

**TERMS OF REFERENCE FOR CONSULTANTS
FOR CONSULTANCY SERVICES FOR
STRENGTHENING ACCESS OF WOMEN AND VULNERABLE GROUPS IN SELECTED SLUMS
TO IMPROVE WATER AND SANITATION SERVICES
FOR
ASIAN DEVELOPMENT FUND (ADF) GRANT**

A. BACKGROUND

I. PROJECT DESCRIPTION

1. The estimated slum population of Dhaka City by 2020 is about 2.0 million (approx.). The conditions in the slums of Dhaka are worse than in most rural areas, in terms of insecurity of housing tenure, lack of safe and affordable household-level services, such as water and sanitation, and higher prevalence of gender-based violence (GBV). As women are traditionally primarily responsible for household management, they bear the brunt of these poor services in the slums. The incidence of GBV, with women and girls composing the majority of victims, tends to increase during natural and health-related disasters, such as during the lockdown due to the COVID-19 pandemic, and result in decreased access to services, disruption of social, economic, and protective networks, sudden changes in family functioning, stress and increased substance use. As per the commitment to SDG 11, Government of Bangladesh (GOB) is committed to provide access to clean water and sanitation as well as affordable urban housing for all, with emphasis on low-income communities and slum dwellers.

2. Asian Development Bank (ADB) proposes to allocate a grant from the Asian Development Fund (ADF) to strengthen the access of women and vulnerable groups in low income communities (LICs) to water and sanitation services and to promote their empowerment as a response against the corona virus disease 2019 (COVID-19) pandemic. The ADF grant is proposed to be included in the additional financing of Dhaka Environmentally Sustainable Water Supply Project (DESWSP), which is being supported by an ADB loan. The proposed ADF grant will support promoting agency and empowerment of vulnerable women and groups in underserved areas. The ADF grant project (the project) aims to

- (i) Provide safe, affordable, and sustainable water and sanitation services at community and household level;
- (ii) Support the expansion of the gender equality strategy and the development of disaster management plans of Dhaka Water Supply and Sewerage Authority (DWASA) to include the legal empowerment of vulnerable women and groups related to access to water and sanitation services; and
- (iii) Strengthen women's effective representation in the selected project area in community-based structures for greater access to basic services and the elimination of GBV.

3. This project aims to improve access to water and sanitation and promote legal empowerment of women and vulnerable groups in low-income slum communities in DESWSP's commanding and surrounding areas in Dhaka through the achievement of three outputs:

- (i) Access of women and vulnerable groups in selected slums to improved water and sanitation services strengthened,

Handwritten signature

Handwritten signature

Handwritten signature
Bahrul Islam
Superintending Engineer &
Project Director
PMU, DESWSP Dhaka WASA

- (ii) Sectoral policies, planning, and capacity for gender-responsive and socially inclusive responses to WASH challenges strengthened, and
- (iii) Participation of women and vulnerable groups in water, sanitation, and slum governance strengthened and mechanisms for their legal empowerment developed.

4. **Project Structure.** DWASA is the executing agency of DESWSP. The same Project Management Unit (PMU) of DESWSP will manage and implement the project activities supported by the ADF grant. In this regard, a project coordinator will be recruited to coordinate with the social awareness, legal empowerment consulting NGO/ Firm and the individual consultants. DESWSP PMU provided the long list of slum situated in DESWSP project area along with the location as shown in Appendix A.

II. Consulting Services

5. For output 1, in collaboration with DWASA under DESWSP, context specific civil works on safe water and sanitation technologies that improve environmental and public health at community and household level in selected slums will be implemented. At least 1,000 community toilets with separate male/female and bathing chambers benefitting 10,000 households in low-income communities will be constructed. However, it is primarily planned to construct 800 units of toilet blocks having three individual toilets in each blocks, which will yield construction of up to 2400 individual toilets. Among the toilets 50% can be allocated for women/girls and 40% for men/boys as women tend to use toilets more often than men and 10% for the disabled people, elderly people of all-gender considering the need of persons with disabilities in the design of the toilets. All-gender may be for a bigger LICs where they are higher needs. Some units may be for women only (all 3 toilets for women) if there is enough land for more than 2 units; 1 unit for women only and one nearby unit can be for men as well. Among 800 locations some can be rehabilitation of existing community toilets. In case of existing toilet rehabilitation, the contractor will provide alternative toilet arrangement including their operation and maintenance during construction period through civil works contracts.

6. Specific Individual Consultant will be recruited to design and procure the civil works contract. While DWASA will supervise the implementation of the civil works contracts. The legal rights of households in informal settlements to access safe and clean water, the issues related to tariff, cost of water and minimizing misuse of water and legal implications would be addressed. Women from the community will be formed into, or engaged in existing, Water User Group (WUG)s and oriented on their basic rights to clean and safe water and be skilled to negotiate with DWASA a consulting NGO/ Firm will closely work with the legal empowerment to ensure the issues related to legal rights of slum communities.

7. The consulting NGO/Firm will develop;

- (i) Gender-responsive and socially inclusive emergency response plans the gender needs and constraints voiced by slum dwellers as resulting from or aggravated by COVID-19;
- (ii) Training programs that address the gendered risks faced -during COVID-19- by slum-based health Para-medicals, volunteers, first responders; and social, waste, service, domestic and security workers;
- (iii) Preparation of gender-responsive COVID-19 communication strategy and tools to address the needs and constraints faced by women and vulnerable groups; and
- (iv) Gender-responsive COVID-19 community awareness campaigns targeting vulnerable women and groups.

Handwritten signature

Handwritten signature

Handwritten signature
Bahrul Islam
 Superintending Engineer &
 Project Director
 PMU, DESWSP Dhaka WASA

B. INDIVIDUAL CONSULTANT

STRUCTURAL ENGINEER

- 1.1 **Objectives of the consultancy services.** The Consultant will provide support to PMU of DESWSP in implementing civil works part of ADF fund project under DESWSP. The consultant will work for designing sustainable community toilets and bathing facilities with separate male and female arrangements considering appropriate faecal sludge management option of onsite or piped sewer. He will work closely with Faecal Sludge Management Specialist and assist in design of storage (septic tank, if necessary), complete treatment and disposal of the faecal sludge in case of onsite option is chosen. Otherwise, the consultant will assist in design of necessary pipe sewer network for disposal of faecal sludge into nearby public sewer network. The Consultant will conduct design all related civil structures for 800 units of toilets and bathing facilities along with the preparation of bidding documents as per ADB's procurement guideline.
- 1.2 **Scope of Work of the Consultancy Services.** In general, the scope of the consultancy services will include, but not limited to the following:
- (i) Identification and design of appropriate and sustainable gender friendly (women friendly) toilet technology and bathing facilities ensuring water service connection with running water for appropriate operation and maintenance;
 - (ii) Identification of the locations of 800 units of toilets and bathing facilities with separate male and female arrangements in the slum areas with the proposed ratio of toilets as motioned in para 5;
 - (iii) Designing of storage, complete treatment and disposal of the faecal sludge as appropriate;
 - (iv) Structural designing of all related civil structures for the system of toilet and bathing facilities and its treatment and disposal;
 - (v) Conduct feasibility study for the proposed toilets and bathing facilities.
 - (vi) Ensuring of community-based operation and maintenance involving women and vulnerable group;
 - (vii) Preparation of bidding documents for the construction the selected system as per ADB's procurement guideline;
 - (viii) Liaison with DWASA, other individual consultants, consulting NGOs/Firms and ADB to address all necessary issues identified for the ADF implementation.
- 1.3 **Indicative Staffing Requirement.** The Consultant will be engaged under the established Project Management Unit (PMU) of DESWSP. Immediately after mobilization, the Consultant will start working with other consultants especially Faecal Sludge Management Specialist and Social Safeguard Specialist and PMU for identification of appropriate toilet technology along with storage, treatment and disposal based on the locations in the slum areas, available water service connection, nearby available public sewer for disposal, etc. The Consultant's major responsibility will be the preparation of the detailed design of all necessary civil infrastructures in the system and preparation of bidding

Handwritten signatures and initials.

Handwritten signature of Bahrul Islam
Bahrul Islam
Superintending Engineer &
Project Director
PMU, DESWSP Dhaka WASA

documents for the construction and implementation of the system following ADB's procurement guideline. This Consultancy Services will be for 05 man-months period.

1.4 Expected Deliverables/Outputs:

- (i) Inception Report;
- (ii) Design Report;
- (iii) Bidding Documents

1.5 Minimum Qualification Requirement.

- (i) The Structural Engineer will have graduate degree in civil engineering or relevant/equivalent.

Overall Experience

- Should have at least 12 yrs overall experience in the field of design of civil works.

SPECIFIC EXPERIENCE

1. Should have at least 05 yrs practical experience in designing of sanitation and urban infrastructure related civil works will be preferable.
2. Must be familiar with participatory approaches to project design and implementation.
3. Work experience in the project funded by international donor like ADB will be preferable.
4. Should be capable to design gender friendly toilet technology and bathing facilities with community based operation and maintenance involving women and vulnerable group.

1.6 DUTIES AND RESPONSIBILITIES. The consultant will perform the following tasks:

- (i) Assess the existing sanitation systems in the slum and the projected quantity and quality of effluent in the coverage area;
- (ii) Identify problems and opportunities for the provision, operation and management of a sustainable women friendly toilet and bathing system;
- (iii) Identify nearby-sewer system available for disposal of faecal matter from the toilet and wastewater from the bathing facilities;
- (iv) Identify 800 unit locations in the slum area for toilet and bathing facilities with separate male and female arrangements with the proposed ratio of toilets as motioned in para 5;
- (v) Produce detailed situation reports for the selected slum areas;
- (vi) Survey, investigate and collect relevant data, information related to the structural design of schemes in the slums for women friendly toilets and bathing facilities, such as toilet blocks and bathing chambers, storage facilities (septic tank, soak well if necessary), treatment (onsite or offsite as designed) and disposal (onsite or disposal to public sewer) for the selected options, location specific drainage for the 800 units of toilets and bathing facilities, and any other structures associated with the implementation and management of the proposed system;
- (vii) Conduct feasibility study of the proposed system before conducting detailed design;

Ali

[Signature]

[Signature]

[Signature]
Bahrul Islam
Superintending Engineer &
Project Director
PMU, DES/WSP Dhaka WASA

- (viii) Perform detailed structural design of all civil construction works related to above mentioned schemes in (vi);
- (ix) Develop climate resilient design including the choice of materials, durability considering quick construction/rehabilitations;
- (x) Ensure water service connection with running water for proper cleaning required for operation and maintenance;
- (xi) Assist Social Safeguard Specialist and consulting NGOs/Firms in sufficient community consultation for selecting appropriate community- based operation and maintenance involving women and vulnerable group for the sustainability of the system;
- (xii) Undertake detailed design drawings, cost estimate, bill of quantities and prepare design reports for the sub-project;
- (xiii) Prepare rate analyses for all BoQ items and engineering estimates and select optimum contract packages considering implementation time, construction nature, volume and material access to the locations in the slum areas;
- (xiv) Prepare bidding documentation for all contract packages of works and goods (if any) and assist in bidding process;
- (xv) Ensure health and safety considerations including issues related to COVID 19 pandemic, are adequately covered and costed.

Handwritten signature

Handwritten signature

Handwritten signature

Handwritten signature

Bahruul Islam
Superintending Engineer &
Project Director
I'WU DESWSP Dhaka WASH

Appendix A

Long list of Low-Income Communities in or near the project area of DESWSP

Sl.	Name of Slum and Location	MOTDS Zone	Number of House Holds	Population	Water Access (Legal)	Hygienic Sanitation facilities available
1	Korail Bosti, Gulshan	5	21,946	109,728	Yes	No
2	Suttalia Bosti, Budda	5	13,673	68,364	Yes	No
3	T&T Bost, Banani	5	1,188	,5940	Yes	No
4	Bhanga Dewan Bosti, Nakhal Para	5	2,894	14,472	Yes	No
5	Godown Bosti, Banani	5	483	2,916	Yes	No
6	Sartelite Bosti, Bananai	5	4,709	23,544	Yes	No
7	Beder Bosti, Banani	5	842	3,132	Yes	No
8	Farshad Bosti, Bonani	5	2,160	10,800	Yes	No
9	Shahjahanpur Railway Bosti	6	206	1,080	Yes	No
10	Meradia, Banoshree	6	104	527	Yes	No
11	Kalimondir, Tikatoli	6	18	99	Yes	No
12	South Gaon, Meradia	6	21	105	Yes	No
13	Dhakhin Gaon, Meradia	6	40	211	Yes	No
14	Khilgaon	6	21	106	Yes	No
15	Malekerbosti	6	42	210	Yes	No
16	Uttara Section-8 Bosti, Uttara	9	21	106	Yes	No
17	3No. Dhamal Kot	10	43	216	Yes	No
18	Battola Bosti, Kalapani	10	86	432	Yes	No
19	Bahurghat Bosti, Kumritol, Kalshi	10	43	206	Yes	No
20	Bawneyabad Bosti, Bawneya	10	3,283	29,052	Yes	No
21	Kalshi Balurmath, Kalshi	10	2,823	19,116	Yes	No
22	Kalshi Beguntile, Kalshi	10	4,558	22,788	Yes	No
23	Kalshi Ceramic Bosti, Kalshi	10	43	216	Yes	No
24	Kalshi Kalapani Bosti, Kalshi	10	1,058	5,292	Yes	No
25	Kalshi Koborstan Bosti	10	86	432	Yes	No
26	Kalshi Kumritora	10	6,869	34,344	Yes	No
27	Kalshi Tekerbari Bosti	10	756	3,780	Yes	No
28	Lalashorai Uttar, Kachukhet	10	799	4,320	Yes	No
29	Lalashorai, Kachukhet	10	195	972	Yes	No
30	Lalashorai, Moddhapura	10	583	2,916	Yes	No
31	Vashantek Bosti	10	497	2,484	Yes	No
32	Gojaripotti Slum, Abdullahpur, Uttara	9	250	1,125	No	No
33	Sikder Bari Slum, Abdullahpur, Uttara	9	100	450	No	No
34	Mukjuddha Chaoni Slum, Behind the Mohakhali Bus Terminal	5	300	1,350	No	No
35	Joar Sahara Railway Slum	5	200	900	No	No
36	T.V Tower Slum, Rampura	6	100	450	No	No
37	Mowluvirtek Slum, Rampura	6	200	900	No	No
38	IPH Slum, Mohakhali	5	3000	13,500	No	No
39	Shahjadpur Jhilpar Slum	5	300	1,350	No	No
40	Purba Hajipura Slum, Mulibagh	6	500	2,250	No	No
Total			35,040	390,181		

Handwritten signature

Handwritten signature


Baharul Islam
 Superintending Engineer &
 Project Director
 PMU, DESWSP, Dhaka WASA

Long list of Low-Income Communities in or near the project area of DESWSP

No	Name of Slum and Location	MODS Zone	HH	Population	Water Access (Legal)	Hygienic Sanitation facilities available	Jurisdiction of the DESWSP Project Alignment	CBO formation
1	T&T Bosti, Banani	5	1,188	5,940	y	N	Y	Y
2	Sattelite Bosti, Bananai	5	4,709	23,544	y	N	Y	Y
3	Gojariporti Slum, Abdullahpur, Uttara	9	250	1,125	N	N	Y	N
4	Sikder Bari Slum, Abdullahpur, Uttara	9	100	450	Y	N	Y	N
5	Johra Sahara Railway Slum	5	200	900	Y	N	Y	N
6	T.V Tower Slum, Rampura	6	100	450	N	N	Y	N
7	Mowlavirtok Slum, Rampura	6	200	900	N	N	Y	N
8	Shahjndpur Jhilpar Slum	5	300	1,350	N	N	Y	N
9	Mollahir Bosti	4	800	4,000	Y	N	Within 1km	Y
Total			7,847	38,659				

Alam

[Signature]

[Signature]

[Signature]

Bahrul Islam
 Superintending Engineer &
 Project Director
 PMU, DESWSP Dhaka WASA