REQUEST FOR EXPRESSIONS OF INTEREST - SELECTION OF CONSULTANTS

Name of country: **Islamic Republic of Pakistan**
Project: **Sindh Flood Emergency Housing Re-construction ProjectAssignment of**
Title: **Selection of Engineering Support Services Consultant**
Activity No: **PK-SPHFC-335580-CS-CQS**

1. The Government of Sindh has received credit through EAD, Govt. of Pakistan from the International Development Association and intends to apply part of the proceeds of this credit to payments under the contract for **Sindh Flood Emergency Housing Re-construction Project** (the Project) to perform the consulting services.

2. The SPHF is now seeking to procure **Engineering Support Services Consultant** (the services) to extend technical services for reconstruction and / or repair of the damaged houses (as the case may be) along with review of design documents for social sector infrastructure and disaster mitigation and preparedness interventions. Engineering support initially required for period of 18 Eighteen months, will cover but not limited to the following scope:

    a. Construction Guidelines, designs and verification Tools
    b. Capacity building and training
    c. Social Sector Infrastructure and preparedness and mitigation measures: Review and where needed design local/settlement/village level social sector infrastructure and preparedness and mitigation measures in the project area.

3. The services are to be started by April 2023 and are expected to complete by September 2024 (18 months). Term of Reference for this consultancy services are available at www.sphf.gos.pk

4. The Sindh Peoples Housing for Flood Affectees (SPHF) – the implantation agency of the project now invites consulting firms to indicate their interest in providing the required services. Interested Consulting firms should provide information demonstrating that they have got the required qualifications and relevant experience to perform the Services.

5. The selection criteria are as under:

Criterion	Score
General Experience Organizational structure, human resource, office network, logistics etc.	20
Relevant Experience	30

Atleast three contracts in Engineering Support/Technical Training/Capacity Building with a contract price of PKR 100 million or more during last 10 years	
Working experience in local community	10
Working experience on the donor funded projects	10
Working experience on low-cost resilience housing	10
Team composition/experience of the experts	20

6. A Consultant will be selected in accordance with the **Consultant's qualifications-based selection (CQS)** method set out in the WB Procurement Regulations for IPF Borrowers (Procurement in Investment Project Financing, Goods, Works, Non-Consulting and Consulting Services - Fourth Edition, November 2020).

7. The attention of the interested firms is drawn to Clause 3.16 and 3.17 Section III of the World Bank's Procurement Regulations for IPF Borrowers setting forth the World Bank's policy on conflict of interest.

8. Consultants may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their qualifications.

9. Further information can be obtained at the address below during office hours.

10. Expression of interest must be delivered in written form to the address below (in person, or by courier) the EoI can also be submitted through e-mail address procurementspecialist@sphf.gos.pk

11. The closing date of submitting the EoI is **03 April 2023**

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Sindh People's Housing for Flood Affectees

Selection of Engineering Support Services Consultant

(Activity Ref. PK-SPHFC-335580-CS-CQS)

Terms of Reference

Background

Pakistan experienced heavy monsoon rains between June and September 2022, which has severely affected millions of households, mainly in Sindh and Balochistan. Around 33 million people have been displaced and more than 13,000 kilometers of roads destroyed. The flooding has damaged 2.2 million houses, flooded around 9.4 million acres of crops, and has killed an estimated 1.2 million livestock. Moreover, limited access to input and output markets and temporary disruptions to supply chains have driven up food prices and added to existing price pressures resulting from reduced agricultural yields and the global rise of food prices. Preliminary estimates suggest that as a direct consequence of the floods, the national poverty rate may increase up to 4 percentage points, potentially pushing around 9 million people into poverty. The recently completed Post-Disaster Needs Assessment (PDNA) estimates total damages to be US$14.9 billion, while total economic losses have reached about US$15.2 billion. Estimated needs for rehabilitation and reconstruction are at US$16.3 billion, not including new investments beyond the affected areas needed to strengthen Pakistan's resilience to future shocks.

Sindh has been disproportionately affected by the 2022 floods. According to the NDMA, 792 of the 1,731 nationwide casualties were in Sindh, including 336 children, with 8,422 people injured. Similarly, reports estimate that more than 4.9 million acres of agricultural land has been affected in the province, which is more than half of the nationwide total.[1] Vast areas in Sindh witnessed prolonged inundation lasting several weeks.[2]

According to the last pre-floods housing census from 2017, there were 2,756,499 katcha (Mud/adobe) and 5,600,885 pakka (bricked/Blocked/RCC) housing units in Sindh, with the former concentrated mainly in rural areas and the latter more prevalent in the urban areas. While house ownership is higher in rural areas, housing with unclear ownership status is proportionately higher due to the relative informality of the housing sector in rural areas. Assuming linear growth between 1998 and 2017, the number of katcha houses in Sindh have grown at a rate of about 1.6 percent annually, while pakka houses have an annual growth rate of about 4 percent per year. However as per the estimates, around ~2 million of these houses have been damaged by the floods in Sindh alone.

Project Description

i. Project Overview

For emergency rehabilitation to facilitate the flood affectees, the Government of Sindh has established a not-for-profit company 'Sindh Peoples Housing for Flood Affectees' (**SPHF**) to implement the Sindh Flood Emergency Housing Reconstruction Project (the **Project**), with technical and financial support of the World Bank. The Project design evolves from comprehensive discussions of the World Bank with the Government

[1] FAO Monsoon Flood Situation Update – Pakistan September 27, 2022.
[2] FAO Rapid Geospatial Flood Impact Assessment Pakistan, September 2022.

of Pakistan and the Provincial Government of Sindh. The reconstruction project aims to support (i) Housing subsidy cash grants for owner-driven reconstruction of multi-hazard resilient core housing units; (ii) Skill development of communities on multi-hazard resilient construction practices; and (iii) Technical assistance to Government of Sindh for design and delivery of the housing reconstruction program. It will involve construction of approximately two (2) million housing units. These houses will be spread over a vast geographical area, locations of which will be dependent upon the Post-Disaster Needs Assessment (PDNA).

ii. Project Development Objective

The project development objective is to support the Government of Sindh in the delivery of beneficiary-driven, multi-hazard resilient reconstruction of core[3] housing units that were damaged by 2022 floods.

iii. Project Beneficiaries

The Project would have specific benefits for people living in the geographical locations who will be served through the housing subsidy grants for reconstruction/restoration of their damaged houses. Through a beneficiary-driven approach, approximately two (2) million multi-hazard resilient core housing units will be supported.. Roughly, half of these beneficiaries are estimated to be women, based on the demographic information available for these areas.

iv. Implementation Methodology

In view of the extensive outreach needed for the credible administration and monitoring of housing reconstruction and restoration, Government of Sindh has decided to enhance the public sector's delivery capacity through the engagement of Implementation Partners (Ips). The Ips include non-governmental organizations (NGOs) with strong, existing outreach at the community level and a proven track record of delivering disaster reconstruction programs.

These Ips have been operating across Sindh and have successfully executed mutiple physical infrastructure projects and services. The Project has utilized a screening criteria for Ips in order to ensure their requisite capacity and experience needed to support the Project implementation. Selected Ips will augment their technical capacity to appropriate levels by hiring additional technical and social mobilization staff to effectively support the housing reconstruction program. Only one IP will be designated to work on housing reconstruction and restoration in an affected district. The Ips will be charged with: (i) conducting household-level reverification surveys to confirm eligible beneficiaries for housing subsidy grants; (ii) providing technical assistance to beneficiaries, engineers, and craftsmen on multi-hazard resilient construction techniques, including program orientation; (iii) overseeing reconstruction and restoration activities to ensure quality, including site inspections to conduct engineering assessments and verifying milestones for release of payment tranches to beneficiaries; and (iv) ensuring compliance with on-site social and environmental risk mitigation measures.

Ips will also: (i) support women and other vulnerable groups in demonstrating property ownership and eligibility for grants, managing construction activities and dealing with any instances of coercion, violence or abuse; (ii) coordinate participatory land adjudication and verification processes, as well as community-driven reconstruction services for women and other vulnerable groups; and (iii) undertake outreach to women, vulnerable groups and the wider community. Female-headed and other vulnerable households

[3] Consisting of a core unit of 250 sq. ft. built to multi-hazard resilient standards and equipped with water collection system, twin pit latrine and where possible solar home solutions.

will be informed about different forms of assistance available to them under the project through awareness and information sessions that will be held at appropriate times and locations and would include support for women traveling from far-off areas. Wider engagement activities may also be required to obtain support for women's inclusion in the project among men and other 'gatekeepers' within the community.

Assignment Objective:

The SPHF is now seeking to procure engineering support services consultant to extend technical services for reconstruction and / or repair of the damaged houses (as the case may be) along with review of design documents for social sector infrastructure and disaster mitigation and preparedness interventions. Engineering support initially required for period of 18 Eighteen months, with the following scope:

1. Construction Guidelines, designs and verification Tools:
    a. The cost-effective housing units with detailed flood resilient housing architectural and engineering designs and its construction guidelines, Verification Tools complete in all respect and as per the best engineering practices and approved standards and building codes for flood affectees in 24 districts of Sindh. Including but not limited to all architectural, structural, infrastructure, watsan, electrical, plumbing designs and all other components of the flood resilient houses that shall include but not limited to general layout, construction drawings (2D and 3D rendered) and working drawings, engineer's estimates and price adjustment weightages, bill of quantities (BOQs) and technical specifications, special provisions, construction methodologies together with the environment, gender and resettlement related documents where required.
    b. Assist in developing the Tools and methodologies to ensure that all the works are carried out in full compliance with the approved architectural and engineering designs, drawings, technical specifications, Environmental and Social Management Framework (ESMF) along with environmental and social code of practices, agreed work schedule, quality and within finalized construction guidelines and approved engineering practices.
2. Capacity building and training
    a. Development of Training and Capacity Building modules of the guidelines, tools etc. of technical staff of Implementing partners (IP) and SPHF Staff along with development and finalization of training modules for craftsmen (Masson, Carpenters etc.) in multi hazard resilient housing reconstruction and training of around 20,000 craftsmen across Sindh. In addition, development training modules and information material for house support beneficiaries' orientation in multi hazard resilient housing reconstruction and maintenance (in Sindhi, Urdu and English).
3. Social Sector Infrastructure and preparedness and mitigation measures: Review and where needed design local/settlement/village level social sector infrastructure and preparedness and mitigation measures in the project area.
4. Others as per defined in ToRs below:
    a) Engineering Services for development and upgradation of Multi Hazard Housing reconstruction guidelines, designs and verification Tools for various stages of housing reconstruction.

b) Updates and modifications in reconstruction, improvement, retrofitting guidelines with innovative materials to develop multi-hazards houses with DRR as well environmental and social aspects incorporated in houses design, while ensure Flood proofing of new and existing structures.

c) Prepare the detailed architectural designs and drawings (2D and 3D rendered) comprising of all building components (building, electrical, plumbing, environment friendly design requirements etc.) as per the needs of flood affected population.

d) Ensure that community housing units and sites have the appropriate gender and disability facilitative/inclusive design features where applicable.

e) Updates and modifications in design options (multi hazard resilient houses) along with necessary engineering and technical requirements.

f) Review, updates and modify Damage Assessment / validation tools as per field requirements along with development and necessary revisions of plinth, lentil and roof level verification/certification tools.

g) Development of Training and Capacity Building modules of the aforementioned guidelines, tools etc. of technical staff of Implementing partners (IP) and SPHF Staff.

h) Development and finalization of training modules for craftsmen (Masson, Carpenters etc.) in multi hazard resilient housing reconstruction and training of around 20,000 craftsmen across Sindh.

i) Development training modules and information material for house support beneficiaries' orientation in multi hazard resilient housing reconstruction and maintenance (in Sindhi, Urdu and English).

j) Review the supply chain system/mechanisms for housing construction material and labour requirements for housing reconstruction in Sindh and provide recommendations to SPHF for smooth implementation of the project without shortfall in availability of building materials.

k) Review GIS information, reports etc. shared by SPHF and assist SPHF in planning for construction works along with preparation of conceptual, architectural, elevations and profile drawings, spot plans and layouts as per needs of specific location and E&S requirements.

l) Review the designs, BoQs and all other engineering aspects for local/community/village level social sector infrastructure and protection and mitigation structures.

m) Development of tools for settlement level flood disaster management plans for reducing vulnerabilities of population exposed to flood hazards and area specific mitigation and protection measures.

n) Prepare engineer's estimates and price adjustment weightages, bill of quantities (BOQs) and technical specifications, special provisions, together with the environment, gender and other issues, land donations related documents where required.

o) Assist SPHF in developing in conforming use of land (flood affected) to reduce impact of future disaster(s)

p) Assist SPHF in Identification of the flood risk assessment and management measures, to development of strategies to reduce that risk, along with necessary support for future Disaster Risk Management policies and programmes.

q) Other technical support to SPHF in the area of expertise of the consultant during the contract period.

Note: All the detailed designs must meet best engineering practices and existing building codes, laws and regulations which apply to such flood resilient buildings specific to each project site.

Qualification and Experience of firm

i. Corporate Capacity (core business and years of experience in same business for at least 10 years)

ii. At least three (3) similar assignments/service contract with a contract value of PKR 100 million or more completed in last ten (10) years indicating the nature and scope of these assignments in areas of design, supervision, Technical Training/Capacity Building, quality assurance in similar sectors, adoption and implementation of innovative low housing practices.

iii. Logistical capacity of the firm as evidenced through established and functioning offices.

iv. Overall technical capacity of the firm as evidenced through following key experts (equal weight to the 'education' and 'relevant experience' of the experts will be accorded for evaluation of the firm).

S.No	**Position / Required Number**	**Qualification**
1.	Team Leader 01	Education Master's degree (18 years of education) in Civil Engineering from HEC recognised institute. (PEC Registration is mandatory) Relevant Experience Ten (10) years' experience in relevant field
2.	Architect / Master/town Planner 01	Education BE/ME Civil Engineering/Town Planning or Architecture or relevant from HEC Recognized University (PCATP/PEC Registration mandatory) Relevant Experience Ten (10) years' experience in relevant field
3.	Infrastructure & Building Expert 01	Education BE in Civil Engineering/ME in Structural Engineering or related from HEC Recognized University (PEC Registration is mandatory) Relevant Experience Ten (10) years' experience in a relevant field
4	Civil/CAD Engineers	Education

	04	BE in Civil Engineering from HEC Recognized University (PEC Registration is mandatory) Relevant Experience Five (5) years' experience in a relevant field
5.	Environmentalist 01	Education BE/ME Environmental Engineering from HEC Recognized University (PEC Registration is mandatory) Relevant Experience Five (5) years' experience in relevant field
6.	Data Management/GIS Analyst 01	Education Bachelor's degree (16 years of education) in public policy, GIS, social policy, economics, Social Sciences, business administration, development studies or any other related discipline from HEC Recognized University Relevant Experience Ten (10) Years' experience in relevant field

Reporting Requirements and Time Schedule for Deliverables

Deliverable	**Description**	**Schedule**
Inception Report	Following detailed discussion with SPHF, the inception report shall be prepared which should include: • A detailed program of work including outline of methodology to be used, process monitoring and reporting formats • A complete staffing and work plan, including deployment schedule of key staff	10 days after commencement of the services [Note: A first draft will be completed in 10 days and a second (final) draft addressing comments (if any) from SPHF will be submitted within 20 days from the commencement of services]
Design Guidelines	Multi Hazard Housing reconstruction guidelines, designs and verification Tools for various stages of housing reconstruction. Prepare the detailed architectural designs and drawings (2D and 3D rendered) comprising of all	Within 30 days after the commencement of the services

Deliverable	**Description**	**Schedule**
Verification Tools	building components (building, electrical, plumbing, etc)	
	Updates and modifications in reconstruction, improvement, retrofitting guidelines	1st submission within 60 days of the contract commencement with necessary additions and improvement during the course of project.
	Review, updates and modify Damage Assessment / validation tools as per field requirements along with development and necessary revisions of plinth, lentil and roof level verification/certification tools.	1st submission within 30 days of contract commencement with necessary additions and improvement during the course of project.
Training and capacity building	Development of Training and Capacity Building modules of the aforementioned guidelines, tools etc. of technical staff of Implementing partners (IP) and SPHF Staff.	1st submission within 45 days of contract commencement with necessary additions and improvement during the course of project.
	Development and finalization of training modules for craftsmen (Masson, Carpenters etc.) in multi hazard resilient housing reconstruction and training of around 20,000 craftsmen across Sindh.	1st submission within 45 days of contract commencement with necessary additions and improvement during the course of project. 1st training within 80 days of contract commencement with completion of training programme within 6 months of the commencement
	Development training modules and information material for house support beneficiaries' orientation in multi hazard resilient housing reconstruction and maintenance (in Sindhi, Urdu and English).	1st submission within 45 days of contract signing with necessary additions and improvement during the course of project.

Deliverable	**Description**	**Schedule**
	Review the supply chain system/mechanisms for housing construction material and labour requirements for housing reconstruction in Sindh and provide recommendations to SPHF for smooth implementation of the project without shortfall in availability of building materials.	1st submission within 90 days of contract commencement with necessary additions and improvement during the course of project.
	Review GIS information, reports etc. shared by SPHF and assist SPHF in planning for construction works along with preparation of conceptual, architectural, elevations and profile drawings, spot plans and layouts as per needs of specific location.	As per requirement
	Review the designs, BoQs and all other engineering aspects for local/community/village level social sector infrastructure and protection and mitigation structures. Development of tools for settlement level flood disaster management plans for reducing vulnerabilities of population exposed to flood hazards and area specific mitigation and protection measures. Prepare engineer's estimates and price adjustment weightages, bill of quantities (BOQs) and technical specifications, special provisions, together with the environment, gender and other issues, land donations related documents where required. Assist SPHF in developing in conforming use of land (flood affected) to reduce impact of future disaster(s) Assist SPHF in Identification of the flood risk assessment and management measures, to development of strategies to reduce that risk, along with necessary support for future Disaster Risk Management policies and programmes. Other technical support to SPHF in the area of expertise of the consultant during the contract period.	As per requirement

Procurement:

1. A Consultant will be selected in accordance with the **Consultant's qualifications-based selection (CQS)** method set out in the WB Procurement Regulations for IPF Borrowers (Procurement in Investment Project Financing, Goods, Works, Non-Consulting and Consulting Services - Fourth Edition, November 2020).

2. The selection criteria are as under:

Criterion	**Score**
General Experience Organizational structure, human resource, office network, logistics etc.	20
Relevant Experience Atleast three contracts in Engineering Support/Technical Training/Capacity Building with a contract price of PKR 100 million or more during last 10 years	30
Working experience in local community	10
Working experience on the donor funded projects	10
Working experience on low-cost resilience housing	10
Team composition/experience of the experts	20

The firm securing highest score will be asked for detailed proposal and contract negotiations in accordance with the CQS provisions.