

M/s Zaman Traders**Section 6. Bill of Quantities****Bill of Quantities**

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price (In figures: BDT)	Unit Price (In words: BDT)	Total Price (In figures: BDT)	Total Price (In words: BDT)
1	N/A	N/A	Earthwork in Removing sludge or semi-liquid clay/substances etc not suitable for pumping out or carrying by head load from the bottom of any marshy land, lake, ditch, pond by mixing fine local sand of F.M. 0.8 or less to a proportion such that it can be carried to an intermediate point of disposal and cutting the same including stacking and spreading properly on a suitable place to dry in the sun for a certain days and dispose the dried sludge or clay to a safe distance etc. complete and accepted by Engineer-in-charge subject to submit method statement to the engineer in charge for carrying out the works including ultimate disposal of the sludge under this item for approval. However, engineer's approval shall not relieve the Contractor of his responsibilities and obligations under the contract.	Cum	173.610	151.201	One Hundred and Fifty-One point Two Zero One	26250.006	Twenty-Six Thousand Two Hundred and Fifty point Zero Zero Six
2	N/A	N/A	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	Sqm	72.860	572.401	Five Hundred and Seventy-Two point Four Zero One	41705.137	Forty-One Thousand Seven Hundred and Five point One Three Seven

3	N/A	N/A	Sand filling in foundation trenches and plinth with sand having F.M 0.8 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 90% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design office only etc. all complete and accepted by the Engineer.	Cum	150.930	420.071	Four Hundred and Twenty point Zero Seven One	63401.316	Sixty-Three Thousand Four Hundred and One point Three One Six
4	N/A	N/A	Bailing out of trapped water caused by inundation or rain, by pump from foundation trenches.	Hour	136.000	246.601	Two Hundred and Forty-Six point Six Zero One	33537.736	Thirty-Three Thousand Five Hundred and Thirty-Seven point Seven Three Six
5	N/A	N/A	Supplying of wooden ballah having an average diameter not less than 150 mm (without barks) at one third distance from larger end with a minimum end diameter of 100 mm for retaining purpose 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.	RM	1195.120	543.601	Five Hundred and Forty-Three point Six Zero One	649668.427	Six Lakh Forty-Nine Thousand Six Hundred and Sixty-Eight point Four Two Seven
6	N/A	N/A	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum f'_{cr} = 33.5 MPa, satisfying a specified compressive strength f'_c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type ? I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and	Cum	22.222	13144.492	Thirteen Thousand One Hundred and Forty-Four point Four Nine Two	292096.901	Two Lakh Ninety-Two Thousand AND Ninety-Six point Nine Zero One

			20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering): (Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level)						
7	N/A	N/A	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum f'_{cr} = 33.5 MPa, satisfying a specified compressive strength f'_c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / 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 chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification),	Cum	13.340	13467.602	Thirteen Thousand Four Hundred and Sixty-Seven point Six Zero Two	179657.811	One Lakh Seventy-Nine Thousand Six Hundred and Fifty-Seven point Eight One One

			conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering): (Pedestals, column, column capital, lift wall and RCC wall up to ground floor)						
8	N/A	N/A	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum f'_{cr} = 33.5 MPa, satisfying a specified compressive strength f'_c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / 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 chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing	Cum	17.650	13273.192	Thirteen Thousand Two Hundred and Seventy-Three point One Nine Two	234271.839	Two Lakh Thirty-Four Thousand Two Hundred and Seventy-One point Eight Three Nine

			reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering): (Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. upto ground floor)						
9	N/A	N/A	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Centering and shuttering, including strutting, propping etc. and removal of formwork for: Individual and combined footing	Sqm	91.078	470.701	Four Hundred and Seventy point Seven Zero One	42870.506	Forty-Two Thousand Eight Hundred and Seventy point Five Zero Six
10	N/A	N/A	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Centering and shuttering, including strutting, propping etc. and removal of formwork for: Padestals, column, wall	Sqm	196.820	473.401	Four Hundred and Seventy-Three point Four Zero One	93174.785	Ninety-Three Thousand One Hundred and Seventy-Four point Seven Eight Five
11	N/A	N/A	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Centering and shuttering, including strutting, propping etc. and removal of formwork for: Tie beam & lintels	Sqm	197.510	468.901	Four Hundred and Sixty-Eight point Nine Zero One	92612.637	Ninety-Two Thousand Six Hundred and Twelve point Six Three Seven
12	N/A	N/A	Supplying, fabrication and fixing to detail as per design : ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and	P/kg.	6405.730	108.901	One Hundred and Eight point Nine Zero One	697590.403	Six Lakh Ninety-Seven Thousand Five Hundred and Ninety

			marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI) including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires,conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard). Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.						point Four Zero Three
13	N/A	N/A	125 mm brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M) In ground floor	Sqm	319.170	1267.201	One Thousand Two Hundred and Sixty-Seven point Two Zero One	404452.543	Four Lakh Four Thousand Four Hundred and Fifty-Two point Five Four Three

14	N/A	N/A	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 the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor.	Sqm	817.840	283.501	Two Hundred and Eighty-Three point Five Zero One	231858.458	Two Lakh Thirty-One Thousand Eight Hundred and Fifty-Eight point Four Five Eight
15	N/A	N/A	Exterior standard acrylic emulsion paint of approved best quality and color having water resisting properties and resistance properties against fungi, fading & flaking delivered from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	Sqm	817.840	246.601	Two Hundred and Forty-Six point Six Zero One	201680.162	Two Lakh One Thousand Six Hundred and Eighty point One Six Two
16	N/A	N/A	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in	Sqm	122.680	930.601	Nine Hundred and Thirty	114166.131	One Lakh Fourteen Thousand

			fencing work @ 150 mm c/c both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. Y-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint, R.C.C /brick work or C.C. which is to be paid as per corresponding items in the schedule).				point Six Zero One		One Hundred and Sixty- Six point One Three One
17	N/A	N/A	Making Monogram of Dhaka WASA with MS Sheet and fitting fixing including welding etc as per direction of the Engineer in Charge.	Each	23.000	989.964	Nine Hundred and Eighty- Nine point Nine Six Four	22769.172	Twenty- Two Thousand Seven Hundred and Sixty- Nine point One Seven Two
18	N/A	N/A	Ordinary labour (For Carrying)	p/day	75.000	554.401	Five Hundred and Fifty- Four point Four Zero One	41580.075	Forty-One Thousand Five Hundred and Eighty point Zero Seven Five
							Grand Total:	3463344.045	Thirty- Four Lakh Sixty- Three Thousand Three Hundred and Forty- Four point Zero Four Five

*** Note:** All applicable taxes, custom duties, VAT and other levies payable by the Contractor under the Contract shall be included in the unit prices submitted by the Tenderer.

This Section 6. Bill of Quantities is Electronically Signed by Mr. Md. Rashed Kabir on behalf of M/s Zaman Traders