



MINISTRY OF AGRICULTURE, LIVESTOCK, FISHERIES AND COOPERATIVES (MOALFC)

STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND BLUE ECONOMY (SDFA&BE)



KENYA MARINE FISHERIES SOCIOECONOMIC DEVELOPMENT (KEMFSED) PROJECT P.O. BOX 58187-00200

Credit No: 6540-KE

Project ID. No.

163980

REQUEST FOR EXPRESSION OF INTEREST

FISHERIES INFORMATION MANAGEMENT SYSTEM (FIMS) TECHNICAL EXPERT FOR CONSULTANCY SERVICES TO PROVIDE TECHNICAL BACK-STOPPING FOR DEVELOPMENT AND UPGRADING THE FISHERIES INFORMATION MANAGEMENT SYSTEM AT NATIONAL AND COUNTY HEADQUARTERS

CONSULTANCY SERVICES – INDIVIDUAL

Contract No. KE-MOALF-C1-2021-013-ICS

The Government of Kenya, through the State Department for Fisheries, Aquaculture, and Blue Economy (SDFA&BE) and with support from the World Bank, is implementing the Kenya Marine Fisheries and Socio-Economic Development (KEMFSED) project, and intends to apply part of the proceeds for consulting service.

The consulting services ("**the Services**") include:

Provision of technical expertise with fisheries experience to work closely with the IT experts to operationalize the Fisheries Information and Management System (FIMS). The technical expert will establish the database at National Level and expand to the Coastal Counties to ensure harmonized data capture, procedures needed and training of national and county staff responsible for fisheries data collection and management of the FIMS in their respective jurisdictions. The technical expert will be expected to provide technical /expert advice to the database developers to improve design of the FIMS Database and integrate CAS with the frame by incorporating a fisheries statistical verification process to assess data quality.

The FIMS developed should be compatible, in particular sampling procedures should be consistent and facilitate ease of interpretation, particularly related to indices, species and priority fisheries. The technical expert will:-

- 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;
- 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;
- Assess the raising procedures and statistical methodology for the estimation of total catch by species for consistency with the suggested FAO sample-based data collection;
- Provide clear and concise instruction to the database developer on the changes in CAS module of the FIMS database 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;
- Provide technical advice to the integration with the Frame Surveys and or data collection design;
- Provide 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);
- In full collaboration with the officer in charge of statistics, 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;
- 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;
- Provide technical instructions to Database developer to import the mobile collected data from the clouds to CAS Database;
- Personalization of statistical reports for marine catch/effort, aquaculture, compliance and other relevant modules;
- Overseeing the FIMS progressive expansion, improvement and pilot survey implementation;
- Provide 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;
- 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;
- Provide technical support to the database developer to develop an interface that allows automatic remittance of the fish catch data to FAO and IOTC in collaboration with the FAO and IOTC;
- 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);
- Prepare training material and field guides and sampling simulators and setting up sampling protocols linked to CAS during the operationalization of FIMS;
- Training of staff involved in data and statistics and KMFRIL scientists, on the implementation FIMS functions, processes and any other associated services;
- Provide a training manual of the operation and maintenance of the CAS database;
- Provide technical advice on the design and implementation on economic and socio-economic surveys;

- Conduct training on the use of GIS analysis and the appropriate presentation of fisheries data;
- Document all the above in a final technical report and manuals in English.

The support for this position will be from the KEMFSED Project. The selected candidate will be offered 1-year contract, based on performance the contract can be renewed. The project will provide to the consultant office support services during the time of the FIMS development.

The detailed Terms of Reference for the assignment can be found on the following website: www.kemfsed.org or www.kilimo.go.ke tenders or www.worldbank.org or www.tenders.go.ke or obtained at the address given below.

The Ministry through the SDFA&BE now invites eligible individual consultants to express their interest in providing the service. Interested consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the services. The shortlisting criteria are:

Consultant Qualifications

The consultant to support the development and operationalization of FIMS should have the following qualifications;

- A Master's Degree or equivalent in a discipline related to fisheries management or fisheries statistics;
- A Degree or equivalent in a discipline related to fisheries management or fisheries statistics;
- Biostatistician with at least 10-year experience in sample-based data collection for small scale fisheries;
- Working experience in the MS Access database development including use of reputable software products such as PHP-MySQL, Java, etc. in mobile phone and GIS applications.
- Profound knowledge of FAO recommendation for small scale fisheries statistics and data collection;
- At least 10 years of demonstrable experience working in a fisheries and/or natural resources, small scale sample-based fisheries data collection. Experience specifically in the development of Fisheries Information Systems will be an added advantage;
- Wide experience and interaction with regional and international projects as well as good networks in fisheries data collection;
- Ability to communicate effectively in English both orally and in writing;
- Strong report writing and analytical skills are required.

The attention of interested consultants is drawn to Section III paragraph 3.14, 3.16 and 3.17 of the World Bank's Procurement Regulations for IPF Borrowers July 2016 and revised in November 2017, August 2018 and November 2020 (Procurement Regulations) setting forth the World Bank's policy on conflict of interest. The consultant will be selected in accordance with the Individual Consultant Selection – ICS method set out in the World Bank's Procurement Regulations.

Further information can be obtained at the address below Monday to Friday during office hours 0800 to 1700 hours.

Expressions of Interest clearly marked on top (**REOI Fisheries Information Management System (FIMS) Technical Expert for Consultancy Services to provide Technical Back-Stopping for Development and Upgrading the Fisheries Information Management System at National and County Headquarters (Contract No. KE-MOALF-C1-2021-013-ICS)** must be delivered in written form to the address below (in person, or by mail, or by e-mail or placed in the tender box located at **Maktaba Kuu Building Mezzanine Floor**, on or before **21st June, 2022 by 11.00AM (EAT)**).

Physical address	Other Address
<p>The Principal Secretary, State Department for Fisheries Aquaculture and the Blue Economy Ministry of Agriculture Livestock Fisheries and Co-operatives</p>	<p>Attn.: The Project Coordinator Kenya Marine Fisheries and Socio-Economic Development (KEMFSED) Project State Department for Fisheries Aquaculture and the Blue Economy Ministry of Agriculture Livestock Fisheries and Co-operatives Maktaba Kuu Building Mezzanine Floor, Ngong Road, P.O Box 58187-00200</p>
	<p>Website: https://www.kilimo.go.ke www.kemfsed.org Email: info@kemfsed.org Telephone : +254-20-2718870</p>