REPUBLIC OF KENYA
MINISTRY OF MINING BLUE ECONOMY AND MARITIME AFFAIRS
State Department of Blue Economy and Fisheries

Kenya Marine Fisheries Socioeconomic Development Project (KEMFSED)
P.O. Box 58187-00200 NAIROBI

Republic of Kenya

Request for Expression of Interest
(Consulting Services – Individual Consultant Selection)

Country: Kenya
Name of project: Kenya Marine Fisheries and Socio-Economic Development Project (KEMFSED)

Project No.: P163980

Credit No: 65400-KE

Assignment Title: Individual Consulting Services for Development and Upgrading the Fisheries Information Management System (FIMS) at National and County Headquarters

Contract No.: KE-MOMBEMA-C1-2023-018-INDV/MMBE&MA/SDBE&F/03/2023-2024

1. This Request for Expression of Interest follows the **General Procurement Notice** for this project that appeared in Development Business; of 10th August 2020.

2. The Government of Kenya has received a Credit from International Development Agency (IDA) towards the cost of the **Kenya Marine Fisheries and Socio-Economic Development Project (KEMFSED)** and intends to apply part of the proceeds of this Credit to payments under this contract: Individual Consulting Services for Development and Upgrading the Fisheries Information Management System (FIMS) at National and County Headquarters Contract No. **KE-MOMBEMA-C1-2023-018-INDV/MMBE&MA/SDBE&F/03/2023-2024.**

3. **The overall objective** of this assignment is to establish a fully functional Fisheries Information management system (FIMS) that integrates all data including catch/effort, prices, licensing, market and value and permitting, research data, fisheries compliance, as well as mobile data application integration, statistical applications and reporting.

4. **The tasks to be carried out under the assignment includes but not limited to:**
   (i) Provide technical advice on the design of a fully integrated Fisheries Information Management System (FIMS), with all the modules (co-management, licensing, inspections, aquaculture-mariculture etc.) including the dashboards for each module for key information such as fishing effort (boat-gears), main species, total production and value etc. at both county and National levels
   (ii) Provide technical support to link the fisheries database to a fully integrated Fisheries Information System, with output routines for different users and a dashboard for the priority fisheries at county and HQs in Nairobi;
   (iii) Provide clear and concise instruction to the database developer on the changes in CAS module of the FIMS database or Calipseo to ensure that the estimation process is coherent with FAO

recommendation for sample-based fisheries data collection; The designed statistical methodology including indicators should show data variability and reliability relating to sampling frequency and sample size. This is the implementation of computation of raised statistics for small scale fisheries (SSF) which requires integration of Calipseo R shiny App. This will include;

a) Assessment of the raising procedures and statistical methodology for the estimation of total catch by species for consistency with the suggested FAO sample-based data collection;

b) Technical advice to the integration with the Frame Surveys and or data collection design;

c) Clear and concise instructions to the database developer to generate the required data to support the stock assessments including the use of indicators in standard fisheries models e.g. surplus production models (total annual fishing days and daily CPUE by fishing unit and fish species);

d) Clear and concise instruction to the data base developer how to calculate the relative error at 90% probability level and to consider the accuracy of the estimated monthly average CPUE and the estimated monthly total catch at landing site, ward, sub-county and county levels;

(iv) In full collaboration with the officer in charge of statistics and the KEMFSED database team, list the reporting requirements on marine fisheries statistics and provide guidance to the database developer to develop a user's friendly front end module for data analyses and reporting with clear format and content of the required reports and output formats

(v) Provide a list of the 3 Alpha codes for the species covered in the database and provide clear and advice on the changes to be made by the database developer and on how to include them in the species reference table of the database and the different outputs of the database;

(vi) Provide technical instructions to Database developer to import the mobile collected data from the clouds to CAS Database;

(vii) Provide technical guidance on statistical reports for marine catch and effort, aquaculture, compliance, co-management and all other modules;

(viii) Oversee the FIMS progressive expansion, improvement and pilot survey implementation;

(ix) In collaboration with the database developer set-up of linkages and interfaces related to the FIMS across applications to operationalise and optimise the fisheries data collection process, including catch/effort, Geo-spatial elements (GIS), NAMIS, KAMIS, Vessel Monitoring Systems, Monitoring, Control and Surveillance elements and others that may be identified to optimise the FIMS;

(x) Provide technical support to the database developer to develop an interface that allows remittance of the fish catch data to Food and Agriculture Organization (FAO) and Indian Ocean Tuna Commission (IOTC) in collaboration with the FAO and IOTC;

(xi) Provide clear instructions to the database developer to link with the anticipated "Vessel Monitoring System" database to monitor industrial fishing vessels in the Kenyan fishing zone (EEZ);

(xii) Prepare training material and field guides and sampling simulators and setting up sampling protocols linked to CAS during the operationalization of FIMS, Geographical information system (GIS) analysis, Social economic surveys and train staff involved in data and statistics and KMFRI scientists, on the implementation FIMS functions, processes and any other associated services; The training manual to include the operation and maintenance of the FIMs database;

(xiii) Document all the above in a final technical report and manuals in English.

5. The consultant shall possess the following qualifications:

The Consultant should have the following minimum qualifications and experience,

a) A Master's Degree or equivalent in a discipline related to fisheries management or fisheries statistics, Computer Science, or a related discipline.

b) At least 10 years of professional experience in fisheries information management, database development, and related fields

c) Demonstrated experience working on international projects, preferably with organizations such as FAO or similar international development agencies in fisheries information management

d) Proven expertise in fisheries data management, statistical analysis, and information system development within the context of fisheries management and small-scale fisheries and in designing, developing, and implementing fisheries management information systems and databases.

e) Strong project management skills, with a track record of successfully managing complex projects from inception to completion.
f) Demonstrated ability to provide training and capacity-building support to stakeholders in fisheries data management and statistics.
g) Excellent communication skills, including the ability to effectively present technical information to non-technical stakeholders.
h) Proficiency in English, both written and spoken. Additional languages, especially relevant to the project's context, would be a plus.

6. The Consulting Services Contract is expected to be for a period of **15 Calendar Months** from the date of commencement.

7. The State Department of Blue Economy and Fisheries through the **Kenya Marine Fisheries and Socio-Economic Development (KEMFSED) Project** now invites individuals to express their interest in providing the services. Interested individuals must provide information indicating that they are qualified to perform the services **(attach curriculum vitae (CV), copies of documentary evidence of Academic qualifications, Professional Qualifications and registration/licensing of professional body)**.

8. An Individual Consultant will be selected in accordance with the Selection of Individual Consultants method set out in the World Bank's *Procurement Regulations for IPF Borrowers dated November 2020 fourth Edition (Regulations).*

9. Interested individuals may obtain further information at the address below from 0900 to 1700 hours East African Time (EAT) from Monday to Friday excluding lunch hour (1300 to 1400hours EAT) and public holidays or download full TORs on Website: www.kemfsed.org; www.tenders.go.ke; www.mibema.go.ke

Expression of interest shall be delivered by **3rd October 2023** at **1100hours EAT.** - using one of the following modalities: **(i)** deposit in the tender box located on Mezzanine Floor, Maktaba Kuu Building Opposite NHIF Ngong Road Nairobi, Kenya or **(ii)** send by email to: info@kemfsed.org and quote the Assignment title and Contract No. in the subject row. For expressions of interest that will be deposited at the tender box, the packages should be clearly marked; **Individual Consulting Services for Development and Upgrading the Fisheries Information Management System (FIMS) at National and County Headquarters Activity No. KE-MOMBEMA-C1-2023-018-INDV/MMBE&MA/SDBE&F/03/2023-2024.**

Physical Address	Other addresses
The Principal Secretary	The National Project Coordinator
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