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Bid Evaluation Report

GEOSPATIAL MAPPING IN SELECTED DISTRICTS OF SINDH PROVINCE

05th August 2024

SINDH FLOOD EMERGENCY HOUSING RECONSTRUCTION PROJECT



Government of Sindh
Sindh Peoples Housing for Flood Affectees
(SPHF)



1. Background

Pakistan experienced heavy monsoon rains between June and September 2022, which has severely affected millions of households, mainly in Sindh and Baluchistan. 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 and 5,600,885 pakka 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 ~two (2) million of these houses have been damaged by the floods in Sindh alone.

2. 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 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

¹FAO Monsoon Flood Situation Update – Pakistan September 27, 2022.

² FAO Rapid Geospatial Flood Impact Assessment Pakistan, September 2022.



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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 core³ 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 multiple 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 re-verification 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

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.



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other vulnerable groups; and (iii) undertake outreach to women, vulnerable groups and the wider community. Female-headed and other vulnerable households 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.

3. Assignment Objective:

The objective of geospatial mapping to establish a detailed and accurate – with reproducible coordinates, database of rural houses in 4 districts of Sindh province for informed decision-making. The geospatial mapping of around 180 villages in Sujawal, Thatta, Badin, and Tharparkar districts with special focus on settlements, will be carried out using Board of Revenue (BoR) digitized survey land maps as baseline, if available.

4. Scope of Services

The geospatial mapping is required to be carried out using cutting edge drone technology within the pre-defined village boundaries in 4 districts by consulting firm/service provider.

The details of village and estimated total number of households are as follows:

District	Estimated total HH	Estimated No. of Villages within 15 km radius of RGC2
Sujawal	4,165	50
Thatta	3,185	50
Badin	3,120	40
Tharparkar	2,000	30
Total	12,470	170

5. Procurement Process:

Procurement Process is being carried out in accordance with rules under Sindh Public Procurement Rules 2010 (Amended 2019). Since standard bidding document (SBD) for the procurement of non-consulting service is not available on the SPPRA Web, the SBD for the procurement of goods was used after necessary edits.

i. Invitation for Bids (IFB):

Invitation for Bids was published in leading newspapers of English, Urdu and Sindhi, dated 13th July 2024 and was also uploaded on SPHF website www.sphf.gos.pk.

Copies of the newspapers clipping are attached as Annex A



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The bid submission date was 31st July 2024. A total of Three (03) Bid's were received by the closing date and time.

The details of the 03 firms submitted their Bid's within the submission date are tabulated below:

<u>S.No.</u>	<u>Name of Firm</u>	<u>Address</u>	<u>Email</u>
01	National Engineering Services Pakistan Pvt. Ltd.	1C, Block Model Town Ext, Lahore 54700, Pakistan.	info@nespak.com.pk
02	Techno Consult International Pvt. Ltd.	37-K, Block – 6, PECHS, Karachi.	email@techno-consult.com
03	AZ NavTeq (SMC-Pvt.) Ltd.	C-56, Block A, North Nazimabad, Karachi.	info@aznavteq.com

6. Bid Evaluation & Comparison of Bid Prices:

a) Preliminary Examination (Clause ITB 24):

- All submitted bids were thoroughly reviewed for preliminary assessment. It was observed that the bidding documents were properly signed and the bid securities furnished correctly by all the bidders. All submitted bids were in order and compliant to the requirements of IFB/bidding documents.
- All bids are considered to be responsive to the bidding documents.

b) Comparison of Bid Prices:

The bid prices received from the bidders as readout during the bid opening are mention below:

<u>S.No.</u>	<u>Name of Firm</u>	<u>Bid Price</u>	<u>Ranking</u>
01	National Engineering Services Pakistan Pvt. Ltd.	25,875,017	2 nd Lowest
02	Techno Consult International Pvt. Ltd.	75,000,000	3 rd Lowest
03	AZ NavTeq (SMC-Pvt.) Ltd.	5,997,250	1 st Lowest



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For the purpose of bid evaluation, the proposed taxes by the bidders were deducted in accordance with ITB clause 25.4. The total bid prices were recalculated and no mathematical error was found.

The net evaluated bid price are mentioned in the following table:

S.No.	Name of Firm	Bid Price	Ranking
01	National Engineering Services Pakistan Pvt. Ltd.	22,500,015	2 nd Lowest
02	Techno Consult International Pvt. Ltd.	75,000,000	3 rd Lowest
03	AZ NavTeq (SMC-Pvt.) Ltd.	5,215,000	1 st Lowest

c) Technical Evaluation:

Technical evaluation of the lowest bid submitted by M/s AZ NavTeq (SMC-Pvt. Ltd.) was carried out in accordance with the following criteria as mentioned in the bidding documents:

- The firm must be Registered with Survey of Pakistan, Pakistan Engineering Council and having Aerial Survey and Topographic Survey service codes.
- The firm must have at least 5 years of aerial survey working experience for urban planning, disaster management, engineering design, environmental monitoring, and inspection purposes. Experience of geospatial mapping project using drone technology in flood affected areas of Sindh will be an added advantage.
- The firm must provide company audit reports for last three 3 years.
- Proven Technical knowledge and experience in UAV mapping operations, including flight planning, data collection and coordination, and image processing and analysis.
- Technical staff with at least 10 years of experience in geospatial, geomatics, aerial surveys, and data collection.



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The Procurement Committee evaluated the bid submitted by the lowest responsive bidder. The committee thoroughly reviewed and checked all the documents provided by the bidders; the findings of the committee are tabulated as under:

Name of the lowest responsive firm: M/s AZ NavTeq (SMC-Pvt. Ltd.)		
<u>S.No.</u>	<u>Required Criteria</u>	<u>Compliant/Non-Compliant</u>
01	The firm must be Registered with Survey of Pakistan, Pakistan Engineering Council and having Aerial Survey and Topographic Survey service codes.	Complaint (Certificates are provided)
02	The firm must have at least 5 years of aerial survey working experience for urban planning, disaster management, engineering design, environmental monitoring, and inspection purposes. Experience of geospatial mapping project using drone technology in flood affected areas of Sindh will be an added advantage.	Complaint (Certificates are provided)
03	The firm must provide company audit reports for last three 3 years.	Complaint (03 years Audit reports are provided)
04	Proven Technical knowledge and experience in UAV mapping operations, including flight planning, data collection and coordination, and image processing and analysis.	Complaint (Previous Project certificates are provided)
05	Technical staff with at least 10 years of experience in geospatial, geomatics, aerial surveys, and data collection.	Complaint (Profiles/CVs of the technical staff are provided)



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7. Recommendations

Based on the evaluation and scrutiny of the submitted bids, M/s AZ NavTeq (SMC-Pvt.) Ltd. has emerged as lowest evaluated responsive bidder with a bid price of PKR 5,215,000 (exclusive of taxes). The firm has met all the eligibility criteria and provided the required documentation.

The Procurement Committee recommends awarding the contract to M/s AZ NavTeq (SMC-Pvt.) Ltd. based on their lowest bid price, compliant to all eligibility requirements, and meeting the technical parameters as set in the bidding documents.

Procurement Committee

---Signed---

(Imtiaz Ahmed)

Member/Secretary

Procurement Committee SPHF

---Signed---

(Muhammad Shahid Panhwar)

Member

Procurement Committee SPHF

---Signed---

(Malik Najaf Khan)

Chairman

Procurement Committee SPHF