



**MINISTRY OF MINING, BLUE ECONOMY AND
MARITIME AFFAIRS
STATE DEPARTMENT FOR THE BLUE ECONOMY
AND FISHERIES**

**Kenya Marine and Fisheries Socio-Economic Development
Project (KEMFSED)
P.O. Box 58187-00200 NAIROBI**

ADDENDUM 1

This is in reference to tender advertisement appearing in The Star Newspapers on 14th January, 2025 - tender for Design, Supply, Installation and Deployment of Fisheries Information Management System (FIMS) in Kenya

S/NO	CONCERN	CLARIFICATION
1.	Is the invitation to bids open to all eligible firms, or were certain firms previously shortlisted during an EOI stage?	The tender is open to all Prospective Bidders. No shortlist was done previously.
2.	Please refer to your request for bids document for the above mentioned project. I have noted that, no particular clause in the whole of this document mentions	The bid submission deadline date is clearly indicated is amended to read 6 th March, 2025

	the exact date deadline for the proposal submission. It is only written as “January, 2025 at 1100hrs (Local EAT Time)” Does this mean deadline date to be January 31st 2025	
3.	Mandatory requirements	<p>The Bidder shall submit with its Bid the following Mandatory documents:</p> <ul style="list-style-type: none"> a. Bidder Information form in accordance with the formal (Clearly showing the shareholders/owners of the company or business). b. Must submit a copy of Valid Tax Compliance Certificate. c. Must Submit a Copy of CR12 from the registrar of companies showing the list of Company’s Directors issued within the last six months or a copy of IDs in case of a Business Registration. In case of a Joint Venture Both Companies must submit a copy of CR12 or Copy of ID for Sole Proprietor d. Bid Security shall be Kenya shillings Two Hundred and Fifty Thousand (KES. 250,000.00) e. Technical Specifications dully filled. f. Dully filled Code of Conduct form for Service Provider’s Personnel. g. Original Tender document must be TAPE-BOUND and submitted alongside with a Soft Copy.
4.	ITB 16.3	<p>In the interest of effective integration, cost-effective technical support, and reduced re-training and staffing costs, Bidders shall offer the following items:</p>

		Module/Item	Proposed Brand/Model or Standard	Cross-Reference to Purchaser’s Requirements
		Database Management	MySQL (or MariaDB for a fully open-source stack)	Data storage and management as specified under “System Architecture” in Section VII, with high availability and scalability.
		Application Framework	Java Spring Boot with Hibernate JPA	Supports scalable back-end operations as outlined in the "Back-End" requirements under Section VII.
		User Interface (UI)	Bootstrap (Latest Version) with Thymeleaf	Ensures responsive design for cross-platform usability, meeting “Responsive Design” requirements in Section VII.
		Reporting and Analytics	R Scripts and R Shiny Framework	Complies with "Reporting and Analytics" section for advanced statistical processing and dashboard creation.
		GIS Integration	Leaflet.js or OpenLayers	Maps vessel locations and regulatory zones as per “GIS and Mapping” requirements in Section VII.

		<p>Mobile Data Collection Kobo Toolbox Integration</p> <p>Security Protocols AES-256 Encryption & SSL/TLS</p>	<p>Seamless offline and online data collection as stated under “Mobile Integration and Data Collection.”</p> <p>Meets “Data Encryption” and security compliance requirements under Section VII.</p>															
5.	Qualification Requirements	<table border="1"> <thead> <tr> <th>Key Personnel</th> <th>Academic Requirements</th> <th>Professional Requirements</th> <th>Specific Experience</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1. Lead IT Consultant</td> <td>- Bachelor’s degree in Computer Science, Software Engineering, or IT-related field.</td> <td>- Minimum 12 years of experience in IT project management or system development.</td> <td>- Proven experience in managing at least three (3) IT projects of similar complexity, including web-based systems.</td> </tr> <tr> <td>- Master’s degree in Information Systems, IT Management, or equivalent. (Must provide certificates).</td> <td>- Must hold a valid certification in project management (e.g., PMP, PRINCE2).</td> <td>- Demonstrated leadership in managing multidisciplinary teams for system customization and deployment.</td> </tr> <tr> <td>2. System Architect</td> <td>- Bachelor’s degree in Computer Science, Software Engineering, or</td> <td>- Minimum 10 years of experience in system design and architecture.</td> <td>- Proven experience in designing scalable, cloud-based architectures for at least two (2) large IT systems.</td> </tr> </tbody> </table>		Key Personnel	Academic Requirements	Professional Requirements	Specific Experience	1. Lead IT Consultant	- Bachelor’s degree in Computer Science, Software Engineering, or IT-related field.	- Minimum 12 years of experience in IT project management or system development.	- Proven experience in managing at least three (3) IT projects of similar complexity, including web-based systems.	- Master’s degree in Information Systems, IT Management, or equivalent. (Must provide certificates).	- Must hold a valid certification in project management (e.g., PMP, PRINCE2).	- Demonstrated leadership in managing multidisciplinary teams for system customization and deployment.	2. System Architect	- Bachelor’s degree in Computer Science, Software Engineering, or	- Minimum 10 years of experience in system design and architecture.	- Proven experience in designing scalable, cloud-based architectures for at least two (2) large IT systems.
Key Personnel	Academic Requirements	Professional Requirements	Specific Experience															
1. Lead IT Consultant	- Bachelor’s degree in Computer Science, Software Engineering, or IT-related field.	- Minimum 12 years of experience in IT project management or system development.	- Proven experience in managing at least three (3) IT projects of similar complexity, including web-based systems.															
	- Master’s degree in Information Systems, IT Management, or equivalent. (Must provide certificates).	- Must hold a valid certification in project management (e.g., PMP, PRINCE2).	- Demonstrated leadership in managing multidisciplinary teams for system customization and deployment.															
2. System Architect	- Bachelor’s degree in Computer Science, Software Engineering, or	- Minimum 10 years of experience in system design and architecture.	- Proven experience in designing scalable, cloud-based architectures for at least two (2) large IT systems.															

			equivalent. (Must provide certificates).	- Certification in enterprise architecture (e.g., TOGAF, Zachman).	- Experience in integrating modular applications using APIs and microservices.	
		3. Database Administrator	- Bachelor's degree in IT, Computer Science, or related field.	- At least 10 years of experience in database management systems.	- Hands-on experience with managing large-scale databases in at least two (2) IT projects.	
				- Certification in database technologies (e.g., MySQL, Oracle, Microsoft SQL Server).	- Expertise in database optimization, data migration, and backup systems.	
		4. Software Developer	- Bachelor's degree in Computer Science, Software Engineering, or related field.	- Minimum 8 years of experience in software development using Java and web technologies.	- Experience in developing web-based platforms with at least two (2) projects involving modular customization.	
				- Certification in programming frameworks (e.g., Java SE/EE, Spring Boot).	- Hands-on experience with secure coding practices and compliance with data protection regulations.	
		5. GIS Specialist	- Bachelor's degree in Geospatial Information Systems (GIS), Computer Science, or related field.	- At least 8 years of experience in GIS implementation and database creation.	- Proven experience in GIS-based mapping for at least two (2) IT systems, including spatial data integration.	
				- Certification in GIS tools (e.g., ArcGIS, QGIS).	- Expertise in developing interactive maps for real-time monitoring.	

		6. IT Security Specialist	- Bachelor's degree in IT, Cybersecurity, or related field.	- Minimum 8 years of experience in IT security implementation.	- Proven experience in implementing security protocols for at least two (2) large IT systems.	
				- Certification in IT security (e.g., CISSP, CEH, ISO 27001 Lead Implementer).	- Expertise in encryption, penetration testing, and secure access control management.	
		7. QA and Testing Specialist	- Bachelor's degree in Computer Science, IT, or related field.	- Minimum 7 years of experience in quality assurance and testing.	- Proven experience in leading QA testing for at least two large-scale IT systems.	
				- Certification in testing tools or frameworks (e.g., ISTQB, Selenium).	- Familiarity with automated testing tools and frameworks to validate system performance and security compliance.	
		8. Training and Support Lead	- Bachelor's degree in IT, Education, or related field.	- Minimum 8 years of experience in training delivery and user support for IT systems.	- Proven experience in conducting training for at least two (2) IT systems involving diverse user groups.	
					- Expertise in developing training manuals and delivering capacity-building sessions for system administrators and end users.	
<p>Notes</p> <p>Participation Restrictions: Key experts who are actively engaged in ongoing IT projects with less than 70% completion of deliverables will not be permitted.</p> <p>Evidence Required: All qualifications, certifications, and experience must be supported by documentation (e.g., degrees, licenses, and project references).</p> <p>Role-Specific Relevance: Experts must demonstrate direct relevance of their skills and experience to the tasks and modules outlined in the project scope.</p>						

This Section contains all the criteria that the Purchaser shall use to evaluate Bids and qualify Bidders. No other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

In addition to the criteria listed in ITB 35.3 (a) to (e), the following factors shall apply:

Scope of Work and Expertise

The IT consultancy assignment involves the development, deployment, and maintenance of a **Fisheries Information Management System (FIMS)**. This system will enable the management of fisheries data, including vessel monitoring, data collection, and reporting. The scope includes:

1. System Design and Development:

- Customization of the Calipseo platform to meet Kenya-specific fisheries management needs.
- Integration of modules such as user management, vessel monitoring, GIS-based mapping, and advanced reporting tools.

2. Implementation and Testing:

- Full-cycle system implementation from requirements gathering, design, development, and deployment.
- Rigorous testing to ensure compliance with technical specifications and regulatory requirements.

3. Training and Knowledge Transfer:

- Capacity-building programs for local teams, including apprenticeships and on-the-job training.
- Development of user manuals and training materials for system operators.

4. Post-Implementation Support:

- Provision of a warranty period and ongoing maintenance to address system bugs and performance optimization.
- Support for system scalability to accommodate future enhancements and integrations.

5. Expertise Requirements:

- Proven experience in fisheries management systems or similar platforms.
- Expertise in Java-based platforms, GIS tools, API integration, and database management.

- Familiarity with Kenyan fisheries management practices, regulations, and stakeholder coordination.

Evaluation Criteria and Ranking Table

Criteria	Sub-Criteria	Pass/ Fail	Evaluation Guidelines
1. Financial Capacity	The minimum required annual volume of Services for the successful Bidder in the last five years shall be KES 10Million:		Audited financial statements They shall demonstrate the current soundness of the Bidder's financial position. For a joint venture, this requirement shall be met by each member.
2. Liquid Assets	Minimum available liquid assets or credit facilities of KES 5 million.		Submit proof of access to liquid assets, such as lines of credit, unencumbered financial resources, or other verifiable financial means
3. Experience	Successful completion of at least two projects of similar scale and complexity		Evidence of prior experience in developing, deploying, and maintaining information systems, particularly those with modular design and real-time data integration. Include operational acceptance certificates for each project or equivalent evidence of completion.
4. Technical Compliance and Capabilities	Compliance with system architecture, modules, and security standards		Evaluated based on adherence to technical requirements and innovative approaches in the bid

		5. Team Qualifications	Expertise and certification of key personnel (e.g., developers, GIS specialists, data scientists)		Points based on technical qualifications, relevant experience, and certifications
			Local presence and understanding of Kenyan fisheries management		Knowledge of regulations, local culture, and operational needs
		6. Implementation and Risk Management	Realistic timelines and detailed milestones		Points based on a clear, achievable implementation plan with timelines
			Risk mitigation strategies and contingency plans		Evaluated based on proposed measures to handle technical and operational risks
		7. Financial Stability	Financial capacity and audited financial statements		Points based on demonstrated ability to fund the project and sustain operations
		8. Proposed Methodology and Approach	A detailed implementation plan for FIMS.		Include a project schedule, risk management plan, quality assurance measures, and an iterative development strategy aligned with agile methodologies. Focus on scalability and adaptability for future enhancements.
		9. Training and Knowledge Transfer	Plans for capacity building, including training programs and materials		Quality of knowledge transfer initiatives, including apprenticeships for local staff
		10. Post-Implementation Support	Warranty, maintenance, and		Comprehensive support services, including debugging and regular updates

			feature enhancement plans		
		11. Compliance with Environmental and Social	Sustainability measures in system design and operation		Points awarded for compliance with environmental and social safeguards, such as user privacy
		12. Maintenance and Post-Implementation Support	Commitment to provide one year of free technical support post-implementation.		The firm must demonstrate readiness to address system bugs, performance optimizations, and enhancements during this period. Provide an outline of the proposed support framework.

The submission/closing date of the tenders has been extended from Thursday 27th February, 2025 to Thursday 6th March, 2025. All the other conditions remain the same.

Dated: 23rd January, 2025