

UCEP BANGLADESH

PROJECT NAME: CONSTRUCTION OF A PROPOSED 5 STORIED (G+4F) UIST BULIDING AT AMBAGAN, CHATTOGRAM.
Construction Upto G+2F with Five Storied Foundation Building

LOCATION: AMBAGAN, CHATTOGRAM

Summary of Bill of Quantities (BoQ)			
SL	Description of Items	Amount in Tk	Remark
1	PART-A:- CIVIL WORK		
2	PART-B:-PLUMBING WORK		
3	PART-C:- ELECTRICAL AND OTHER WORKS		
Grand Total Amount (Including VAT & AIT)		-	
Say, Grand Total Amount (Including VAT & AIT)			
In word:			


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BOQ FOR CONSTRUCTION OF PROPOSED 5 STORIED UIST BUILDING AT AMBAGAN, CHATTOGRAM

PART-A:- CIVIL WORK

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SL.	Description of Items	Unit	Qty	M	Total amount (Tk.)
1	Providing necessary facilities in construction site for maintaining site safety of minimum 30 nos construction worker including safety helmet, safety belt, apron, gumboot, goggles etc.	set	30 nos		-
2	Providing and maintenance one project profile signboards to be placed at a suitable place of the site including submission of proposals for the materials of the signboards and text layout containing 3D picture, safety instructions, project information with security light etc. to the Engineer-in-charge for approval which will be positioned as directed by the Engineer-in-charge and removing the same on completion of the works or as instructed by the Engineer-in-charge.	sqm	1		-
3	Lay out and marking for earthwork in excavation in Foundation accepted by the Engineer-in-charge.	SqM	500		-
4	A) Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead	CuM	731		-
	B) .Added rate for each additional 0.5 meter depth exceeding 1.5 meter.	CuM	731		-
	C) Added rate for each 1m additional Lead beyond 10m.	CuM	90		-
5	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 250 mm in foundation and superstructure and removal of debris to a safe distance. Dismantling of plain concrete made of lime or cement and removal of debris to a safe distance. (Dismantling Floor, water tank, septic tank, soak pit, deep tubewell floor.)	CuM	27		-
6	Cleaning and disposing of excavated earth from the construction site by truck or by any other means to a place within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried earth etc. complete and accepted by the Engineer-in-charge.	CuM	27		-
7	Sand filling in foundation trenches and others and plinth in 150 mm layer with carted earth carried by truck or by any other means including loading and unloading at both ends, leveling, watering and compacting to achieve minimum dry density of 95% with optimum moisture content (modified proctor test) including	CuM	490		-
8	Mass Concrete in foundation (1:2:4) in foundation or in floor with cement, sand F.M. (1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity costs of tool & plants and other charges etc. all complete and accepted by the Engineer-in-charge (Cement: CEM-II/B-M).	CuM	125		-
9	One layer Brick flat soiling in ground floor with picked jhama bricks (BDS 208) including preparation of bed and filling the Interstices with local sand leveling etc. Complete and accepted by Engineer-in-charge.	SqM	280		-

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10	RCC WORKS: Ready mix concrete (RMC) with approved mix design, well graded stone chips (100% Sylhet Sand of F.M. 2.2) and required admixture; Reinforced cement concrete works (1:1.25: 2.5) or as per Mix design, from RMC with minimum cement content relates to approved mix ratio having minimum $f'_{cr} = 40.5$ MPa, satisfying a specified compressive strength $f'_c = 32$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, Cement conforming to BDS EN-197-1-CEM-I, 52.5N, 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), High-range water reducing chemical admixture Type-F under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water- tight properly, placing reinforcement in position; using machine batched concrete using cement content as per approved design mix (minimum 385 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering, curing after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge including laboratory test fees. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering).- Footing, grade beam, column, beams, column capital and RCC- beam, slab, stair etc (Foundation to 4th floor)	CuM	613.432		
11	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum $f'_{cr} = 26$ MPa, satisfying a specified compressive strength $f'_c = 19$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming to ASTM C-33 including conducting necessary tests, breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in 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. Drop wall, louver, lins, sunshade,lintel, false ceiling and any other ancillary non structural members at any location	CuM	18.18		
12	Exposed 125 mm thick pointing ornamental brick work with automatic machine made 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	SqM	2680		
13	Minimum 12mm thick cement sand (F.M.1.2) plaster (1:4) with fresh cement cement t both inner-and outer surfac Of wall, celling, 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).	SqM	4,390		
14	MS deformed bar: Grade 500 (B500DWR:Complying BDS IS 6935-2:2016/ASTM A615) ribbed or deformed bar produced and marked According to Bangladesh standard, with Minimum yield strength $f_y=500$ MPa and whatever is the yield strength within allowable limit as per BNBC/ACI 318,The ratio of ultimate tensile strength to actual yield strength f_y, shall be at lest 1.25 and minimum Elongation after fracture and minimum Total Elongation at maximum force is 17% and 8% respectively.	Ton	119		

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15	Manufacturing, supplying, fitting MS grill works at window, fanlight etc. as per design with outer frames having 38mm x 38mm x 6 mm M.S. angle and Inner members having 10mm dia m.s. rod placed @ 100 mm c/c diagonally on both direction, welding each criss-cross End of rod with corners of outer frame Including cutting rods and size angles to Required shapes and size and setting the entire fence with the previously Installed box tube (box tube made with 2 nos. angle) post including thorough and full welding the frame with the angle box posts, paint 2 coats of synthetic enamel paint over a coat of Anti-corrosive priming etc. all complete As per drawing and accepted by the Engineer-in-charge. (rate is including the cost of enamel paint)	SqM	265		
16	Supply, fitting, fixing of aluminum sliding windows, doors as the U.S. Architectural Aluminum Manufacturer's Association (AAMA) Standard specification and BDS 1879:2014, Keeping provision for fitting 5mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage and electricity complete in all respect as per drawing and accepted by the Engineer – in – charge. Size up to: 1500mmx1400mm.	SqM	285		
17	Supplying fitting and fixing of aluminium box fixed louver as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 50mm x 25 mm, 1.5 mm thick outer section and horizontally @ 75 mm c/c fixed with above mentioned frame and all aluminium members will be anodized to aluminium with a coat not less than 15 micron in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer. Anodized to any colour	SqM	65		
18	250 MM thick brick work with 1st class bricks with cement sand (F M 1:2) mortar (1:4) in foundation and plinth , filling the joints/interstices fully with mortar, racking out the joints, cleaning And soaking the bricks at least for 24 hours before use and curing at least for / days etc. all complete including cost of Water, electricity and other charges and accepted by the Engineer –in-charge. (Cement: CEM-II/B-M).	CuM	20		
19	Supplying, fitting and fixing country made GP (Glass Porcellanto) glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). GP (homogeneous) 300 mm x 600 mm floor tiles	SqM	1280		
20	Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015. Irrespective of color &/or design, with 20 mm thick cement Sand (F.M. 1.2) mortar (1:3) base and Raking out the joints with white cement including cutting, laying and hire charge of machine and finishing With care etc. Including cost of water, Electricity and other charges complete In all respect and accepted by the Engineer-in-charge. (Cement :CEM-II/B-M). Wall tiles for toilets/kitchen (250mmx400mm) or any sizes	SqM	92		
21	Supplying, fitting and fixing country made rustic or matt finished wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (F.M. 1.2) Mortar (1:4) base and ranking Out the joint with white cement including cutting, laying and hire charge Of machine and finishing with care etc. Including water, electricity and other charges in In all respect and accepted by the Engineer-in-charge. (Cement :CEM-II/B-M). Rustic stair tiles of size. (600mm X 600mm) or any	SqM	82		

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22	Supplying fitting and fixing stainless steel (SS) Stair railing of stair railing of standard height with 2mm thick 62 mm dia SS Pipe for hand-rail, 2mm thick 40mm dia 5 nos vertical SS Pipes in each flight, 1.5mm thick 40mm dia 5 nos horizontal SS pipes as per drawing, design including carrying, polishing, fabricating, welding and fixing	SqM	78		
23	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 40 mm dia 5 nos vertical SS pipes in each flight, 1.5 mm thick 20 mm dia 5 nos horizontal SS pipes as per drawing, design including carrying, polishing, fabricating, welding and fixing with tread by 25 mm long royal bolt etc. all complete and accepted by the Engineer-in-charge. S.S steel works with tempered glass for balcony, stair, lobby etc. all including	SqM	3150		
24	Interior standard acrylic emulsion paint (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling 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 interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	SqM	1020		
25	FORM WORK (Wooden): centering and shuttering, including strutting propping Etc. and removal of from for: 1) Individual, raft and combined footings etc 2) Cornice, railing, drop wall, louver, fins etc. 3) Sunshade, false ceiling 4) Stair case slab and steps	SqM SqM SqM SqM	206 180 98 35		- - - -
26	FORM WORK (steel) : Centering and shuttering, including strutting propping, bracing etc. and removal of from for: 1) Pedestal, column any type, column capital, walls etc 2) Grade beam/ Tie beam and lintel 3) T-beam, L-beam and rectangular beam etc. up to ground floor 4) Beam, Floor and roof slab up to 4th Floor.	SqM SqM SqM SqM	375 580 1080 1820		- - - -
27	Supplying and making door and window frames (Chowkat) for all floors including wall side groove cutting, moulding by CNC machine or any other means with matured seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished). Frame made from seasoned Mehgoni wood (Chemically treated) Up to Size 0'-2.5" x 0'-6" (finished)	CuM	11.8		

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28	Supplying fitting and fixing of 38mm Thick well matured wood plank (moisture content Should be between 12% to 16%) solid wood single leaf door shutter having Stile section 100mm x 38mm,top rail section 125mm x 38mm,lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250 mm wide plank) with 4 nos 100mm long ,3mm thick hinge, 12mm dia 250 mm long tower bolt, 12mm dia 200mm long socket bolt ,2nos 150mm long handle, hinged cheats and buffer blocks, ms clamp, mortice lock, hydraulic door closer etc. all completed including varnish work Accepted by the engineer-in-charge. (all sizes of wood are finish and including varnish work) Gamari, / Mehgoni (SS Fittings);	SqM	52		
29	Supplying, fitting and fixing of 40mm thick Wood plastic composite (WPC) door shutter (minimum inner wall thickness 6mm and hinge side wall thickness 15mm) Having door frame section 150mm x 62mm weighing 16.7kg/ sqm with 4nos 100mm long, 3mm thick hinge,1 no round lock,2nos 150mm long handle,hinged cleats and carrying the same to the site and local carriage etc. all Complete in all respect and accepted by The Engineer-in-charge. Door size 6'9"x 2'6"	each	16		
30	Safety net with G.I Wire: Supply, fabrication, installation and taking out temporary horizontal safety net around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of Chain link net with 24 BWG wire fitted at 15' 0" height horizontally of the outer periphery of the building with 75 mm x 40 mm x 5 mm MS Chanel post and purlin, 20 mm MS Rod and 40 mm x 40 mm x 6 mm MS Angle as ties etc. by standard anchoring and welding, nut-bolts etc. all complete and accepted by the Engineer-in-charge. (Salvage materials shall be the contractors property after completion of work.)	sqm	252		
31	Approximate 5 feet wide and 15 feet long (variable) MS gangway construction between old and new building with railing, Industrial sheet roof including all necessary materials, accessories etc at 1st, 2nd, 3rd and 4th floor level	LS	1		
Total Amount (PART-A) including Govt.VAT					-
Add AIT					-
Total Amount (PART-A) Including Govt VAT & AIT					-

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BOQ FOR CONSTRUCTION OF PROPOSED 5 STORIED BUILDING FOR UIST AMBAGAN, CHATTOGRAM

PART-B:- PLUMBING WORK

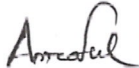
SL.	Description of Items	Unit	Qty.	Rate (BDT)	Total amount (BDT)
1	Supplying, fitting and fixing of country made European type special quality combi closet (one piece) including inbuilt flushingUnit, of white color, including plastic seat cover with soft closing,Cistern system, water consumption 6 liter, siphon jet single flushing system which reduce water consumption, hygienic glaze In toilet bowl , glaze in inner waste line, round bowl, outlet range 280 ~305 mm. The sanitary ware shall conform BDS1162:2014.The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5mm.when assembled Together and when examined from a distance of 60cm, the outer Surface shall not show to the unaided eye , blemishes or defects In excess of those listen in BDS Standard. The mean value of waterAbsorption shall not be 0.5% of the ware when dry. When tested With chemical solution (Acetic acid, citric acid, Detergent, hydrochloric acid, sodium Hydroxide, sodium stearate and sulfuric Acid of various strength) as per DD51162:2014 procedure, none of The test pieces should suffer any loss of reflectivity on the glaze. Three shall be no crazing and no stain on the ware. The materials Used for marking glaze shall not contain lead compound. In case Of certain coloring oxides used for making colored glaze, the lead Content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked At a prominent place, visible even after the appliances are installed With the following : a) manufacturer's name and/ or registered Trademark, b)the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI certification mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including marking hoes Wherever required and mending good the damages and fitting, fixing , finishing, complete with all necessary fittings and connection approved and accepted by the Engineer -In Charge.				
a.	Approx. 700~725 X 360~ 380 mm size, minimum 34.1 kg of weight; Equivalent to COTTO - C1470/ RAK: Venic or similar brand	pcs	10		-

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2	Supplying and fitting – fixing stainless steel head/push shower for ablution including Holder etc. all complete approved and accepted by the Engineer-in-charge.				
a	Moving type push shower	pcs	14		-
3	Supplying, fitting and fixing of country made glazed vitreous standing bowl urinal. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5mm. when assembled Together and when examined from a distance of 60cm, the outer Surface shall not show to the unaided eye, blemishes or defects In excess of those listen in BDS Standard. The mean value of water Absorption shall not be 0.5% of the ware when dry. When tested With chemical solution (Acetic acid, citric acid, Detergent, hydrochloric acid, sodium hydroxide, sodium stearate and sulfuric Acid of various strength) as per BDS1162:2014 procedure, none of The test pieces should suffer any loss of reflectivity on the glaze. Three shall be no crazing and no stain on the ware. The materials Used for marking glaze shall not contain lead compound. In case Of certain coloring oxides used for making colored glaze, the lead Content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked At a prominent place, visible even after the appliances are installed With the following : a) manufacturer's name and/ or registered Trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI certification mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including marking hoes Wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the engineer –in- charge.				
a	Approx. 300 x 350x490 mm size minimum 18.0 kg of weight,	pcs	8		-


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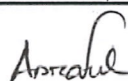
4	Supplying, fitting and fixing of country made glazed vitreous W/H wash basin of any color including pedestal. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5mm. when assembled Together and when examined from a distance of 60cm, the outer Surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS Standard. The mean value of water absorption shall not be 0.5% of the ware when dry. When tested With chemical solution (Acetic acid, citric acid, Detergent, hydrochloric acid, sodium hydroxide, sodium stearate and sulfuric Acid of various strength) as per BDS1162:2014 procedure, none of The test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials Used for marking glaze shall not contain lead compound. In case Of certain coloring oxides used for making colored glaze, the lead Content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked At a prominent place, visible even after the appliances are installed With the following : a) manufacturer's name and/ or registered Trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI certification mark. The fixture should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including marking holes Wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the engineer –in- charge.				
a.	Approx. 584 x 437 mm, minimum weight 20.0 kg	pcs	5		-

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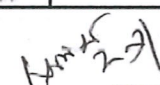
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5	Supplying fitting and fixing of best quality CP basin / sink mixer. The faucet conforms BDS EN 200:2009 The faucet tap shall be free from any leakage, permeation and other abnormalities .the water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat leakage and shall satisfy the reverse flow prevailing performance. The inside and outside surfaces of the faucet Shall be smooth and be free from blowholes. Fissures ,remarkable flows or injurious defects. The chromium plating on the faucet shall be class 2 Grade 1. The final coating should be done with chromium of minimum 0.1 micron tle Faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the engineer –in –charge.				
a.	Moving basin mixer	pcs	12		-
6	Supplying, fitting and fixing of best quality Pillar cock made from copper or copper Alloy, chromium plated materials .the faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities .the water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat leakage and shall satisfy the reverse flow prevailing performance. The inside and outside surfaces of the faucet Shall be smooth and be free from blowholes. Fissures ,remarkable flows or injurious defects. The chromium plating on the faucet shall be class 2 Grade 1. The final coating should be done with chromium of minimum 0.1 micron tle Faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the engineer –in –charge.				
a.	CP Two way Swan Cock	pcs	14		-
7	Supplying, fitting and fixing of best quality surface mounted or conceal stop - cock/angle stop cock/Bib Cock (lever or round headed) with wall flange chromium plated. the faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities .the water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat leakage and shall satisfy the reverse flow prevailing performance. The inside and outside surfaces of the faucet Shall be smooth and be free from blowholes. Fissures ,remarkable flows or injurious defects. The chromium plating on the faucet shall be class 2 Grade 1. The final coating should be done with chromium of minimum 0.1 micron tle Faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the engineer –in –charge.				
a.	12 mm CP open Bib Cock	pcs	22		-


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b.	CP angel stop cock	pcs	8		-
8	Supplying ,fitting and fixing of country made best quality towel rail/ ring /shelf Minimum 20mm in dia with C.P. holder including making hole in walls and mending Good the damages with cement mortar (1:4) etc. Supplying ,fitting and fixing of country made best quality				
a.	600 mm long C.P. towel shelf	Pcs	12		-
9	Supplying ,fitting and fixing of country made best quality toilet paper holder of standard size including making holes in walls and mending good the damages with cement mortar (1:4) etc. Supplying ,fitting and fixing of country made best quality.				
a.	Porcelain toilet paper holder (any color)	pcs	10		-
10	Supplying ,fitting and fixing of country made best quality Soap tray including making holes in walls and mending good the damages with cement mortar (1:4) etc. Supplying ,fitting and fixing of country made best quality.				
a.	Stainless steel soap tray	pcs	14		-
11	Supplying ,fitting and fixing of Push-Up type liquid soap dispenser to dispense 16 oz (.47 liters) of soap, detergent or lotion. Unit shall be fabricated of tamper resistant, chrome plated plastic, translucent white polyethylene soap container, and a corrosion resistant dispensing valve which can provide no more than 5 lbs (22.2 Newtons) pressure and unit can be reloaded by unscrewing base from bracket collar, inverting unit, and unscrewing soap container in which soap will continue to feed properly until empty with a continuously visible soap level etc. all complete approved and accepted by the Engineer-in-charge.				
a	Automatic liquid soap dispenser (local): super quality	pcs	12		-
12	Supplying ,fitting and fixing of floor grating net in traps or in drains including making holes in walls/ floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge. Of following type				
a	Approx. 50mm x 50mm stainless steel floor grating net	pcs	8		-
b	Approx. 125mm x 125mm stainless steel floor grating net	pcs	8		-
13	Supplying different inside dia best quality CPVC pressure pipe for water supply having specific gravity 1.35 – 1.45 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, with all accessories such as round grating/ domed roof grating, bends, sockets etc. approved and accepted by the Engineer- in – charge.				
a	12mm dia wall thickness 2.8 mm – 3.3mm	Rm	310		-
b	25mm dia wall thickness 3.4 mm – 4.0 mm	Rm	180		-
c	32mm dia wall thickness 3.6 mm – 4.2 mm	Rm	65		-
d	37mm dia wall thickness 3.7 mm – 4.3 mm	Rm	65		-
e	50mm dia wall thickness 3.9 mm – 4.5 mm	Rm	89		-
f	12MM 65mm dia wall thickness 5.45 mm – 7.25 mm	Rm	89		-
14	Supplying and fitting of CPVC Ball Valves shall be ball pattern of the square head type with stainless steel ball. Valves of sizes up to 50 mm in diameter shall be bronze with threaded ends conforming to ASTM B62 and for valves of sizes larger than 50 mm in diameter, the body shall be carbon steel conforming to ASTM A216. The valve body shall be of 15 bar working pressure rating. Complete with required fitting, fixture & accessories. Complete as per satisfaction of the Owner/ Consultant. Brand: National Polymer (nPoly) Origin: BANGLADESH, Brand: Astral Origin: USA.				
a	40 mm dia	pcs	12		-
b	50 mm dia	pcs	8		-
c	65 mm dia	pcs	8		-
15	Supplying and fitting of CPVC Union shall be ball pattern of the square head type with stainless steel ball. Valves of sizes up to 50 mm in diameter shall be bronze with threaded ends conforming to ASTM B62 and for valves of sizes larger than 50 mm in diameter, the body shall be carbon steel conforming to ASTM A216. The valve body shall be of 15 bar working pressure rating. Complete with required fitting, fixture & accessories. Complete as per satisfaction of the Owner/ Consultant. Brand: National Polymer (nPoly) Origin: BANGLADESH, Brand: Astral Origin: USA.				
a	40 mm dia	pcs	12		-
b	50 mm dia	pcs	8		-
c	65 mm dia	pcs	8		-
16	Supplying fitting and fixing of best quality G.I. check valve threaded joint with sealant etc. complete approved and accepted by the Engineer-in-charge.				
a	62 mm brass check valve	pcs	2		-

17	Supplying fitting and fixing of best quality G.I. flot valve threaded joint Pit valve etc. complete approved and accepted by the Engineer-in-charge.				
a	40 mm brass flot valve	pcs	2		-
18	Supplying different inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 – 1.45, wall thickness 2.5mm-3.0mm and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, of uPVC pipe with all accessories such as round grating/ domed roof grating, bends, sockets etc. approved and accepted by the Engineer- in – charge.				
a	37mm inside dia wall thickness 2.5 mm – 3.1mm	Rm	110		-
b	50mm inside dia wall thickness 2.5 mm – 3.0 mm	Rm	580		-
c	100mm inside dia wall thickness 3.4 mm – 4.0 mm	Rm	750		-
d	100mm inside dia wall thickness 3.4 mm – 4.0 mm-Rain water collection pipe	Rm	60		-
d	150mm inside dia wall thickness 4.5 mm – 5.2 mm	Rm	180		-
19	Supplying and laying uPVC pipe for under ground including fitting, fixing etc. all complete approved and accepted by the Engineer-in-charge.				
a	200mm dia with wall thickness 5.3 mm – 7.8 mm uPVC pipe	Rm	160		-
b	250mm dia with wall thickness 6.6 mm – 7.6 mm uPVC pipe	Rm	110		-
c	315mm dia with wall thickness 7.8 mm – 9.0 mm uPVC pipe	Rm	110		-
20	Construction of masonry inspection pits up to depth of 700 mm with 200 mm thick brick work in cement mortar (1:4) including 100 mm thick R.C.C top slab (1:2:4) with 1% reinforcement, man-hole cover with locking arrangement including necessary earth work, sand filling and one brick flat soling. 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with net finishing etc. all complete approved and accepted by the Engineer- in – charge				
a	Clear 450 mm x450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover	pcs	32		-
b	Clear 600 mm x 600 mm and depth 450 mm to 4000 mm, average 3500 mm for single 150 mm dia R.C.C. pipes and 4000 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover	pcs	18		-
21	Construction of septic tank of different size with walls of brick work in cement mortar (1:6) having in lining of minimum 125 mm R.C.C. cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforcement cement concrete flooring(1:2:4) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 450 mm height at top including supplying, fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C. (1:2:4) top slab, including centering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operation and incidental charges etc. all complete as per type plan approved and accepted by the Engineer- in – charge, For 200 users (Rate is including cost of reinforcement of the weight of the glaze materials. Applia				

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a	Approximate Septic Tank Size: 10'-0" x 36'-0" x 8'-0" (LxWxD)	pcs	1		-
22	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge.2000 liter capacity	pcs	2		-
23	Repairing & reconstruction of plumbing system at back side of existing four storied building.	LS	1		-
Total Amount (PART-B) including Govt.VAT					-
Add AIT					-
Total Amount (PART-B) including Govt.VAT & AIT					-

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BOQ FOR CONSTRUCTION OF PROPOSED 5 STORIED UIST BUILDING, AMBAGAN, CHATTOGRAM .

PART-C:- ELECTRICAL and Other Works

SN	Description	Unit	Qty.	Rate in Tk.	Total Amount in Taka
1.0	MDB				
	Providing & fixing 415V, 50 Hz grade following concealed or surface type Distribution Board (DB) made of 18-SWG MS sheet complete with hinged type door, built-in type locking arrangement, following capacity bus-bar with required no. of holes thereon on insulators at both ends, copper blocks for neutral and earth terminal, SP MCBs / TP MCBs/ TP MCCBs manufactured and tested in accordance with relevant IEC/VDE/NEMA/BS/JIS standard having following breaking capacity with thermal over current and instantaneous electromagnetic short ckt. release, necessary arrangement for fixing of above CBs including stove enamel/gray hammer painting of board etc.	Nos	1		
	MDB/GF				
	Incoming:				
	125 Amps TP MCCB with following accessories:	No	1		
	Busbars				
	125 amps TPN+E copper bus bars with color coded heat shrinkable insulation sleeve.	Ser	1		
	Outgoing:				
	40A TP MCCB	Nos	4		
	10A DP MCB	Nos	3		
	10A SP MCB	Nos	3		
2.0	Sub Distribution Board (SDB)				
	Providing & fixing 220V, 50 Hz grade following concealed or concealed type Sub Distribution Board (SDB) made of 16 SWG MS sheet complete with hinged type door, built-in type locking arrangement, following capacity bus-bar with required no. of holes thereon on insulators at both ends, copper blocks for neutral and earth terminal, SP MCBs manufactured and tested in accordance with relevant IEC/VDE/NEMA/BS/JIS standard having following breaking capacity with thermal over current and instantaneous electromagnetic short ckt. release, necessary arrangement for fixing of above CBs including stove enamel/gray hammer painting of board etc.	Set	3		
	Incoming:				
	40A TP MCCB with following accessories:	No	1		
	Busbars				
	40 amps TPN+E copper bus bars with color coded heat shrinkable insulation sleeve.	Set	1		
	10A DP MCB	Nos	7		
	6A DP MCB	Nos	6		
	6A SP MCB	Nos	5		
3.0	PVC insulated cable (BYA)				
	Supply, installation, testing & commissioning of cable wiring with the following PVC insulated cable (BYA) & PVC insulated green/white coloured ECC wire (BYA) through PVC conduit of reputed manufacturer complete with fixing materials, other accessories etc. including mending the damages good as required. All electrical contacts shall be of brass/copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to relevant IEC/BDS/BS/VDE standards. The work shall be carried out as per direction/approval/ acceptance of the Engineer.:				
	3C-35 Rm. TP (NYY) cable	Meter	50		-
	1C-35 Rm. Black (NYY) cable	Meter	50		-
	1C-10 Rm. Red (BYA) cable	Meter	140		-
	1C-10 Rm. Yellow (BYA) cable	Meter	140		-
	1C-10 Rm. Blue (BYA) cable	Meter	140		-
	1C-10 Rm. Black (BYA) cable	Meter	140		-
	1C-6 Rm. Red (BYA) cable	Meter	420		-
	1C-6 Rm. Black (BYA) cable	Meter	420		-
	1C-4Rm. Red (BYA) cable	Meter	420		-
	1C-4Rm. Black (BYA) cable	Meter	420		-
	1C-2.5 Rm. Red (BYA) cable	Meter	830		-
	1C-2.5 Rm. Black (BYA) cable	Meter	830		-
	1C-1.5 Rm. Red (BYA) cable	Meter	1050		-
	1C-1.5 Rm. Black (BYA) cable	Meter	1050		-

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4.0	EARTHING				
	Supply & laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV PVC insulated PVC sheathed copper conductor cables laid over MS supports in existing RCC ducts/ laid in ground /laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories.				
	1C-35 Rm. Green (BYA) cable	Meter	50		-
	1C-10 Rm. Green (BYA) cable	Meter	140		-
	1C-6Rm. Green (BYA) cable	Meter	420		-
	1C-4 Rm. Green (BYA) cable	Meter	420		-
5.0	Gang Switch:				
	Providing & fixing 250 volts. 10 amps. (minimum) concealed type following switch / switch socket manufactured and tested in accordance with relevant IEC/ VDE/NEMA/BS/JIS standards mounted on required size 18 SWG galvanized plain sheet board of 50/63 mm depth. All electrical contacts shall be of brass/copper. The work shall be carried out as per direction / approval / acceptance of the Engineer in-charge.				
	2 Gang 1 way switches.	Nos	18		-
	3 Gang 1 way switches.	Nos	12		-
	4 Gang 1 way switches.	Nos	35		-
	Fan Dimmer.	Nos	38		-
6.0	Socket:				
	Providing & fixing 250 volt, single phase, 3-pin, 5/13/15 amps. Combined switch socket outlet (concealed type) manufactured and tested in accordance with relevant IEC/ VDE/NEMA/BS/JIS standards. Mounted on required size 18 SWG galvanized plain sheet board of 50/63 mm depth. The work shall be carried out as per direction / approval / acceptance of the Engineer in-charge.				
	13A, 3 pin Switched Socket outlet	Nos	35		-
	15A, 3 pin Switched Socket outlet	Nos	12		-
7.0	Conduit Work				
	Providing & Laying of following PVC pipe from reputed manufacturers embedded in wall / column / ceiling / floor etc. with all accessories, 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover (if required), circular box, tee, bend, socket with fixing materials, etc. as required including mending the damages good. The work shall be carried out as per direction / approval / acceptance of the Engineer in charge.				
	25 mm dia PVC Pipe minimum wall thickness 1.5 mm.	Rft	750		-
	30 mm dia PVC Pipe minimum wall thickness 1.5 mm.	Rft	3200		-
8.0	Lighting Works:				
	Supply, Installation, testing & commissioning of following light fitting fixtures, bulb/lamp etc all consumable accessories and shall be as per recommendation of manufacturer and direction of Engineer in charge. Product shall be selected by owner/ consultant.				
	Wall Tube Light (WTL), 40 Watt, Length-4 feet	Nos	96		-
	Ceiling round panel light, 24 Watt	Nos	65		-
	EXHAUST FAN (EF) 600 Watt	Nos	3		-
	Flood Light, 100 Watt	Nos	3		-
	FAN HOOK (FH)	Nos	48		-
	Ceiling Fan(CF), 56" (Sweep) In-put power maximum 65 Watt	Nos	48		-
9.0	MISCELLANEOUS COST FOR LOAD SANCTION & ENERGIZATION				
	With necessary cable, accessories, energy meter etc	LS	1		-
Total Amount (PART-C) Including Govt.VAT					
Add AIT					-
Total Amount (PART-C) Including Govt.VAT & AIT					
Note: The Contractor shall not be required to submit quotation for any miscellaneous items.					

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