



Tender Schedule
for
Construction of Retaining wall

For WASH4UrbanPoor Phase-II Project

Supported by: Water Aid Bangladesh
Implemented by: SKS Foundation



SKS Foundation

College Road, Uttar Horin Singha, Gaibandha.



Tender Schedule SKS Foundation

College Road, Uttar Horin Singha, Gaibandha

“WASH4Urban Poor Phase-II” Project

Quotation for Tender Schedule for Construction of Retaining Wall

Date:



SL No	Description of Work	Quantity to be procured	Unit Quoted Cost (BDT)	Total Quoted Cost (BDT)	Remarks
CIVIL WORK: SITE PREPARATION					
1	Erection and maintenance of site office and removal of the same after completion of work in accordance with the conditions of contract. In addition to the office required for his own use of the engineer and his staff. Coordinating the works, keeping records, preparing MB books, communicating with relevant officers, and maintaining the compliances for standard work a graduate civil and architects will be supervised full-time at the site. The site office cum desk will be well protected and fascinated with relevant resources. Safety box, first aid, gumboots, safety dress, and safety helmets will be kept for used during the construction works. A working table cum setup shall be developed for furniture and electrical works. All types of dismantle portions such as herringbone road, electric pole, water pipe, garden portion, trees etc. should be set as before. Also, all the excessive/unwanted materials will be kept away from the site to ensure the work space neat and clean as before. All work needs to be completed and accepted by the Engineer-in-charge.	1.00 L/S			
EARTHWORKS					
2	Excavation: Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, leveling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry, etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout, etc. All work needs to be completed and accepted by the Engineer-in-charge.	357.00Cum			
3	Backfilling: Supply the recommended quantity of backfill materials on the required portion of the wall as shown on the drawing up to the required level of compaction. All work needs to be completed and accepted by the Engineer-in-charge.	491.00Cum			
BRICK WORK and PLASTER WORK					
4	Single/One layer of 1st class brick flat soling in the foundation or in floor with first class or picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling, etc. completed and accepted by the Engineer.	132.00 sqm			
5	125 mm new brick wall works with first class bricks in cement sand (F.M. 1.2) mortar (1:4), filling the joints fully with mortar, racking out the joints, cleaning and soaking the bricks for at least 24 hours before use, all complete including the cost of water, electricity and other charges and accepted by the Engineer.	39.00 sqm			
6	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to both inner and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity scaffolding and other charges etc. all complete in all respect as per drawing and accepted by Engineer-in-charge. (Cement: CEM-II/A) ground floor.	380.00 sqm			
7	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the corner and edges and curing at least for 7 days, cost of water, electricity scaffolding and other charges etc. all complete in all respect as per drawing and accepted by Engineer-in-charge. (Cement: CEM-II/A) ground floor.	295.00 sqm			
CONCRETE WORK					

SL No	Description of Work	Quantity to be procured	Unit Quoted Cost (BDT)	Total Quoted Cost (BDT)	Remarks
8	Reinforcement cement concrete works using wooden shutter with minimum cement content relates to mix ratio 1:1.5:3 having minimum $f_{cr}=26\text{mpa}$, and satisfying a specified compressive strength $f'_{c}=21\text{mpa}$ at 28 days on cylinders as per standard practice of code ACI/BNBC/ASTM& Cement(Bashudhara/Shah special/Seven ring) conforming to BDS EN-197-1- CEM1,52.5N(52.5MPa)/ASTM-C 150 Type -i, best quality Sylhet sand or coarse sand of equivalent F.M 2.2 and 20 mm down well graded stone chip conforming to ASTM C-33 making, shutter, placing shutter in position and maintaining .making shutter water tight properly, placing reinforcement in position, mixing with standard mixer machine with Hooper. All complete approved and accepted by the Engineer	110.00 cum			
9	Formwork (wooden) for boundary wall, gate, centry post, etc. (Formwork for boundary wall, gate, centry post, etc.). The shutter should be in standard size and made of good quality materials.	540.00 sqm			
10	Supplying, fabrication and fixing to detail as per design: Ribbed or deformed bar (BSRM/KSRM/ASK) reinforcement cement concrete (M.S Fabrication work, $F_y=500\text{MPa}$.)	8900.00 kg			
11	UPVC Pipe fitting: Supply fitting and fixing Upvc pipe of size: (300mm long & 50mm dia) on the required place of the wall portion for draining out of the water from inside to outside area. All work will be completed as per decision of the engineer in charge.	25.00 pcs			
12	Wooden Ballah: Supplying of wooden ballah having an average diameter not less than 150mm (without brakes) at a one-third distance from the larger end with a minimum end diameter of 100mm for retaining purposes and driving to a depth as per design and drawing by any method including all arrangement for staging, hoisting, carrying, etc., complete and accepted by the Engineer-in -charge.	80.00 sqm			
13	Dismantling: Dismantle RCC (Foundation, GB, column, drain, slab etc.) & Brick wall and also shift the sand & cement mixing sacks with barbet wire cutting work and also cleaning of reinforcement from the RCC structure on the existing site. Also need to clean the fresh brick from dismantle wall and also separate the reinforcement from RCC structure. As well as after dismantling all types of materials need to keep in safe distance and after completing the works need to clean the whole site as before.	75.00 cum			
14	CC Casting: Cement concrete works using wooden shutter with minimum cement content relates to mix ratio 1:2:4 having minimum $f_{cr}=26\text{mpa}$, and satisfying a specified compressive strength $f'_{c}=21\text{mpa}$ at 28 days on cylinders as per standard practice of code ACI/BNBC/ASTM& Cement(Bashudhara/Shah special/Seven ring) conforming to BDS EN-197-1- CEM1,52.5N(52.5MPa)/ASTM-C 150 Type -i, best quality Sylhet sand or coarse sand of equivalent F.M 2.2 and 20 mm down well graded stone chip conforming to ASTM C-33 making, shutter, placing shutter in position and maintaining .making shutter water tight properly, mixing with standard mixer machine with Hooper. All casting work will be completed as per provided drawing and instructions by the engineer in charge.	09.00 cum			
15	Barbed wire fittings: Only Fitting & fixing the existing MS barbet wire (1000' long within 17nos. of 10'-span) at the required places in the sites. The barbet wire needs to attach with the existing MS angel at the top portion of the retaining wall. After dismantling the previous wall need to attached the angle first and also fixed the barbet wire with it. Also, install the electric pole with MS bracer as like before of dismantling. Also supply & install 10 nos. strainer(8"x8") with 6mm MS bar provided in both directions and install in the required place of the RCC Drainage portion. All work is complete and accepted by the Engineer-in-charge.	1.00 L/S			
16	Pvc pipe fitting: Supply, fitting & fixing uPVC water pipe of RFL/Gazi/National polymer with 25mm dia, 2mm thick, need to be concealed along with the brick portion of the retaining wall all work complete and accepted by the Engineer-in -charge.	50.00 m			



SL No	Description of Work	Quantity to be procured	Unit Quoted Cost (BDT)	Total Quoted Cost (BDT)	Remarks
17	Painting: Applying a minimum 3 coats of best-branded weather coat paint of the selected color by SKS. Also, color the angle and electric pole portion. Before applying the paint need to make a smooth surface by proper hand rubbing which is completed and accepted by the Engineer-in -charge.	80.00 sqm			
18	Parking tiles: Parking tiles work (Design & quality of the tiles will be selected by SKS foundation) do as the standard way on the footpath portion along with the retaining wall. Need to finishing the tiles joint by putting and also continue curing up to require level. All tiles fitting work will be completed and accepted by the Engineer-in-charge.	45.00 sqm			
	Total (BDT)				

In Word: (.....)

Name of bona fide vendor/supplier and authorized proprietor:

Genuine vendor/supplier Institution Name:

Signature, Date & Seal:

Mobile No.:

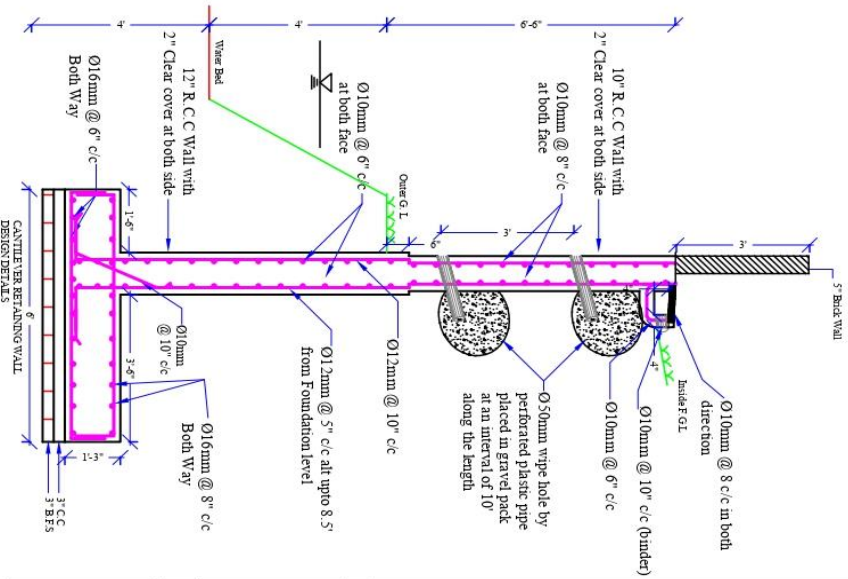
Terms and Conditions:

1. Construction Firm will be selected as per the conditions stated in the ToR,
2. Construction of the retaining wall will be as per the drawing, design, and schedule of works,
3. No any works will be accepted out of this schedule and the work order signed,
4. For quality assurance, the selected construction firm should share every step of construction works with SKS Project Engineer and necessary consultation with WaterAid Technical Person,
5. Administrative, time frame, and financial detail terms and conditions will be on the Work Order,
6. The drawing and design of the works are attached herewith.

**Admin Department
SKS Foundation**

Attachment:

1. Design
2. ToR



Aggregate = $\frac{3}{4}$ " down well graded Stone chips
 F.M. of Sylate Sand = 2.5
 F.M. of Local Sand = 1.5
 For Beam Clearcover = 1.5"
 Proportion = 1:1.5:3
 Water cement ratio = 0.45
 Allowable Slump = 2" ~ 3"
 Cylindrical Strength = 3.5 Ksi

Reinforcement = All bars are 60 grade
 Development Length, l_d

For 16mm = at compression zone 18" & at tension zone 30"
 For 12mm = at compression zone 12" & at tension zone 18"
 Lapping Length = $30d^*$ or l_d (larger value)

The lapping should be at the middle third length in between support.
 Hook length should be minimum $12d^*$

* d = Dia of Reinforcement Bar

Below GL the clear cover should be minimum 2"
 All the construction joint should be cleaned well before casting.

Before any kind of excavation in outer GL sufficient continuous lateral support should be provided at the outer face to counter balance soil passive pressure.

The bracing capacity of soil is considered as 1tsf with 20mm settlement based on the information provided by the client.

Any kind of surcharge loading adjacent to retaining wall is prohibited.

NOTES -
 1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
 2. ALL DIMENSIONS SHALL BE AS SHOWN ON THE DRAWING.
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PROJECT NAME & ADDRESS -
 Co-Compost Plant
 at
 Saidpur

DRAWING TITLE -
 Boundary Wall Detail

CONSULTANT
 Vector
 Design & Solution

TECHNICAL TEAM -
 ARCHITECTURAL
 STRUCTURAL

Standard Islam (AITEB)
 BSc. and MSc. in Civil

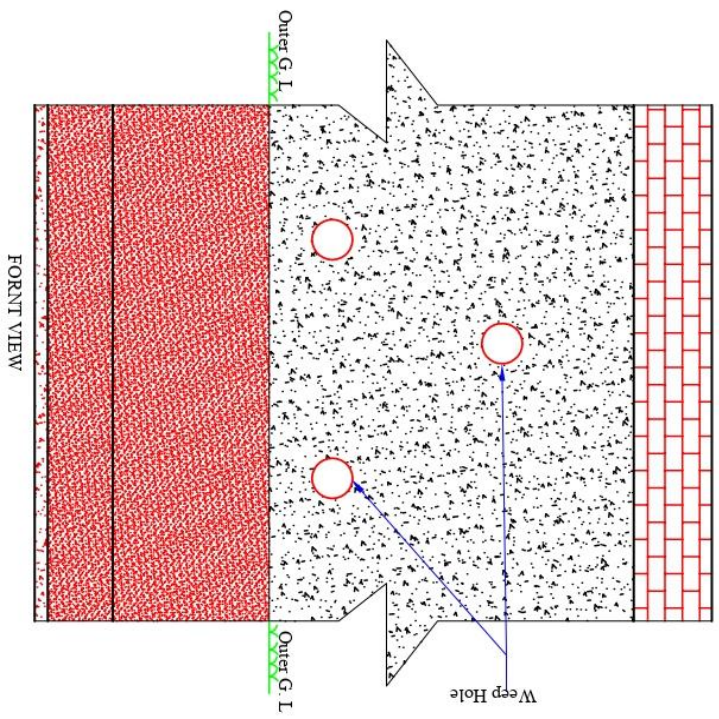
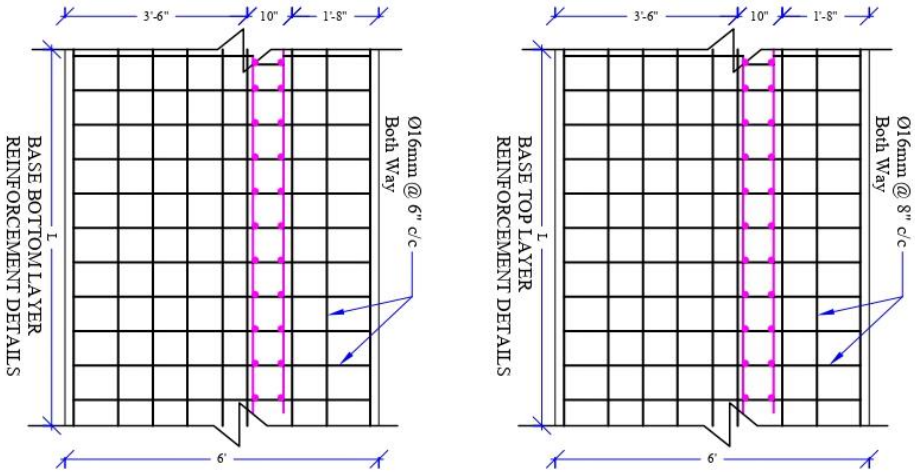
COMPUTER PRESENTATION

CLIENT

SHEET NO. -

SN- 01

DATE -
 January, 2022



NOTES -
IN CASE OF ANY CONVERSION IN THE
DIMENSIONS OF STRUCTURAL MEMBERS SUCH
AS: COLUMN SIZE, BEAM SIZE, SLAB THICKNESS,
PILE OR PILE THICKNESS, LINTEL, ROOF ETC., THE
MANAGEMENT/CLIENT/ARCHITECTURAL &
ARCHITECTURAL DRAWINGS HAS TO BE
REVISORIAL.

PROJECT NAME & ADDRESS -
Co-Co-Compost Plant
at
Saidpur

DRAWING TITLE -
Boundary Wall Detail

CONSULTANT
Vector
Design & Solution

TECHNICAL TEAM -
ARCHITECTURAL

STRUCTURAL
Shahjal Islam (AIEE)
BSc. and MSc. in Civil

COMPUTER PRESENTATION

CLIENT
WaterAid
Bangladesh

SHEET NO. -
SN-02

OUTPUT -
October, 2021



SKS

Terms of Reference (ToR) for

Selection of 'Construction Firm' for Retaining Wall Construction at FSTP, Saidpur

Background and Purpose of this ToR

WASH for Urban Poor (Phase-II) Project of SKS Foundation, supported by WaterAid Bangladesh at Saidpur Pourashova area intends to construct a '**Retaining Wall**' at its '**Fecal Sludge Treatment Plant (FSTP)**', which will actually act as a strong boundary wall of the plant. The purpose of construction of this Retaining Wall Structure is to ensure prevention of soil erosion, protect stability of the slope, cordon the whole plant for ensuring security & safety and also maintain the integrity of nearby other infrastructures already constructed in the plant. As the Retaining Wall is not just a simple wall, its' engineering drawing, design, reinforcement, estimate and ultimately construction in the ground is critical than that of construction of a simple boundary wall. That's why, it requires proper attention to its every step from very beginning of drawing, design, estimate, engineering construction firm selection for this purpose. This Terms of Reference (TOR) outlines the scope of work; tender invitation; evaluation of the tenders submitted, orientation to the finally selected construction firm, issue of work order etc. and also some other technical aspects to be agreed upon to carry out the construction works as expected.

Scope of Work

The following bullet points to be considered as the scope of works (to be done by the selected construction firm) for construction of the expected (as per design) Retaining Wall at FSTP site, Saidpur Pourashova:

- Location of the construction site: FSTP site under Saidpur Pourashova area, Nilphamari,
- Site survey and preparation, including temporary protection against waterbody beside FSTP during construction,
- Excavation and earthworks.
- Constructions of the retaining wall, casting of foundations & super-structures, drainage systems, brick works, plastering, barbed wire fixing, tiles fitting, paintings, backfilling and site cleaning etc.
- Ensuring construction materials are as per specification stated at tender schedule document,
- Ensuring safety measures for workers and nearby structures,
- Quality control, testing (Materials) to be ensured for compliance and specifications,
- Construction should be as per Drawing and Design of the retaining wall and getting relevant instructions from (SKS and WaterAid Bangladesh) technical persons.
- No additional works to be done out of the Work Order signed, unless any written variation order is issued
- Submission of progress and completion reports as per specified template (if any),

Eligibility for Participating this Bidding

Considering different critical aspect of this construction, reputed and experienced '**Construction Firms**' are only eligible to participate this bidding process. However, the following points will also be considered for eligibility of participation:

- Having valid and legal trade registration as **Construction Firm** only,
- Bangladeshi construction firms only and enlisted with Local Government Engineering Division (LGED) of Bangladesh Government,
- Construction firms having adequate experience in medium to large scale construction works (buildings, large drains, retaining walls, roads etc. However, experience of construction of retaining wall will be considered as prime qualification,



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- Material supplier or a trader for construction material supplying will not be eligible here,

Tender Dropping:

Like traditional selection process, tender/bidding documents will not be received through dropping at tender box and opening thereafter. Rather, tender/bidding documents would be received through E-mail. All the tender/bidding documents would be at **PDF form only (no soft copy will be accepted)**. There will be no any pre-bidding or any tender opening meeting with the bidders in this process. The following **bidding documents** must be submitted through E-mail for this competitive bidding process:

- Forwarding letter (**pdf copy**),
- **Technical Proposal (pdf copy)**: Should include scope of works, methodology to be followed for different components of retaining wall construction such as RCC works, curing, etc., quality control mechanism in place, health and safety, checklist, a detailed workplan/Gantt chart which must be rational and sequentially logical, experiences of relevant construction works, experience of retaining wall construction will be considered as **prime qualification**, should also include equipment, tools, human resources profile of the firm, CV of key personnels, relevant evidences and documents.
- **Financial Proposal following the tender schedule (pdf copy)**,
- **Work plan (pdf copy)**

The relevant other documents are also to be submitted along with the **bidding documents** stated above otherwise the bidding will be rejected:

- A detailed profile of the Firm (**pdf copy**): This should include Services offered, Key projects - completed and ongoing, evidences of previous experiences, team composition, CV of Key personnel, list of construction equipment etc.
- Updated and legal trade registration with relevant Bangladesh Government Authority (**scan/pdf copy**),
- Valid VAT registration document (**scan/pdf copy**),
- Updated and valid income Tax submission document (**scan/pdf copy**),
- Last one-year legal bank statements showing 50% of the quoted amount balance (**scan/pdf copy**).
- Evidence/certificate of completion of previous retaining wall construction and a good photo (**scan/pdf copy**),

The evaluation committee will consider the abovementioned documents only for evaluation of the bidders. No need to submit any other additional documents. The bidding should be sent to the following Email ID: **<procurement@sk-s-bd.org>**, with copy to **<director_se@sk-s-bd.org>**,

Bidding/Tender Evaluation

The evaluation of tenders will be carried out based on the following key criteria and scoring points: **{Total Evaluation Score (100) = Technical (30) + Financial (60) + Lead Time (10)}**. So, the final selection of the potential bidder is not depending on the lowest bidding amount, rather, depending on the total score obtained out of 100. Technical and Financial Proposals will be evaluated separately.

Technical Evaluation (Total score point is 30):

Bidders will be evaluated based on their technical capability stated on technical proposal and examining the relevant documents they attached. However, the key aspects to be considered while technical evaluation:



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- Relevant Experience (score point 10): Experience in construction of retaining wall. Provide evidence such as project/retaining wall completion certificate with client reference. **One relevant exp. evidence required for getting full marks otherwise get no marks.**
- Others/ irrelevant Experience (score point 10): Experience in various types of construction projects such as Residential/School Building, road, culverts, toilets, land development works, boundary wall or any others works. Provide evidence such as project completion certificates or client references. **Three evidences required for getting full marks otherwise get partial/no marks.**
- Organizational profile (score point 10): The profile is expected to be provided following the template given. **The profile ensuring all the information will get full marks otherwise get partial/no marks.**

Financial Evaluation (Total score point is 60)

The financial proposals of the bidders will be evaluated on the basis of the estimated value of the works.

Quoted price: This score will be considered based on the quoted price submitted by each bidder. Before assessing this part should be checked with our estimated cost for each item whether these are conventional considering current market. The lowest bidder will get the full marks. However, the quotation below or above the range of maximum 10% of our estimated price should be disqualified.

- For the others bidders the mark calculation will follow the rules:
Score on Quoted amount = {(Min. quoted rate / individual quoted rate) * 60},

Lead Time (Total score point is 10):

- A detailed oriented timeline to do the works or step-by-step working procedure addressing required time for completing the works. The assessment will be based on sequences, consistency and detailing of the activities mentioned in the technical proposal / work plan. On the time sheet contractor must be inserted every step from site preparation to handover of the work highlighted with required time. **Detailed oriented time sheet will get full marks otherwise get partial/no marks.**

Considering the time, nature, critical technical aspects of the construction, this tendering process will remain valid even if the number of competitor bidders found less than 3, provided the evaluation done following the standard set here above and the committee recommends. Whatever may be the policy, nether SKS nor WaterAid Bangladesh will put any question on it.

Tender Evaluation Committee

A three-member evaluation committee will be formed for evaluation of the bidders for this purpose. The committee will consist of 3-members of SKS Foundation: Md. Saiful Alam, Director-Development Programs, Mr. Mofakharul Islam, Deputy Director-Admin and Md. Firoj Shah, Senior Officer-Asset Management and Procurement to finalize the process.

Notification to Primarily Selected Bidder

Based on the highest score obtained, only the primarily selected bidder will be notified through Email/cell phone about the state of primarily selection and will invite for further discussion and some sorts of orientation about the construction works, technical aspects, work plan submitted, quality control, joint monitoring of the progress, joint monitoring of the post works, payment procedure, and work order issuing, etc. **It will not be possible to notify all the bidders to inform the status of the selection.**



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Earnest Money

A pay order amounting 2.5% of the bidding amount (BDT) should be submitted in favor of SKS Foundation by the selected Construction Firm.

Work Order Issue

SKS will issue a Work Order to the finally selected bidder organization signed by Chief Executive. However, the draft Work Order will be shared with WaterAid Bangladesh for their comments if any and adjustment thereafter. An orientation will be organized for the selected bidder at the time of signing the Work Order.

Payment Procedure

Payment to the vendor will be provided two times during the construction works. First payment might be paid at the completion of 60-70% of the works as per progress monitoring done jointly and together with SKS, WaterAid, and the vendor. The final payment will be done after total (100%) completion of the works.

Submission deadline for the Bidders:

23 October 2024