

UCEP BANGLADESH

PROJECT NAME: CONSTRUCTION OF PROPOSED (G+3F) 3 STORID BULIDING FOR UIST AMBAGAN, CHATTOGRAM.

LOCATION: UIST AMBAGAN, CHATTOGRAM

BOQ SUMMARY

Total Floor Area : 15000 Sft

SL	Description	Amount in Taka	Remark
1	PART-A:- CIVIL WORK	-	
2	PART-B:- ADDITIONAL CONS. WORKS	-	
3	PART-C:- PLUMBING WORK	-	
4	PART-D:- ELECTRICAL WORK	-	
5	PART-E:- LIGHTNING PROTECTION SYSTEM (LPS)	-	
6	PART-F:- FIRE DETECTION AND ALARM SYSTEM	-	
Grand Total Amount (Including Govt. VAT & AIT)		-	
In word:			


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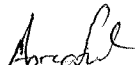

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BOQ FOR CONSTRUCTION OF PROPOSED 3 STORID BULIDING FOR UIST AMBAGAN CHATTOGRAM .

PART-A:- CIVIL WORK

SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	Earth work in excavation in all kind 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. staking, cleaning the excavated earth at a safe distance out of the cleaning the excavated earth at safe distance out of the area enclosed by the layout etc.all complete and accepted by the Engineer –in –charge. Subject to submit method statement of carrying out excavation work to the Engineer –in –charge for approval, however, engineer’s approval shall not relieve the contractor of his responsibilities and obligations under the contract.				
1	Lay out and marking for earthwork in excavation in Foundation accepted by the Engineer-in-charge.	SqM	566.47		-
2	A) Earthwork in excavation in foundation trenches up to 1.5m depth and maximum 10m lead.	CuM	135		-
	B) Added rate for each 1m additional Lead beyond 10m.	CuM	90		-
	Cleaning and disposing of excavated				


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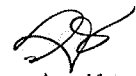

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
3	Earth from the construction site by truck Or by any other means to places within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried Earth etc. Complete and accepted by the Engineer-in-charge.	CuM	37		-
4	Earth filling in foundation trenches And plinth in 150 mm layer with earth available within 90 m of the Building site to achieve minimum Dry density of 95% with optimum Moisture content (modified- proctor test) including carrying, watering leveling, dressing and compacting to a specified percentage each layer up to finished level etc. all complete and Accepted by Engineer-in-charge.	CuM	200		-
5	Earth filling in foundation trenches 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 local carriage each layer up to finished level including cost of water and test (carried from beyond 300 m) etc. all complete and Accepted by Engineer-in-charge.	CuM	200		-
6	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	7.5		-
7	Lean/mass Concrete in floor (1:2:4) with cement, brick chips and local sand F.M. (1.2)	CuM	37		-
8	One layer Brick flat soiling in ground floor with picked jhama bricks (BDS 208) including preparation of bed and filling the	SqM	280		-


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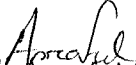
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	Interstices with local sand leveling etc. Complete and accepted by Engineer-in-charge.				
9	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum 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/ASIM, 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 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 the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering	CuM	75		-
10	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water	CuM	325		-
11	125 mm brick work with 1 st class bricks with cement and sand(F.M.1:2) Mortar (1:4) and making bond with Connected walls including necessary Scaffolding, raking out joints, cleaning and soaking of sand, curing at least for 7 days in all complete and accepted by the Engineer- in – charge (Cement :CEM-II/B-M) in ground floor.	SqM	1270		-
12	12MM Minimum 12mm thick cement sand (F.M.1.2) plaster (1:4) with fresh cement cement t both inner-and outer surfac of wall, ceiling, 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	SqM	4,150		-

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	And accepted by the Engineer-in-charge. (Cement :CEM-II/B M).				
13	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 least 1.25 and minimum Elongation after fracture and minimum Total Elongation at maximum force is 17% and 8% respectively.	Ton	92		-
14	Manufacturing, supplying, fitting MS grill works at window ,fanlight etc. as per design with outer frames having 38mm x 38mm x6 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 comers 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 excluding the cost of paint)	SqM	55		-
	Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BPS				


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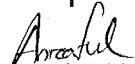
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
15	Association (AAIMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32mm,0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm.26.80 mm,0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm,0.589 kg/m), minimum 1.2 mm thick outer side (size 75.50 mm,19.90 mm,0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm,0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm,0.562 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per	SqM	55		-
16	Supplying, fitting and fixing of aluminium fixed louvers with necessary all accessories	SqM	83		-
17	250 MM thick brick work with 1 st 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 7 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		-
18	Supplying, fitting and fixing country made, GP, Glazed or unglazed homogeneous floor tiles complying BDS ISO 13006:2015 Water adsorption ≤ 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)	SqM	1600		-

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
18	Mortar (1:4) base and raking out the joint 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). 600mX600m (Glazed or unglazed) floor tiles:	SqM	1000		
19	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)	SqM	100		
20	Supplying fitting and fixing foreign made rustic or matt finished stair tiles having non-skidding offsets complying BDS ISO 13006;2015 Water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² ,irrespective of color &/or design With 20mm thick cement sand (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. (300mm X 600mm)	SqM	50		
21	Supplying fitting and fixing stain 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 With tread by 25mm long royel bolt etc. all complete and respect and accepted by the Engineer-in-charge.	SqM	80		

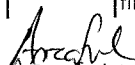

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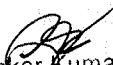

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	S.S steel works with tempered glass for balcony, stair, lobby etc. all including				
22	Interior standard acrylic emulsion painting (Matt/plastic) of approved best quality and colour delivered from authorized local agent of manufacture in a sealed 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 of drying or recoating; all complete in all floors and accepted by The Engineer-in-charge.	SqM	4000		-
23	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	SqM	1600		-

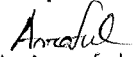

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired Finishing , elapsing specified time for drying or recoating; all complete in all Floors and accepted by the Engineer-in-Charge.				
24	FORM WORK (Wooden): centering and shuttering, including strutting propping Etc. and removal of from for:				
	1) Individual and combined footings	SqM	200		-
	2) Cornice,railing,drop wall,louver,fins etc.	SqM	150		-
	3) Sunshade, false ceiling	SqM	75		-
	4) Stair case slab and steps	SqM	30		-
25	FORM WORK (steel) : centering and shuttering, including strutting propping Etc. and removal of from for:				
	1) Pedestal, column, column capital, wall s etc	SqM	350		-
	2) Tie beam and lintel	SqM	450		-
	3) T-beam ,L-beam and rectangular beam etc.	SqM	900		-
	4) Floor and roof slab	SqM	1450		-
26	Supplying and making door and window frames (chowkat) for all floors incuding wall side grove cutting mounding 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. Up to size 0'-2.5x0-6" (finished)	CuM	2.5		-
27	Supplying fitting and fixing of 38mm Thick well matured (moisture content Should be between 12% to 16%) solid wood single leaf door shutter having Stile section 100m x 38mm,top rail section 125mm x 38mm,lock rail section	SqM	50		-

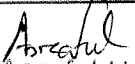

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250 mm wide plank) with 4 nos 100mm long ,3mm thick hinge, 12mm dia 250 mm long tower bolt, 12mm dia 200mm long socket bolt ,2nos 150mm long handle, hinged cheats and buffer blocks all complete and Accepted by the engineer-in-charge. (all sizes of wood are finish) Gamari (SS Fittings);				
28	Supplying, fitting and fixing of the best quality any sizes uPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 1.7 mm-2.2 mm, shutter/panel thickness 37.5 mm & weighing 17.25 kg/m2 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards and ASTM, BS/ISO/IS standards of different sizes uPVC plastic door shutter with uPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/ R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 12 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet 6 Nos., G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 6 Nos. GI clamp, 2 nos. outer GI joint clamp making necessary grooves and mending good the damages, finishing, curing, carrying the same to the site and local carriage etc. complete in all respect and accepted by the Engineer-in-charge	sqm	20		
Total Amount Taka.					-
Total Amount (PART-A) including Govt.VAT & AIT					


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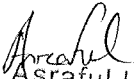

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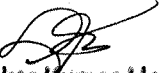
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
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BOQ FOR CONSTRUCTION OF PROPOSED 3 STORID BULIDING FOR UIST AMBAGAN TVET INSTITUTE CHATTAGRAM
PART-B:- ADDITIONAL WORKS .

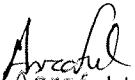
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
1	One layer (75mm Thick) Herringbone bond (HBB) brick soling in Road with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, levelling including supply of water, other charges, costs of tools and plants etc. all complete and accepted by the Engineer-in-charge.	Sqm	634.5		-
2	Brick on end edging with 1st class brick (BDS -208) including preparation of bed and filling the interstices with local sand, leveling, maintaining alignment and grid etc. all complete and accepted by the Engineer-in-charge.	meter	182		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
3	One Layer Brick flat soling in HBB (125mm Thick) Road end edging with Automatic machine-made 1st class brick (BDS 208) including preparation of bed and filling the interstices with local sand, leveling, maintaining alignment and grid etc. all complete and accepted by the Engineer-in-charge.	Sqm	550		-
4	Sand filling in Road trenches and plinth with sand having min. F.M. 1.2 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	Cum	95.18		-
5	Boundary wall in RCC Frame, 1.80m in height, level difference between FGL and EGL 0.45 m to 1.50m: Construction of RCC ($f'c = 22$ MPa, minimum $f'cr = 27$ MPa in nominal mix ratio of 1:2:4 with stone chips) frame boundary wall of height 1.8 m above FGL and depth of foundation 1.5 m from EGL, having column size 250 mm X 250 mm @ 10'-0" c/c, 250 mm X 250 mm size grade beam at FGL and one additional grade beam on EGL, 75 mm thick and 375 mm width RCC coping, 125 mm thick brick work with mortar (1:4) in between columns. 12 mm plaster (1:6) on brick surface and 6mm plaster (1:4) on RCC and providing standard acrylic emulsion paint at exterior surface, etc.	meter	160		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
6	Supplying, fitting, fixing, and installation of ordinary type - 2No's M.S. security gate of any design and shape with 50 mm x 50 mm x 6 mm M.S. angle outer frame and 02 (two) 50 mm x 50 mm x 6 mm angle placed diagonally having 22 mm dia M.S. rod placed vertically @ 115 mm c/c. and also 38 mm x 6 mm F.I bar placed horizontally, the bottom part covered with 3 mm thick M.S. plate providing locking arrangements on 3 mm thick M.S. plate providing heavy type clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including fabrication, riveting, welding as and where necessary, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of pain)	Sqm	37.174		-
				Total Amount In Taka=	-
				Total Amount (PART-B) including Govt.VAT & AIT	


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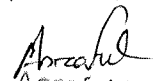

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PART-C:- PLUMBING WORK

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 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				


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a.	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. Approx. 665~ 704 X 360~ 390 mm size, minimum 31.00 kg of weight : Equivalent to CHARU :CM18/ CHARU: CM15 / Stella :Marcela / RAK :Tampa / Stella: Marcela or similar brand	pcs	18		-
2	Supplying and fitting – fixing stainless steel head/push shower for ablution including Holder etc. all complete approved and accepted by the Enginneer-in-charge.				
a	Moving type push shower	pcs	18		-
3	Supplying, fitting and fixing of country made glazed vitreous standing bowl urinal.				

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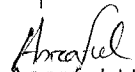
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5mm. when assembled Together and when examined from a distance of 60cm, the outer Surface 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. 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 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. 300 x 350x490 mm size minimum 18.0 kg of weight,	pcs	12		
4	Supplying, fitting and fixing of country made glazed vitreous W/H wash basin of any color including pedestal.				


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
a.	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. Approx. 550x470 mm size minimum 34.0 kg of weight,	pcs	16		-
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				


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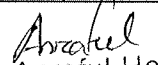
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
a.	Shall be smooth and be free from blowholes. Fissures ,remarkable flows or injurious defects. The chromium plating on the faucet shall be class 2 Grade 1. The final coating should be done with chromium of minimum 0.1 micron tle Faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the engineer –in –charge. Moving basin mixer	pcs	16		-
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. CP Single lever pillar cock	pcs	16		-
7	Supplying, fitting and fixing of best quality surface mounted or conceal stop -cock/angle stop 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				


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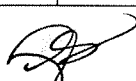

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
a.	Shall be smooth and be free from blowholes. Fissures ,remarkable flows or injurious defects. The chromium plating on the faucet shall be class 2 Grade 1. The final coating should 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. CP angel stop cock	pcs	34		-
8 a.	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 600 mm long C.P. towel shelf	Pcs	18		-
9 a.	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. Porcelain toilet paper holder (any color)	pcs	18		-
10 a.	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. Stainless steel soap tray	pcs	18		-
11 a	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 then 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. Push-Up type liquid soap local	pcs	18		-

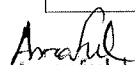

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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
12	Supplying ,fitting and fixing of floor grating net in traps or in drains including making holes in walls/ floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge. Of following type				
a	Approx. 50mm x 50mm stainless steel floor grating net	pcs	24		
b	Approx. 125mm x 125mm stainless steel floor grating net	pcs	24		-
13	Supplying different inside dia best quality CPVC pressure pipe for water supply having specific gravity 1.35 – 1.45 and				
a	12mm dia wall thickness 2.8 mm – 3.3mm	Rm	300		-
b	25mm dia wall thickness 3.4 mm – 4.0 mm	Rm	150		-
c	32mm dia wall thickness 3.6 mm – 4.2 mm	Rm	50		-
d	37mm dia wall thickness 3.7 mm – 4.3 mm	Rm	50		-
e	50mm dia wall thickness 3.9 mm – 4.5 mm	Rm	80		-
f	12MM 65mm dia wall thickness 5.45 mm – 7.25 mm	Rm	70		-
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	8		-
b	50 mm dia	pcs	2		-
c	65 mm dia	pcs	3		-
15	Supplying and fitting of CPVC Union shall be ball pattern of the square head type with stainless steel ball. Valves of sizes				
a	40 mm dia	pcs	8		-
b	50 mm dia	pcs	2		-
c	65 mm dia	pcs	3		-
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.				

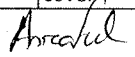

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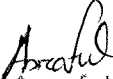
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
b	62 mm brass check valve	pcs	2		-
17	Supplying fitting and fixing of best quality G.I. flot valve threaded joint Pit valve etc. complete approved and accepted by the Engineer-in-charge.				
a	40 mm brass flot valve	pcs	2		-
18	Supplying 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	65		-
b	50mm inside dia wall thickness 2.5 mm – 3.0 mm	Rm	310		-
c	100mm inside dia wall thickness 3.4 mm – 4.0 mm	Rm	600		-
d	150mm inside dia wall thickness 4.5 mm – 5.2 mm	Rm	100		-
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	105		-
b	250mm dia with wall thickness 6.6 mm – 7.6 mm uPVC pipe	Rm	85		-
c	315mm dia with wall thickness 7.8 mm – 9.0 mm uPVC pipe	Rm	35		-
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. pips and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover	pcs	36		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
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. pips and 4000 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover	pcs	6		-
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. (Rate is including cost of reinforcement of the weight of the glaze materials. Applia				
a	Septic Tank Size: 7'-0" x 36'-0" x 8'-0" (LxWxD)	pcs	1		-
22	Repairing & reconstruction of plumbing system at back side of existing four storied building.	LS	1		
				Total Amount In Taka=	-
				Total Amount (PART-C) including Govt.VAT & AIT	


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
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BOQ FOR CONSTRUCTION OF PROPOSED 3 STORID BULIDING FOR AMBAGAN CHATTAGRAM .

PART-D:- ELECTRICAL

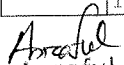
Sl.No	Description	Unit	Qty.	Rate in Tk.	Total Amount in Taka
1.0	MDB				
	Providing & fixing 415V, 50 Hz grade following concealed or surface type Distribution Board (DB) made of 18-SWG MS sheet complete with hinged type door, built-in type locking arrangement, following capacity bus-bar with required 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	3		
	10A DP MCB	Nos	2		
	10A SP MCB	Nos	2		
2.0	Sub Distribution Board (SDB)				


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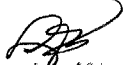

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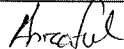
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	Providing & fixing 220V, 50 Hz grade following concealed or concealed type Sub Distribution Board (SDB) made of 16-SWG MS sheet complete with hinged type door, built-in type locking arrangement, following capacity bus-bar with required 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	6		
	6A SP MCB	No	6		
3.0					
	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 (BYA) cable	Meter	50		-
	1C-35 Rm. Black (BYA) cable	Meter	50		-
	1C-10 Rm. Red (BYA) cable	Meter	190		-
	1C-10 Rm. Yellow (BYA) cable	Meter	190		-
	1C-10 Rm. Blue (BYA) cable	Meter	190		-
	1C-10 Rm. Black (BYA) cable	Meter	190		-
	1C-6 Rm. Red (BYA) cable	Meter	500		-
	1C-6 Rm. Black (BYA) cable	Meter	500		-
	1C-4Rm. Red (BYA) cable	Meter	500		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	1C-4Rm. Black (BYA) cable	Meter	500		-
	1C-2.5 Rm. Red (BYA) cable	Meter	1000		-
	1C-2.5 Rm. Black (BYA) cable	Meter	1000		-
	1C-1.5 Rm. Red (BYA) cable	Meter	1200		-
	1C-1.5 Rm. Black (BYA) cable	Meter	1200		-
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	190		
	1C-6Rm. Green (BYA) cable	Meter	500		-
	1C-4 Rm. Green (BYA) cable	Meter	500		-
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	25		-
	4 Gang 1 way switches.	Nos	50		-
	Fan Dimmer.	Nos	65		-
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	25		-
	15A, 3 pin Switched Socket outlet	Nos	16		-
7.0	Conduit Work				


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	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	5000		-
	30 mm dia PVC Pipe minimum wall thickness 1.5 mm.	Rft	2500		-
8.0					
	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)	Nos	75		-
	Energy Saving Wall Light(ESWL)	Nos	90		-
	EXHAUST FAN (EF) 800Watt	Nos	10		-
	FAN HOOK (FH)	Nos	65		-
	Ceiling Fan(CF)	Nos	65		-
9.0	ALLOCATION COST FOR LOAD SANCTION & CONNECTION 2.0 mm dia accessories, energy meter	LS	1		-
10.0	Capacity: 17000-18000 BTU Wall mounted (Inverter Type) Brand: Any brand manufactured or assembled in JAPAN/MALAYSIA/SOUTH KOREA/TAIWAN/THAILAND/USA/EU countries	Nos	5		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
11.0	SOLAR SYSTEM (OFF-GRID WITH 4 HRS BACKUP) 15KWp Supply, installation, testing & commissioning of Polycrystalline Solar Panel (min. 545Wp per module), IEC certified MPPT Solar Charge Controller (rated for 15 kWp system, 96V or as per design) Off-grid Solar Inverter (96V/120V, 15 kW capacity), Brand: SAJ/SOLIS/HUAWEI/ GROWATT or equivalent LiFePO₄ Battery Bank, 48V system, 600Ah (28.8 kWh) for 4 hr backup @15 kW Battery rack, interconnecting cable & terminal lugs, Brand: Growatt or equivalent Solar Mounting Structure (Aluminium/GI for RCC roof, wind load 150 km/h) DC Cable (Cu, 6 sqmm/10 sqmm) with proper conduit, around 200 Meter AC Cable from Inverter to LT Panel (Cu, 4C x 16 sqmm), around 100 Meter Earthing System - Copper plate earthing with chemical rod and earth chamber Solar AC & DC Combiner Box with surge protection Civil foundation for structure and battery housing Installation, Testing, and Commissioning (ITC)	Set	1		-
				Total Amount In Taka=	-
Total Amount (PART-D) including Govt.VAT & AIT					


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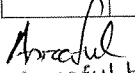

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BOQ FOR CONSTRUCTION OF PROPOSED 3 STORID BULIDING FOR UIST AMBAGAN CHATTAGRAM .
PART-E:- LIGHTNING PROTECTION SYSTEM (LPS)

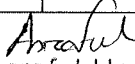
SN	Lightning Arrester Material	Specification	Purpose	Unit	Quantity	Unit rate (Excluding VAT)	Total
1	Air Terminal (Aluminium-I)	12.7 mm Ø, 2' length	For air arrester	pcs	23		-
2	Air Terminal base (Aluminium-I)	Size : 75 mm (L)X 75 mm (W) Thickness: 4.5 mm to 5 mm (Approx.) With Brass Nut	For supporting air terminal	pcs	23		-
4	Aluminum base level nut	1.5 inch (8mm innder Dia) MS Type	For aligning base plate	pcs	92		-
6	Stranded Cable (Aluminium-I) Brand: SQ	50 rm bare stranded Aluminium cable	Mesh & Down Conductor	feet	900		-
7	GI Pipe for Earth system	1.5 inch dia & 10 feet long		PCS	4		-
8	Shaddle (Aluminium I) Class I	For 50 rm Aluminium cable Thicknes: 1.5mm to 2mm	For Supporting Mash Cable	pcs	300		-
9	SS screw	1.5 inch Electroplating	For Aluminium Saddle on Shed	pcs	600		-
10	Joint Clamp (Aluminum-I) Class 1	50 rm H Type	For Jointing Aluminium cable	pcs	10		-
11	Alluminium C Clamp	50rm Thickness: 1.5 mm to 2 mm (Approx.)	For Jointing Aluminium Cable	pcs	10		-
12	Bimetallic	12 mm Thickness with Brass Nut	For Joint aluminum & Copper	pcs	4		-
13	Cable Lugs (Copper-I)	30 rm Copper electroplating	For Bimettalic joint at copper end	pcs	10		-
14	Cable Lugs (Aluminium-I)	50 rm Aluminium	For Bimettalic joint at Aluminium end	pcs	10		-
15	Stranded Cable (Copper-I)	30 rm bare stranded Copper cable	For Down Conductor	feet	80		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)		
16	Shaddle (Copper-I)	For 30 rm Copper cable Thicknes: 0.8 mm to 1 mm	For Supporting Mash Cable	pcs	30		-
17	Screw	1.5 inch	For Copper Saddle on Down conductor	pcs	60		-
18	Royal Plug	10 Number	For supporting ss screw	pcs	60		-
19	U Clamp	12.7 mm	For periodical inspection	pcs	4		-
20	Earth Pit civil part	1.5' X 1.5' X 1.5'	For earth boring	pcs	4		-
21	Earth Boring	60 feet	For low earth resistance	pcs	4		-
22	Ground Rod Brand: Coppertech	12.7mm X 60 ft Continuous	For Boring	feet	240		-
23	Bonding Sheet Al	Size: 8' (L) x 1" (W) Thickness: 1 mm	For Bonding Down conductor	feet	50		-
24	PVC Plate	Size: 8" (L) x 5" (W)	Pit Marking	pcs	4		-
25	Test Link Box	Size: 10" X 8" X 4" without Busbbar	For periodical inspection	pcs	4		-
27	Arrestor Stand	2" dia, Length=7' Thic=2mm	Plate Size:8"X8"Thic=6mm 4"x4"Thic=6m	pcs	5		-
28	Royal Bolt	10 mm Dia, 3" Length (China)	For Arrestor Stand	pcs	16		-
29	Arrestor Adjust Nut	6 mm Dia 1.5" Length MS Type	For Air Terminal base (Aluminium-I)	pcs	20		-
29	Surge Protection Device (SPD)	Protection mode - L-N,L- PE,N-PE Pole - 3P + N SPD Type Type 1 + 2 combined Uc - 385V AC (3-Phase) In - ≥20 KA (Nominal) Imax - ≥ 60KA (Max discharge current) Up - ≤ 1.5 - 2.0 KV Preferable brand and model - Schneider A9L16693 (iPRD65r 3P+N)	Protect sensitive electrical and electronic devices—such as laptops, monitors, TVs, refrigerators, air conditioners, and others—from surge voltages caused by lightning and other related voltage spikes.	Pcs	1		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)		
30	Installation, Testing and painting			Job	1		-
Total Amount :							-
Total Amount (PART-E) including Govt.VAT & AIT							-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
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BOQ FOR CONSTRUCTION OF PROPOSED 3 STORID BULIDING FOR UIST AMBAGAN CHATTAGRAM .

PART-F:- Fire Detection and Alarm System

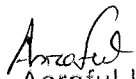
Sl.No	Description	Unit	Qty.	Rate in Tk.	Total Amount in Taka
1.0	Addressable Type Fire Alarm Control Panel (FACP) G-8 Zone	Nos	1		-
	Supply & installation o addressable type fire alarm control panel complete with following basic options. Master controller assembly / CPU shall be suitable with port to add voice alarm system/ fire fighter telephone system / Printer / remote annunciator etc. FACP must be comply with intemationally accepted standard. Addressable fire alarm control panel shall be complete. non-coded.addressable, microprocessor based with the ability to communicating with initiating devices, notification appliances, and monitoring and control deviccs. The F'ACP shall be provided with suficient battery capacity to operate the entire system upon loss of normal AC power in a normal supervisory mode for a period of 24 hours with 5 minutes of alarm operation at the end of this period the system shall automatically transfer to battery standby upon power failure. All battery charging and recharging operations shall be automatic.				
2.00	Smoke Detector (Optical Type)	Nos	27		-


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	Supply & installation of addressable type photoelectric / Optical smoke The detector shall be self-restoring: detectors do not require resetting or readjustment after actuation to restore normal operation. No special tools shall be required to remove head once it has been connected with base. Removal of the detector head shall cause a trouble signal at the control unit. Except false ceiling, detector base shall be fixed with gang box in any other ceiling as per manufacturer instruction. In alarm condition, the sensor LED shall be on steady or have Bicolor (green/red) status LED. Detector shall have listed Spacing Capacity of 30 Feet. Detector shall have at least Two level of dirty detector warning.				
3.00		Nos	5		-
	Supply & installation of addressable type heat detector with the combination of fixed-temperature and rate-of-rise heat detection. The detector shall be self-restoring: detectors do not require resetting or readjustment after actuation to restore normal operation. Except false ceiling, detector base shall be fixed with gang box in any other ceiling as per manufacturer instruction. Detector shall have listed Spacing Capacity of 50 Feet. The heat sensors of fixed temperature sensing shall be independent of rate-of-rise sensing and programmable to operate at 130°F or 140°F (Minimum). Sensor rate-of-rise temperature detection shall be selectable at the FACP for 15° F per minute (Minimum).				


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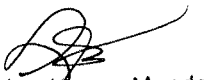

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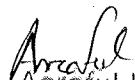
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
4.00	Manual Call Point (MCP / Pull Station)	Nos	7		-
	Supply and installation of conventional type manual call point like break glass switch or single action pull station complete with back box and all other accessories and consumables. Power supply shall be 24V DC. It shall be UL listed / FM approved.				
5.00	Audio-Visual Alarm (Horn-Strobe Combo Unit)	Nos	8		-
	Supply and installation of conventional type horn with strobe for notification purpose complete with back box, suitable to produce electronic sound level of 87 to 95 dBA @ 3 meter and illumination shall be not less than 75 candela red color shall be UL listed / FM approved. Power supply shall be 24VDC.				
6.00	Visual Alarm (Strobe-only)	Nos	2		-
	Supply and installation of conventional type fire alarm bell of 150mm dia. red color. shall be UL listed / FM approved. Power supply shall be 24VDC. Sound level shall be not less than 92 dBA @ 3 meter. Color of the bell shall be red.				
7.0	Exit Sign (LED Illuminated)	Nos	18		-
	Supply and installation of "Exit light" complete with rechargeable battery and charge light and other necessary accessories suitable for AC / DC power supply (220V single phase) as per NFPA 101				
8.0	Emergency Light (Rechargeable LED Type)	Nos	18		-
	Supply and installation of "Evacuation light" complete with rechargeable battery and charge light and other necessary accessories suitable for AC / DC power supply (220V single phase) as per NFPA 101				
9.0	Fire Extinguisher (ABC Type, 6kg)	Nos	15		-


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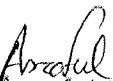
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
	Supply & fixing of the following capacities multi purpose ABC dry chemical powder stored pressure type with manometer system fire extinguisher suitable for repeated use complete with wall bracket Nitrogen (N2) cartridge. easy refilling system etc as per sample accepted & approved by the Engineer in Charge. Mono Ammonium Phosphate (minimum 40%) based ABC dry chemical agent & has a moisture proof. anti-caking properties Working pressure : 12 BAR minimum & Test pressure : 25 BAR minimum Proper fire rating (as per NFPA IO/BS/EN) according to the capacity of the extinguisher. Manufacturer's certificate shall have to be submitted if needed. also sample of the dry chemical powder will be tested by the proper authority in Bangladesh if needed.				


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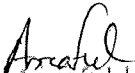
SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
10.0	CO ₂ Extinguisher (5kg)	Nos	1		-
	Supply & fixing of the following capacities multi purpose ABC dry chemical powder stored pressure type with manometer system fire extinguisher suitable for repeated use complete with wall bracket Nitrogen (N2) cartridge. easy refilling system etc as per sample accepted & approved by the Engineer in Charge. Mono Ammonium Phosphate (minimum 40%) based ABC dry chemical agent & has a moisture proof. anti-caking properties Working pressure : 12 BAR minimum & Test pressure : 25 BAR minimum' Proper fire rating (as per NFPA IO/BS/EN) according to the capacity of the extinguisher. Manufacturer's certificate shall have to be submitted if needed. also sample of the dry chemical powder will be tested by the proper authority in Bangladesh if needed.				
11.0	Fire Blanket (Kitchen Use)	Nos	1		-
	Supply and fixing of fire proof emergency Fire Blanket made of fire glass cloth . Dimension of the blanket should be minimum 6' x 6' . working tempcraiture is minimum 550 o C				


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SL.	Description of Items	Unit	Quantity	Rate (Tk.)	Total amount (Tk.)
12.0	Location Plan (Framed Poster)	Nos	6		-
13.0	Conduits (Fire rated, Red PVC)	Feet	500		-
	Surface conduit wiring with the following FPLR/ FPI,P/ FPL type UL listed / FM Approved / LPCB Approved cable. PVC Insulation for each core shall be FR (Fire Rated) & Drain wire, shield (Aluminum Foil tape/ PET tape) shall meet the minimum requirement as per NEC (National Electric Code) or NFPA 70 or BS. Jacket shall be Fire Rated. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) . The work shall be carried out as per direction & approval of the Engineer in charge.				
Total Amount In Taka=					
Total Amount (PART-F) Including Govt.VAT & AIT					


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