

TERMS OF REFERENCE

Rural Infrastructure Engineer

- I. PROJECT TITLE : PHILIPPINE FISHERIES AND COASTAL RESILIENCY (FISHCORE) PROJECT**
- II. TITLE OF CONSULTANT : RURAL INFRASTRUCTURE ENGINEER**
- III. PROPONENT : BFAR-NATIONAL PROJECT MANAGEMENT OFFICE**
- IV. IMPLEMENTATION DATE : SEPTEMBER 2023 – NOVEMBER 2023**
- V. INTRODUCTION:**

The FishCoRe Project will be the Philippine government's platform for implementing the new governance scheme, which divides the entire country's territorial waters, inclusive of inland waters and exclusive economic zone (EEZ), into 12 fisheries management areas (FMAs) based on stock distribution and the structure of fisheries and administrative divisions.

The overall goal of the FishCoRe Project is to enhance ecosystem and community resilience in selected FMAs. The PDO of the project is to improve the management of fisheries resources and enhance the value of fisheries production to coastal communities in selected FMAs. In particular, the project intends to contribute to the following goals: (i) increased food security; (ii) enhanced level of satisfaction among beneficiaries; (iii) reduced incidence of illegal, unreported, and unregulated (IUU) fishing activities; and (iv) improved sustainable employment from diversified sources including fisheries and aquaculture.

The FishCoRe Project will consist of three components, namely: (i) Component 1: Fisheries and Coastal-Resilient Resource Planning and Management Component (FishCRRM); (ii) Component 2: Modern and Resilient Livelihood Investments (MARLIN); and (iii) Component 3: Support to Project Implementation and Management (SuPrIM). Components 1 and 2 aim to achieve improved management of fisheries and coastal resources and development of supportive infrastructure and fisheries enterprises, respectively.

By the end of the seven-year project implementation period (2021-2028), the achievement of the PDO will be measured by the following indicators:

- Two ecosystem-based fisheries management plans (FMPs) formulated (one each for FMAs 6 and 9) by 2022, implemented starting 2023, and evaluated by 2025;
- Increase in household income by 3% annually in real terms starting in 2025;
- Reduction in postharvest losses by 5% by 2028;

- 50% of major fish stocks covered by FMPs moving towards target reference points by 2028; and
- Increase in the value added to fishery commodities in targeted areas by 3% annually in real terms.

FishCoRe will adopt existing DA mechanisms (such as the One DA approach and clustering of enterprises) and build upon the gains and lessons learned from DA and BFAR projects. These include the aquabusiness schools introduced by the IFAD-supported Fisheries, Coastal Resources, and Livelihood (FishCORAL) Project, the enhanced role of DA RFOs and LGUs in the WB-funded Philippine Rural Development Project's (PRDP), the network of marine protected areas (MPAs) and fish sanctuaries established under the ADB/JBIC-funded Fisheries Resource Management Project (FRMP), the EAFM initiatives of the USAID-supported Ecosystems Improved for Sustainable Fisheries (EcoFish), as well as the partnerships established by BFAR with NGOs and civil society organizations (CSO) for the social mobilization and participation of fishers and fisher groups.

VI. RATIONALE:

The *Comprehensive National Fisheries Industry Development Plan (CNFIDP), 2016-2020* reports that the Philippine fisheries sector is confronted with nine key and interlinked problems/issues, namely:

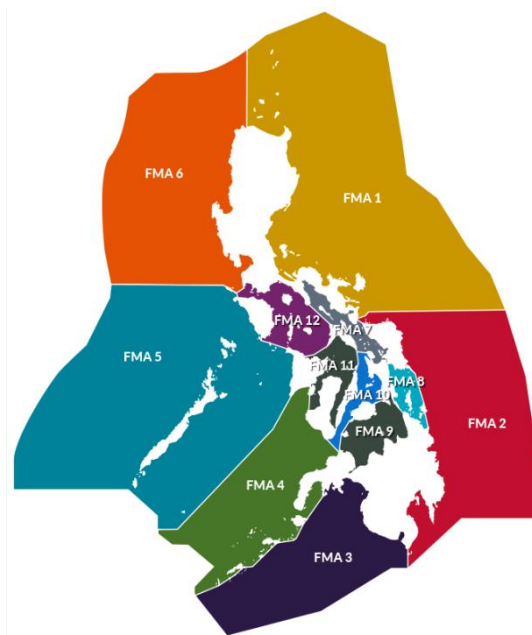
1. depleted fishery resources largely brought about by excessive fishing effort and the open access regime in Philippine fisheries;
2. degraded fishery habitats due to destructive fishing methods, conversion of fishery habitats into economic uses, and negative impacts from land-based activities;
3. intensified resource use competition and conflicts among fisher groups and other economic sectors;
4. unrealized full potential of aquaculture and commercial fisheries in view of the still underutilized areas for industry development;
5. uncompetitive products due to inferior quality and safety standards;
6. postharvest losses in terms of physical, nutritional and value losses;
7. limited institutional capabilities, from the local up to the national level of governance;
8. inadequate/inconsistent fisheries policies for promoting a conducive environment for sustainable development;
9. weak institutional partnerships among government agencies both at the national and local levels, civil society organizations (CSOs), and the private sector.

Other challenges include typhoons and extreme weather events, the implementation of closed seasons in several areas, vulnerability of natural resources and communities to climate change and disaster risks, foreign and domestic pressures on fishing grounds, marine pollution, red tides and algal blooms, biodiversity decline, and large postharvest losses and food quality degradation, ranging from 20-40% of the total output (PDP, 2017). More recently, the coronavirus disease-2019 (COVID-19) has greatly affected the national economy, including the livelihood of coastal fishing communities. The enhanced community quarantine, imposed to prevent or minimize the spread of the virus, has hampered the movement of agricultural inputs and marketable produce from production areas to

consumers, resulting in the loss of market and income opportunities, particularly for the highly vulnerable small-scale fishers and fish farmers. To avert the further decline of sector performance as a result of reduced fishing activities due to typhoons, extreme weather conditions, and associated disasters experienced annually by the country, fisheries management has shifted to protection and conservation through the adoption of the ecosystem approach to fisheries management.

Department of Agriculture – Bureau of Fishery and Aquatic Resources (DA-BFAR) has initiated plans to modernize post-harvest infrastructure under the Fisheries and Coastal Resiliency (FishCoRe) Project. FishCoRe will be implemented in FMA 6 and FMA 9 covering 11 regions and a total of 24 provinces with a total coastal and marine area of about 32 million hectares (ha).

FMA 6 includes the coastal waters off the West Philippine Sea including Pagudpud Bay, Lingayen Gulf, Subic Bay, and Manila Bay up to Lubang Island in Regions 1, 3, 4A, 4B, National Capital Region (NCR), and Cordillera Administrative Region (CAR).



FMA 9 straddles Regions 7, 8, 9, 10, and 13, covering Bohol Sea, Panguil Bay, Iligan Bay, Gingoog Bay, Butuan Bay, and Sogod Bay.

VII. OBJECTIVES

To ensure that there shall be an effective and efficient implementation of all civil works of the FishCoRe project as well as the administrative and technical support to the SuPrIm component and NPMOs concerns in terms of meeting the overall targets vis a vis the project objectives.

Further, BFAR has listed a total of 90 fish landing sites in the coastal and municipal waters of FMA 6 and FMA 9 for potential modernisation investment subprojects under FishCoRe. A World Bank team has already visited nine (9) locations to gather information on the existing size and state of the infrastructure and assess potential needs to make the post-harvest infrastructure more efficient and compliant with international food safety and hygiene regulations. Hence, the Rural Infrastructure Engineer shall complete the engineering data gathering exercise for the remaining 81 locations within FMA 6 and 9.

VIII. SCOPE OF RESPONSIBILITIES

The Rural Infrastructure Engineer is expected to carry out the following tasks:

1. Provide highly technical assistance in the procurement of FishCoRe civil works (preparation of appropriate procurement packages, preparation of procurement plans, and conduct of procurement activities);

2. Render highly technical expertise in checking and reviewing the completeness and consistency of documents on the submitted technical proposals, bid evaluation reports, and variation orders needing NPMO and WB OL or NOL relative to civil works. The documents shall be based on a checklist of requirements per sub-project type;
3. Conduct validation and field appraisal of critical FishCoRe sub-projects;
4. Attend the conduct of the pre-construction meeting, as-staked survey, and pre-final and final inspection as a resource person and witness;
5. Conduct site visit to the 81 locations indicated by BFAR to gather and record specific templates provided by the World Bank:
 - a. The GPS coordinates of the site and relevant names of province, municipality and site;
 - b. The *lack of or condition/serviceability of* a landing jetty or quay;
 - c. The *lack of or condition/serviceability of* any post-harvest landing platform or fish sorting hall;
 - d. The *lack of or condition/serviceability of* hygiene facilities;
 - e. The availability of utilities (potable water, electricity, drainage structures and waste treatment facilities and ice);
 - f. All-weather accessibility to the site for refrigerated trucks;
 - g. Availability of other port structures and equipment such as administration blocks, refueling tanks, shaded areas, net repair areas, water tanks, stainless steel tables, etc.;
 - h. Any infrastructure needs highlighted by the local Officer-In-Charge (OIC).
6. Act as point person for the institutionalization of the operation and maintenance scheme of the Project for FishCoRe civil works; and
7. Perform other tasks as maybe assigned by the Project Manager/Component Lead.

IX. TIMETABLE OF ACTIVITIES

Within the 3-month period, from September 2023 to November 2023, the Rural Infrastructure Engineer is expected to implement and accomplish the following:

1. Assess the number and type of studies or paperwork that would be required to develop the proposals further, such as cadastral maps of Government-owned land, topographic or bathymetric surveys, geotechnical studies if piling is required, etc. based on the template provided by the World Bank. An idea of the complexity of the environmental impact studies should also be noted, especially if a proposal needs to relocate dwellings or commercial/livelihood entities;
2. Compile a Google Earth *myplaces.kml* file containing the GPS coordinates with relevant names of all the sites visited;
3. Develop a database on the data pertaining to the 81 sites indicated by BFAR to gather and record on specific templates provided by the World Bank;
4. Participate in NPMO coordination meetings, regional cluster meetings, and planning workshops to provide feedback and conduct timely reporting; and
5. Record the relevant fisheries data from the Local Government Unit (LGU) and photos of relevant structures which includes:
 - a. The number of licensed fishermen; and
 - b. The daily/monthly/yearly production figures in tons per species; and

7. Perform other tasks as may be assigned by the Project Manager/Component Lead.

X. QUALIFICATIONS

a. Education and Relevant Experiences

1. A licensed civil engineer or agricultural engineer.
2. Must be a holder of Bachelor's Degree in Civil Engineering or Agricultural Engineering.
3. A postgraduate degree in environmental engineering or food safety engineering (HACCP requirements) would be an advantage.
4. Minimum of five (5) years of working experience in performing similar and related works.
5. At least five (5) years experience in foreign-assisted projects.
6. Must have a minimum post-qualification experience of at least ten (10) years and demonstrable experience in the design of small-scale ports or other fisheries infrastructure
7. Has knowledge on World Bank Policies particularly on civil works.
8. Attended at least 48 hours relevant trainings.
9. Had been involved in the preparation of engineering technical documents (*Program of Work, Detailed Engineering Design and Estimates, Engineering Plans, etc.*).

B. Competencies

1. Proficient in written and oral communications.
2. Computer literate with high proficiency in MS Word, excel, and PowerPoint.
3. Ability to work with stakeholders on multiple levels including non-government organizations, people's organizations, donors, media groups, religious groups, and local government units.
4. Proven organizational skills and ability to manage multiple tasks simultaneously.
5. Can work independently and result oriented.

XI. DELIVERABLES AND PAYMENTS

The Consultant shall prepare and submit periodic reports to the Project Director through the Project Manager and the Project Component Lead and be paid as reflected in the following matrix:

	Type of Report	Schedule	Payment
1	Inception Report	Within fifteen (15) days after the commencement of services	20%
2	Monthly Progress Reports	Forty-five (45) days after inception	30%
3	Final Project Output	Within the last month of the Contract Period	30%
4	Completion Report	At the end of the Contract Period	20%

XII. SUMMARY OF COST

Item	Total Cost (Php)
Consultancy Services Fee for three (3) months	Php 200,880.00

Interested applicants may send their application to bfarbacinquiry@gmail.com. Deadline of submission is on September 4, 2023. Please note that only shortlisted applicants shall be contacted.

7. Has knowledge on World Bank Policies particularly on civil works.						
8. Attended at least 48 hours relevant trainings.						
9. Had been involved in the preparation of engineering technical documents (Program of Work, Detailed Engineering Design and Estimates, Engineering Plans, etc.).						
B. Competencies						
1. Proficient in written and oral communications. 2. Computer literate with high proficiency in MS Word, excel, and PowerPoint. 3. Ability to work with stakeholders on multiple levels including non-government organizations, people's organizations, donors, media groups, religious groups, and local government units. 4. Proven organizational skills and ability to manage multiple tasks simultaneously. 5. Can work independently and result oriented.						
Deliverables						
1. Inception report 2. Progress Report 3. Final Output 4. Completion Report						
Terms of Payment: Progress Billing						
Terms of Reference:						
1. Provide highly technical assistance in the procurement of FishCoRe civil works (preparation of appropriate procurement packages, preparation of procurement plans, and conduct of procurement activities);						
2. Render highly technical expertise in checking and reviewing the completeness and consistency of documents on the submitted technical proposals, bid evaluation reports, and variation orders needing NPMO and WB OL or NOL relative to civil works. The documents shall be based on a checklist of requirements per sub-project type;						
3. Conduct validation and field appraisal of critical FishCoRe sub-projects;						
4. Attend the conduct of the pre-construction meeting, as-stake survey, and pre-final and final inspection as a resource person and witness;						

5. Conduct site visit to the 81 locations indicated by BFAR to gather and record on specific templates provided by the World Bank:						
a. The GPS coordinates of the site and relevant names of province, municipality and site; b. The lack of or condition/serviceability of a landing jetty or quay; c. The lack of or condition/serviceability of any post-harvest landing platform or fish sorting hall; d. The lack of or condition/serviceability of hygiene facilities; e. The availability of utilities (potable water, electricity, drainage structures and waste treatment facilities and ice); f. All-weather accessibility to the site for refrigerated trucks; g. Availability of other port structures and equipment such as administration blocks, refueling tanks, shaded areas, net repair areas, water tanks, stainless steel tables, etc.; h. Any infrastructure needs highlighted by the local Officer-In-Charge (OIC).						
6. Act as point person for the institutionalization of the operation and maintenance scheme of the Project for FishCoRe civil works; and						
7. Perform other tasks as maybe assigned by the Project Manager/Component Lead.						
Total			200,880.00			

GENERAL CONDITIONS:

- ALL ENTRIES MUST BE TYPEWRITTEN, LEGIBLE AND COMPLETED, INCOMPLETE OR BLANK ENTRIES SHALL MEAN DISQUALIFICATION OF YOUR BID PROPOSAL
- Bidders must submit/attach the ff;
 * Mayor's/Business Permit/BIR Certificate of Registration
 * Professional License/Curriculum Vitae (For Consulting Services)
 * PhilGEPS Reg. Number
- Place this RFQ in a sealed envelope and type the following details on the face of the envelope:
 * Your Company Name * RFQ No. * PHILGEPS Reference No.
 * Address & Telefax No. * PR No. * Date & Time of Deadline
- Delivery period must be on the date required by the End-user indicated above; (State Comply or Not Comply in the Bidder's Certification Box):
- Item/s delivered must have warranties for unit replacements, parts, labor or other services;
- Price validity shall be for a period of three (3) months;
- Quoted prices must be inclusive of taxes, and other charges or fees and shall not exceed the Approved Budget for the Contract (ABC);
- Transactions with BFAR shall mean compliance by the winning bidder with the bid and delivery requirements before the issuance of check payment;
- FAILURE TO COMPLY WITH THESE CONDITIONS SHALL MEAN DISQUALIFICATION OF YOUR BID PROPOSAL**
- Terms of Payment: At least Thirty (30) days upon effectivity of Purchase Order.
- Payment will be made through direct credits to the bank accounts of the payee.

END-USER: Mildred M. Buazon
 PLACE OF DELIVERY: BFAR Central Office, Quezon City
 PROCURING UNIT: BFAR-NPMO

SUPPLIER/ CONTRACTOR/ CONSULTANT'S CERTIFICATION

Date: _____

After having carefully read and accepted your General Conditions, I/ we quote you on the item/s at price/s noted above for immediate delivery and shipment which can be made in the NUMBER OF DAYS/ WE INDICATED BELOW, from receipt of the Notice of Award or Purchase Order.

DELIVERY PERIOD: _____ DAYS

Printed Name & Signature of Authorized Representative _____

Company Tel./ Fax/ Mobile No. _____

Company Tax Identification No. (TIN) _____

PHILGEPS REGISTRATION CERTIFICATE NO. _____

BANK DETAILS-ACCT NUMBER, ACCT. NAME, BRANCH _____