

MINISTRY OF HOUSING AND LANDS

Date: 13 April 2026

Dear All,

ADDENDUM No 1/ MHL/OAB 17/2025-2026

Selection of Consultant for the Design and Implementation of Digital Twin Project Network

Please refer to the above tender.

We are hereby informing bidders that

1. EXTENSION OF CLOSING DATE:

The closing date has been extended to the following date and time: **13.30 hours, Monday 27th April 2026.**

2. CLARIFICATIONS NO 1

S.N.	Clarifications requested on bidding documents	Ministry of Housing and Lands – Clarifications
1.	How does MHL define a “Digital Twin” for this programme, including the intended scope, level of fidelity, and the expected relationship between physical assets, real time data, and virtual models within the national planning and decision support environment?	Selected consultant needs to define same. Refer to objectives of Phase I on the consultancy exercise
2.	What is the long-term vision for the Digital Twin within the organisation’s transformation strategy?	Selected consultant needs to define same. Refer to objectives of Phase I on the consultancy exercise
3.	What business problems or operational pain points drove the initial need for a Digital Twin?	Refer to section 1.1 of the bidding document Background/ Introduction of this consultancy

4.	Are there any priority use-cases already identified (e.g., flood modelling, land-use planning, infrastructure planning), or should the consultant identify and prioritise use-cases as part of Phase 1?	The consultant identifies and prioritises use-cases together with the Ministry
5.	Is MHL considering predictive analytics and real-time decision support into its Digital Twin framework, or is the model limited to visualization and simulation capabilities only?	Predictive analytics and real time decision should also be supported. Refer to Scope of assignment for Phase I
6.	Has the Client undertaken any previous pilot initiatives, proofs of concept, or early stage Digital Twin projects?	No
7.	Will the pilot-first architecture be the definitive model at the national level, or does MHL plan to incorporate additional functionalities in Phases 2 and 3?	The Final Strategic Report and detailed technical specifications delivered during Phase I will be used during Phase II and III
8.	Are there any planned future integrations between the Digital Twin and other enterprise systems, platforms, or national digital infrastructure initiatives?	Selected consultant needs to define same. Refer to objectives of Phase I on the consultancy exercise
9.	Has MHL already conducted any data inventory, data categorization (Structured, Unstructured, Raw data etc) and maturity assessment across Ministries, or should bidders assume to carry out this as part of Phase 1?	Selected consultant needs to define same. Refer to objectives of Phase I on the consultancy exercise
10.	Does Government already have any pre existing studies, strategy documents, or assessments related to Digital Twin, GIS, NSDI, IoT, or smart city initiatives to be used as inputs?	No

11.	Who will be the data owners and custodians for cross-ministerial datasets used in the Digital Twin? Are there current legal or regulatory constraints on inter-agency data sharing that MHL wants to call out explicitly?	Selected consultant needs to recommend legal amendments or new legislation to enable data integration, sharing, security and institutional governance. Refer to objectives of Phase I on the consultancy exercise
12.	Does MHL expects the consultant to remediate data quality issues, or only recommend remediation?	The Consultant will only recommend the remediation.
13.	Does the Government have a preferred cloud policy (public cloud, sovereign cloud, hybrid, on-prem), or should bidders present multiple architectural options with risk analysis?	The preferred Cloud is Government of Mauritius private cloud. However, the selected consultant needs to assess cloud vs on-premises hosting options with a cybersecurity risk assessment. Refer to objectives of Phase I
14.	Is MHL expecting a vendor-neutral Digital Twin architecture, or is alignment with specific technology provider or platforms acceptable?	Vendor -neutral
15.	What are the SLA levels MHL expects for both Cloud and On-Prem systems?	Selected consultant needs to define same. Refer to objectives of Phase I
16.	Should the Digital Twin security architecture align with specific national or international frameworks (e.g., ISO 27001, NIST)?	Selected consultant needs to define same. Refer to objectives of Phase I on the consultancy exercise
17.	What is the role of Independent IT Security Advisor? Is it only limited to Architecture design or will they provide guidance on National/International Security Standards for code, configuration and deployment?	Selected consultant needs to define same. Refer to objectives of Phase I on the consultancy exercise
18.	Who will manage the sensitive Geospatial, Infrastructure data?	Selected consultant needs to recommend same
19.	Is the expectation that the Digital Twin will be operated by: a. A single Ministry? b. A central digital authority?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I

	c. A government multi agency model?	
20.	Who will be the owner of Digital Twin Platform post-go-live?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
21.	Should change management include end-user adoption, training (upskilling), policy enablement, or only technical enablement?	Change management should include end-user adoption, training (upskilling), policy enablement and technical enablement
22.	What types of physical assets are available and should be included in the digital twin?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
23.	How are field devices connected today? (PLC / RTU, Gateway)?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
24.	Is there an edge layer already? (SCADA, Kepware, custom gateways)	No
25.	What networks are used? (Fiber / Ethernet, Cellular (2G/4G/5G), LPWAN)	Fiber, Ethernet and 5G available across Mauritius
26.	Are there known latency or bandwidth constraints?	No
27.	Is data centralized or fragmented across departments?	Data is fragmented
28.	Do you have a preferred platform (Siemens NX, Ansys, Thing Worx, Dassault), or an existing platform in use?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
29.	Can MHL confirm that the Phase 1 consultant is eligible to participate in Phase 2/3 oversight without conflict of interest, provided they do not bid as an implementation vendor?	Refer to ITC 1.6.1 of the bidding document.
30.	During Phase 2 & 3, which agency (IT, Ministry, Governance) from MHL will be responsible for conflict management between	Ministry of Housing and Lands

	implementation vendor and the consultant (supervisory role)?	
31.	Who will own responsibility for: <ul style="list-style-type: none"> • Device onboarding? • Connectivity issues? • Sensor calibration? 	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
32.	How will success be measured post-go-live?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
33.	What KPIs will demonstrate value within 6–12 months?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
34.	Should Phase 1 technical specifications be: <ul style="list-style-type: none"> • High level functional requirements, or • Detailed system, data, and integration specifications? 	Detailed system, data, and integration specifications. Refer bidding document for more details
35.	Who will define the scope of Pilot – MHL or Selected Consultant (based on the feasibility and value-driven outcomes)?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
36.	What are the success criteria for the Digital Twin Pilot implementation?	Selected consultant needs to recommend same in collaboration with the Steering Committee. Refer to objectives of Phase I
37.	5.2 Consultancy Firm – Relevant Experience The consultancy firm should have provided consultancy services for the design and implementation of least one DIGITAL TWIN project within the last 5 years with the following criteria: a) experience in: <ul style="list-style-type: none"> • consultancy/design, and • monitoring of the implementation of a DIGITAL TWIN b) a Local Counterpart/Partner in Mauritius. c) the team of Experts must be proficient in English.	The “Consultancy Firm – Relevant Experience” is maintained

	<p>The bidder must substantiate the above reference projects by attaching the corresponding testimonial signed by its customer as evidence of satisfactory performance. In case of non-submission of testimonial, reference project may not be considered for evaluation purposes.</p>	
<p>38.</p>	<p>Staff Qualifications and Experience The Consultancy Firm should provide a team comprising of a Lead Expert and Expert, as follows: (a) Lead Expert (Digital Twin Architect) The Lead Expert should at least have: 1. a bachelor’s degree in information and communication technologies or any other related field acceptable to the client. 2. a master’s degree in fields such as Digital Engineering/Cyber-Physical systems/simulation & modelling/IoT systems. 3. Professional Certification in Digital Twin would be an advantage. 4. Minimum of 5 years post qualification experience in Digital Twin for urban planning or related field. 5. been involved in at least one Digital Twin projects related to Smart Cities/Infrastructure in the last five (5) years. (b) Expert (Digital Twin Engineer) The Expert should at least have: - 1. a bachelor’s degree in information and communication technologies or any other related field acceptable to the client 2. Professional Certification in Digital Twin platforms and tools</p>	<p>The Staff Qualifications and Experience is maintained</p>

	<p>like Siemens NX, Ansys Twin Builder, PTC ThingWorx, Dassault Systems. would be an advantage.</p> <p>3. Minimum of 3 years post qualification experience in Digital Twin for urban planning or related field.</p> <p>4. been involved in at least one Digital Twin projects in the last five (5) years.</p>	
39.	General Clause – Consortium	Refer to ITC 3.3 of the bidding document.
40.	<p>1.8.1: The Client shall not consider a proposal from a Consultant which do not satisfy the registration requirements as spelt out in this clause “</p> <p>(a) In accordance with CIDB Act 2008, Consultants, whether local or foreign under an existing or intended joint venture operating in the construction sector have the statutory obligation to be registered with the Construction Industry Authority (CIA), as appropriate, prior to bidding for the project.</p> <p>(b) Consultants are strongly advised to consult the website of the CIA https://ciamauritius.org/ for further details concerning registration of consultants. “</p>	<p>Registration not required</p> <p>There are 15 Fields of Specialisation under which a Consultancy Firm can register: Architecture; Building Surveying; Civil and Structural Engineering Services; Electrical Engineering Services; Environmental Engineering Services; Environmental Impact Assessment; Interior Design; Landscape Architecture; Mechanical, Electrical and Plumbing (MEP) Engineering Services; Mechanical Engineering Services; Project Management in Construction; Quantity Surveying, Strategic Environmental Assessment; Third Party Certification; and Urban Planning.</p>
41.	<p>An IT consultancy firm intends to respond to the above-mentioned RFP in collaboration with a company which operates in other specialised construction activities. The IT Consultancy firm will act as the prime bidder, and both entities are local companies. With reference to Clause 1.81 of the “Instructions to Consultants” section, we kindly request confirmation as to whether the IT Consultancy firm and/or the company operating in other specialized activities are required to be registered with the</p>	<p>Section 5: Terms of Reference - Team Composition requires on expert from a consultancy firm in urban planning and accordingly the consultancy firm should be registered with CIA. Refer to ITC 1.8.1 of the bidding document</p>

	Construction Industry Authority (CIA) prior to the submission of a proposal.	
42.	Does the project scope cover the entire territory of Mauritius, or is it limited to a specific area?	The scope is for Digital Twin in Mauritius
43.	Does the client already have a clear understanding of Digital Twin and GIS/BIM concepts, or will preliminary awareness activities be required?	Client has an understanding
44.	What level of detail is expected for each of the deliverables?	Please refer to bidding document for deliverables
45.	Is the physical presence of the lead expert in Mauritius mandatory, or would a remote working arrangement (from France) be acceptable?	Physical presence would be required. Refer to bidding document.

3. Any inconvenience caused is much regretted.

Yours faithfully,

Mrs B. W. Takun-Allymun

Secretary DBC