to execute the work efficiently.</p> <ul style="list-style-type: none"> <li>Noted. It is suggested to place the grout sock in unstable/gravelly zone to tackle the chances of collapsing of side wall, if encountered during execution.</li> <li>Installing a PVC casing to 9 m may obstruct clear interpretation of shallow sub-surface layers during OTV/ATV logging. Hence, this method is not recommended.</li> </ul> <p>Yes. It is suggested to follow the specification mentioned in the tender document.</p> <p>Not accepted as the dia of the HQ size holes, is larger than NX, may increase the risk of borehole collapse and require additional</p> |

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|   |             |                                                                                                                                                                                                                                                                                                                                                                                 | <p>stabilization. Hence, drilling should follow the NX-size specification as per the tender for consistency and safety.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|   |             | <p><b>3.6.7 c) grout volume</b></p> <ul style="list-style-type: none"> <li>Using table 3.6 Tentative GIN parameters - V-max would have a max volume for a 5m test zone: 35- 40m -1000L; 30-35m-750L; 25-30m-750L; 20-25m-750L; 15-20m-750L; 10-15m-500L; 5-10m-500L; 0-5m-375L= Total of 5375L for a 40m hole with 5m test zones. Please confirm if this is correct?</li> </ul> | <ul style="list-style-type: none"> <li>The intention of grout trial &amp; the geological condition are discussed as per previous investigation. Given that if contractor has estimated the volume for his preparedness, he can do so but at this stage prior to grout trial GIN cannot be confirmed. The grout trial will help determine the optimal GIN parameters, ensuring effective grouting and achieving the desired outcomes.</li> <li>Time duration per test will be reviewed accordingly, and additional hourly/day rate may be discussed if justified.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4 | Chris Freer | 02/07/2025                                                                                                                                                                                                                                                                                                                                                                      | <p>It is unknown what time it will take to carry out each test. We propose an additional hourly or day rate for this. Please confirm this is acceptable?</p> <p><b>Appendix A: Scope Of Services &amp; Specifications</b></p> <p><b>Section 3.4.3-Table 3.3 Field test details</b></p> <p>Piezometer boreholes currently also have Vp-Vs testing which will require 50mm PVC to be grouted in place. The PVC ducts to be installed for the Vp-Vs survey clash with the proposed piezometer installations. Please clarify.</p>                                               | <p>Noted. Piezometer installation is possible even in boreholes planned for Vp-Vs testing, provided that the testing is completed prior to piezometer installation. Vp-Vs testing typically requires temporary installation of 50mm PVC casing for acoustic coupling. Once the Vp-Vs testing is completed, the casing can be removed, and the borehole can be cleaned and reconditioned for piezometer installation. This sequential approach optimizes borehole usage and avoids the necessity of additional drilling, ensuring both</p> |

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|  |  |                                                                                                                                                                                                                                                                                                                                                                | geophysical and hydrogeological objectives are met efficiently.                                                                                                                                                                                                                                                                                                                     |
|  |  | <p><b>Section 3.4.6-Completion of hole</b><br/>There is no obvious place in the Price Schedule to include this item.<br/>Please clarify.</p>                                                                                                                                                                                                                   | The hole completion shall only be acceptable after validation of work and data by the engineer-in-charge at site. All electronic data files generated from the site investigation should be submitted to the Employer after completion of the geotechnical studies and must be provided in high quality and suitable/accessible format (e.g.: pdf, text files, CSV format, JPG etc) |
|  |  | <p><b>Section 3.4.13-Groundwater</b><br/>Groundwater level is relatively deep so PQ would be required for installation.<br/>Please confirm.</p>                                                                                                                                                                                                                | Not accepted as the dia of the HQ size holes, is larger than NX, may increase the risk of borehole collapse and require additional stabilization. Hence, drilling should follow the NX-size specification as per the tender for consistency and safety.                                                                                                                             |
|  |  | <p><b>Section 3.4.13-Groundwater/Annexure I: Price Schedule</b><br/>The Entura reports indicate that the depth to groundwater is relatively deep at the dam abutments. Providing a meter rate (as opposed to Lump Sum) would be more practical and provide greater flexibility. Please confirm if a meter rate for installation of PVC pipe is acceptable.</p> | Noted and accepted. It is suggested to provide the per metre rate for the same.                                                                                                                                                                                                                                                                                                     |
|  |  | <p><b>Section 3.6.3 a) and 3.6.4 b) Rotary core drill got grout ability trials</b><br/>Section 3.6.4 b) refers to 76 mm 'N size' core. This is contradictory to Section 3.4.2 "Equipment" which requires "H size". -HQ size has 96 mm outer diameter and 63 mm</p>                                                                                             | Yes. It is suggested to follow the specification mentioned in the tender document.                                                                                                                                                                                                                                                                                                  |

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|  |  | core sample diameter. - NX size has 76 mm outer diameter and 54 mm core sample diameter. Please clarify.                                                                                                                                                                                                                                                                                           | Noted. It is the Contractor's responsibility to make the "HQ" size available at site. In case of requirement the driller can use the "HQ" size at the upper reaches followed by NX size by using coupling. Accordingly, Contractor may include this item in his price bid separately.                                                                                                                                                                               |
|  |  | <p><b>Section 3.6.7 a) grout volume</b></p> <p>Using table 3.6 Tentative GIN parameters - V-max would have a max volume for a 5m test zone: 35- 40m - 1000L; 30-35m-750L; 25-30m-750L; 20-25m-750L; 15-20m-750L; 10-15m-500L; 5-10m500L; 0-5m-375L = Total of 5375L for a 40m hole with 5m test zones. Please confirm if this volume is correct?</p>                                               | <p>The grouting GIN parameters will be subject to review by the Employer based on the results of the grouting trial and may be validate during the grouting trial progresses at site.</p> <p>The volume estimates are noted and will be used as reference. Final confirmation will be based on actual site behaviour during grouting trials. Time duration per test will be reviewed accordingly, and additional hourly/day rate may be discussed if justified.</p> |
|  |  | <p><b>Section 3.4.13-Groundwater/Annexure I: Price Schedule</b></p> <p>We propose a Provisional Sum (rate only) for this work based upon a day rate to be included as a new line item in the Price Schedule - Table D. Please confirm if this is acceptable.</p>                                                                                                                                   | Noted. Day rate is not accepted. Instead, provide per meter rate for such cases.                                                                                                                                                                                                                                                                                                                                                                                    |
|  |  | <p><b>Price Schedule</b></p> <ul style="list-style-type: none"> <li>• There is no obvious place in the price schedule for the following: - Provision of necessary engineering supervision for the drilling and test pitting (SI. No B). Please clarify whether the engineering supervision should be included in the drilling meter rate / test pit rate or added as a new line item. -</li> </ul> | <ul style="list-style-type: none"> <li>• Noted. The engineering supervision for the investigation work shall be included in the drilling meter rate / test pit rate. Alternatively, you may provide the detail break-up price to consider.</li> </ul>                                                                                                                                                                                                               |

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|  |  |  | <ul style="list-style-type: none"><li>• Preparation of the required deliverables QMP, ESMP, SMP, LCRP, Geological factual report and geological / Geotechnical interpretative report. Please clarify.</li></ul> | <ul style="list-style-type: none"><li>• Noted. The deliverables are mandatory for smooth execution of the work and completion of the milestone to release of the payment. Hence, no separate column is required during the submission of the bid.</li></ul> |
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Sincerely,



Talamau Della Savainaea  
Acting Chief Executive Officer