

UCEP BANGLADESH			
Bill of Quantities (BOQ) for Renovation, Repair and Maintenance of UCEP Mohsin Technical School at Regional Office Premises and Other related facilities.			
UCEP Mohsin Khulna Technical School			
Junction Road, Boikali, Boyra, GPO-9000, Khulna.			
Summary of Bill of Quantities (BoQ)			
Sl No.	Description of Items	Amount in Taka	Remarks
1	(Part-1)- Civil Works - Repair and Maintenance of Two-Storey RCC Frame Technical School Building. (Technical School Zone Only)		Revised as per Khulna Regional Office requirements.
2	(Part-2)- Civil Works - Repair and Maintenance of Canteen.		
3	(Part-3)- Electrical maintenance works		
4	(Part 4)-Internal HBB Road Raising, Improvement of campus Drainage System and Other Related Work		
	Grand Total Amount (In/C VAT)		
	Govt. AIT		
	Grand-Total Amount (In/C Govt. VAT & AIT)		
*NOTE: 1.Contractors should not be quoted for Miscellaneous items. 2.Contractors are requested to provide rate quotes for each item inclusive of VAT as per Govt. rules. 3.Items quantity and number of items subject to change based on physical site conditions (as per site need base). 4.The contractor shall perform all standard conventional material tests as directed by the engineer in charge. 5.Contractor bill will be paid as per physical field measurement by MB entry.			



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UCEP BANGLADESH						
Bill of Quantities (BOQ) for Renovation, Repair, and Maintenance of Technical School, Regional Office, and other related Facilities.						
UCEP Mohsin Khulna Technical School						
Junction Road, Bokali, Boyra, GPO-9000, Khulna.						
(Part-1)- Civil Works - Repair and Maintenance of Two-Storey RCC Frame Technical School Building. (Technical School Zone Only)						
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)	
1	Dismantling of R.C.C. roof slab of electric workshop rooftop (specific place -GM-c ass nine), Parapet Wall and removal of debris to a safe distance all complete as per direction of the E-I-C.	475.00	cft		-	
2	Patent stone (Roof top): 38 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of F.M 1.2) and 12 mm down well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	1,875.00	sft		-	
3	RCC WORKS: 1:2:4 (measured on gross concrete section): Reinforced cement concrete works for roof slab & Parapet Wall, Lintel (RAC) 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_{cd} = 19 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type - I, best quality 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. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc but including the cost of wooden shuttering & centering).	565.00	cft		-	
4	FORMWORK (Wooden): Centering and shuttering, including strutting, propping etc. The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary etc. and removal of form for: Floor & roof slab, lintel, Sunshade and other structural component etc. Roof Floor	750.00	sft		-	
5	Reinforcement for slab and parapet wall, Lintel (RAC): Supplying, fabrication and fixing to detail as per design : Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked including straightening and cleaning rust, if any, bending and binding in position with supply of G.I wires, conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard) according to Bangladesh standard, with minimum yield strength, f_y (ReH) = 400 MPa but f_y not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ACI 318, the ratio of ultimate tensile strength f_u to 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 : up to ground floor ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI)	2,275.00	kg		-	

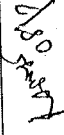

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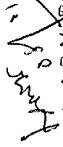
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
6	PVC board false ceiling: Supplying, fitting and fixing of best quality PVC board false ceiling (Drop/Plain) of size 600 mm x 600 mm of approved design, minimum PVC content of 35%, framing by aluminium powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement also including cost of all materials, electricity, accessories, scaffolding, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. (Use only-Electrical work shop for technical-size-2'x2' & no of PVC board-10 nos, ICT for technical-size-2'x2' & no of PVC board-10 nos, garments trade-15nos, Kitchen-250) & other location as per Site Need Base.	1,140.00	sft		
7	12 mm thick Garjan Ply board ceiling: Supplying, fitting & fixing of 12 mm thick BT ply board/garjan ply board ceiling (Drop/ Plain) screwed up with best quality and well seasoned 50 mm x 38 mm Garjan Wooden Frame at 600 mm x 600 mm in grid suspended from ceiling/roof or beam by 12 SWG double ply G.I wire fixed to the ceiling by M.S clumps, screws, hooks, nails etc. maintaining straight lines and desired finished level at bottom face including vertical strut as required, cutting holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, accessories, installation, electricity charge, scaffolding, labour for installation with and necessary hardware all complete, as per drawing design and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp proof. (Rate is excluding cost of polish/ paint etc. of any type). 12 mm thick Garjan Ply board ceiling (Use only-Electrical work shop for -size-2'x3.5' & no of board-6 nos, Machine Shop Practice for technical-size-2'x3.5' & no of board-60 nos, RAC for technical-size-2'x2' & no of board-15 nos, Auto for technical-size-2'x2' & no of board-6 nos) & other location as per Site Need Base.	546.00	sft		
8	Supplying and making door and window frames (Chowkat-3.5 x7' door-2 nos) for all floors including wall side grove 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) use-Electrical workshop/front of toilet-1 & voc class nine, GF-1)	3.68	cft		
9	Supplying, fitting and fixing of 38 mm thick well matured seasoned (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 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished) Kathal (SS Fittings)	2.74	sft		
10	Standard French polishing to Wooden board surface by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge.	98.00	sft		


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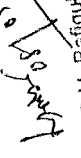
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
11	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling 2 coat (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed 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. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge. (Use only-GM class nine for Technical School -670 sft, Auto mechanics workshop-957 sft, Motor cycle work shop-736 sft, RAC work shop-3974 sft, GM work shop for technical school-557 sft, welding workshop-3837sft, IT workshop-1021, electric workshop-2477, Machineworkshop(MSP)-1922), RAC & Auto Ver, canteen new wall & other location as per Site Need Base.	22,435.00	sft		
12	Stripping of unserviceable plaster, NCF including racking out joints cleaning etc. all complete as per direction of the E-I-C. (Use only-Two-Storey RCC Frame Technical School Building-950 sft, Auto mechanics workshop-612 sft, Motor cycle work shop-462 sft, RAC work shop-1413 sft, GM work shop for technical school-145 sft, IT cen) & other location as per Site Need Base.	6,335.00	sft		
13	Plaster (12mm) Minimum 12 mm thick cement sand (F.M. 1:2) plaster (1:4) with fresh cement to both inner and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. Cement: CEM-II/B-M (Use only-Two-Storey RCC Frame Technical School Building-1790 sft, Auto mechanics workshop-612 sft, Motor cycle work shop-462 sft, RAC work shop-1413 sft, GM work shop for technical school-145 sft, IT Center-404 & canteen)	4,876.00	sft		
14	Mass concrete (1:2:4) in floor of RAC building with NCF/NCF must be red colour). 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 tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M) Use only-RAC Work shop-514 sft and Motor cycle work shop-149cft	677.00	cft		
15	Brick works of width one brick or one and a half brick length of first class bricks with cement sand (F.M. 1:2) mortar (1:6) in superstructure including racking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (Use only-Kitchen room-10cft & above the intel of RAC work shop -53.5, IT Center-91)	167.00	cft		


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
16	Renewing of standard synthetic enamel paint to door-windows frame and shutter: 1 coats	5,420.00	sft		-
17	Repairing of steel grill/ window frame and shutter/ stair railing, veranda grill, rolling shutter excluding the cost of steel materials and others materials.	621.00	sft		
18	Premium synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in two coats over single coat anti corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge. use on grill, coll gate and ver railing.	3,463.00	sft		-
19	Miscellaneous work; any type of work, Additional materials, labor and other accessories if necessary during maintenance work. (Site need base)	1.00	L.S		
Sub-Total Amount (Part-1)-(In/c Govt. VAT)					


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Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
(Part-2)- Civil Works - Repair and Maintenance of Canteen.					
	Homogeneous floor tiles: GP (mirror polished) 400 mm x 400 mm floor tiles-(Kitchen Counter Slab)				
1	Supplying, fitting and fixing GP (Homogeneous) glazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) ≥ 27 N/mm ² , irrespective of colour or design (country made) on 20mm thick cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C-GP	50.00	sft		-
2	Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32 mm, 0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm, 0.705 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/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 mohlar, 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 drawing and accepted by the Engineer-in-charge. Anodized to any colour	56.00	sft		-
3	Supplying, fitting and fixing in Aluminium door frames, windows, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge use-5 mm thick ambushed glass.	45.00	sft		-
4	Miscellaneous work; any type of required work, Additional materials, labor and other accessories if necessary during maintenance work. (Site need base)	1.00	L.S		-
Sub-Total Amount (Part-2)-(In/c Govt. VAT)					-


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UCEP Mohsin Khulna TVET & Khulna Region

BOQ for Electrical Maintenance Works of Technical School, Regional Office, and other Facilities.

(Part-3)-Electrical Maintenance Works

Trade: Electrical Lab Both side

Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
1	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (strandec) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	20.00	Each		-
2	CEILING FAN (1442 mm, 156") Sweep: Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.	10.00	Each		-
3	Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	20.00	Each		-
4	Gang Type Fan Regulator. Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.	15.00	Each		-
5	2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.	20.00	Each		-
6	4 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.	40.00	Each		-
7	Supply & Install of Electrical Distribution/ MCB BOX - 2 TO 3 WAY, Brand: Super Star or equivalent. all complete and accepted by the Engineer-in-charge.	15.00	Each		-

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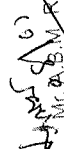
8	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA / INDIATURKEY / VIETNAM. Brand: Super Star or equivalent.	35.00	Each		
9	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Azz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (200m) with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width. Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	200.00	Meter		
10		1.00	LS		
Sub-Total Amount (Electrical Lab)-(Inlc Govt. VAT)					
Trade: Machine Shop Practice Lab					
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
11	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire. earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-3 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	16.00	Each		
12	CEILING FAN (1442 mm, 156") Sweep): Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia. 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.	10.00	Pcs		
13	Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA / INDIATURKEY / VIETNAM. Brand: Super Star or equivalent.	8.00	Each		
14	Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.	15.00	Each		
15	2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA / INDIATURKEY / VIETNAM. Brand: RFL or equivalent.	20.00	Each		

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16	4 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.	40.00	Each		
17	Supply & Install of Electrical Distribution/ MCB BOX – 2 TO 3 WAY, Brand: Super Star or equivalent.all complete and accepted by the Engineer-in-charge.	15.00	Each		
18	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIATURKEY / VIETNAM. Brand: Super Star or equivalent.	35.00	Each		
19	CIRCUIT BREAKER (DPMCB: 16/20 amps-6KA) Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 250/500volt grade following double pole DPMCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of DPMCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge. Brand: Super Star or equivalent.	5.00	Each		
20	TPMCCB: 63 amps-10KA) Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 500 volt grade following triple pole TPMCCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge.	5.00	Each		
21	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL,Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (200m) with 1.5 Sq.mm (BYA) ECC wire through PVC Pipes/Channel of 25 mm Width.	200.00	Meter		
22	Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS		
Sub-Total Amount (Machine Shop Lab)-(In/c Govt. VAT)					


 Nikhil Chandra Mojumder
 Deputy Manager
 Infra. Development
 UCEP Bangladesh


 Mr. B.M. Rafiqul Islam Khan
 Advisor
 Infrastructure Department
 UCEP Bangladesh

Decent Employment Room					
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
23	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (standed) flexible FR wire. earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	1.00	Each	-	-
24	CEILING FAN (1442 mm. (56")) Sweep: Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia. 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required.(BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.	1.00	Pcs	-	-
25	Gang Switch: 4 Gang Switch Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	2.00	Each	-	-
26	Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.	2.00	Each	-	-
27	2 Gang Base Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.	5.00	Each	-	-
28	4 Gang Base Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.	40.00	Each	-	-
29	Supply and fixing of Ceiling Rose , Premium Quality, International Standards, Made of Polycarbonate Virgin Resin, Fire Retardant, Durable, Efficient, Elegant Design, Generator Friendly, Certifications: BDS IEC 60669-1:18, All screws are made of copper.all complete and accepted by the Engineer-in-charge.Brand: Super Star or equivalent.	1.00	Each	-	-
30	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	5.00	Each	-	-
31	Miscellaneous work; any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS	-	-

RM Office		Description of Items			Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
Item No.								
32		TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.			2.00	Each		
33		CEILING FAN (1442 mm. (56")) Sweep: Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.1" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.			1.00	Pcs		
34		Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant: bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.			2.00	Each		
35		Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.			2.00	Each		
36		2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant: bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.			2.00	Each		
37		4 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant: bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.			40.00	Each		
38		Supply and fixing of Ceiling Rose , Premium Quality, International Standards, Made of Polycarbonate Virgin Resin, Fire Retardant, Durable, Efficient, Elegant Design, Generator Friendly, Certifications: BDS IEC 60659-1:18, All screws are made of copper. All complete and accepted by the Engineer-in-charge. Brand: Super Star or equivalent.			1.00	Each		
39		SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.			4.00	Each		
40		Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)			1.00	LS		
Sub-Total Amount (RM Office)-(Inc Govt. VAT)								

Trade: Garments Lab Both Side					
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
41	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	20.00	Each	-	-
42	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.	10.00	Each	-	-
43	Supply and fixing of 3 Pin Flat Plug , Premium Quality, International Standards, Made of Polycarbonate Virgin Resin, Fire Retardant, Durable, Efficient, Elegant Design, Generator Friendly, Certifications: BDS IEC 30669-1:22 All screws are made of copper all complete and accepted by the Engineer-in-charge. Brand: Super Star or equivalent.	1.00	Each	-	-
44	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/ RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (100m) with 1.5 Sq.mm (3YA) ECC wire through PVC Pipe/Channel of 25 mm Width.	100.00	Meter	-	-
45	Miscellaneous work; any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS	-	-
Sub-Total Amount (Garments Lab Both Side) - (In/c Govt. VAT)					
Trade: Motor cycle & Auto Macheinices Lab					
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
46	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	10.00	Each	-	-


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 UCEP Bangladesh

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47	CEILING FAN (1442 mm, 56") Sweep: Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper mace super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.	6.00	Each		
48	Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	10.00	Each		
49	Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.	6.00	Each		
50	2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.	5.00	Each		
51	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1C-2x2.5 sq. mm (BYA) cable with 2.5 sqmm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	150.00	Meter		
52	4 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.	12.00	Each		
53	Supply and fixing of Ceiling Rose , Premium Quality, International Standards, Made of Polycarbonate Virgin Resin, Fire Retardant, Durable, Efficient, Elegant Design, Generator Friendly, Certifications: BDS IEC 60669-1:18, All screws are made of copper. all complete and accepted by the Engineer-in-charge. Brand: Super Star or equivalent.	10.00	Each		
54	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	10.00	Each		
55	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (300m) with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	300.00	Meter		
56	Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS		
		Sub-Total Amount (Motor cycle & Auto Machines Lab) - (In/c Govt. VAT)			-


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 Advisor
 Infrastructure Department
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Trade: RAC Lab		Description of Items		Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
Item No.							
57		TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee. holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty) Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.		16.00	Each		
58		CEILING FAN (1442 mm. (56")) Sweep): Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75"-1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.		12.00	Each		
59		Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.		12.00	Each		
60		Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.		6.00	Each		
61		2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.		10.00	Each		
62		ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL/Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/ RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1C-2x2.5 sq. mm (BYA) cable with 2.5 sqmm (ByA) ECC wire through PVC Pipe/Channel of 25 mm Width.		200.00	Meter		
63		4 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.		12.00	Each		
64		Supply and fixing of Ceiling Rose , Premium Quality, International Standards, Made of Polycarbonate Virgin Resin, Fire Retardant, Durable, Efficient, Elegant Design, Generator Friendly, Certifications: BDS IEC 60669-1:18. All screws are made of copper, all complete and accepted by the Engineer-in-charge. Brand: Super Star or equivalent.		10.00	Each		

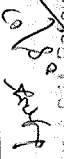
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65	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	20.00	Each		
66	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL,Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (300m) with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	300.00	Meter		
67	Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS		
Trade: IT Lab		Sub-Total Amount (RAC Lab)-(In/c Govt. VAT)			
Item No.	Description of Items	Quantity	Unit	Unit Rate (Tk.)	Amount (Tk.)
68	TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire. earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPIL-43001 Cosmo cat no-BD TGL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.	6.00	Each		
69	CEILING FAN (1442 mm. (56") Sweep): Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 uf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 813 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter.Input power : Maximum 70 watt. Brand: BRB or equivalent.	2.00	Each		
70	Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	3.00	Each		
71	Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.	5.00	Each		


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72	1 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.	30.00	Each		
73	2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds iec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.	10.00	Each		
74	Supply & Install of Electrical Distribution/ MCB BOX – 6 TO 9 WAY, Brand: Super Star or equivalent all complete and accepted by the Engineer-in-charge.	1.00	Each		
75	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	35.00	Each		
76	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (200m) with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm W dth.	300.00	Meter		
77	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.0 Sq.mm (BYA) Cable (200m) with 1.0 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm W dth.	100.00	Meter		
78	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/ RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1C-2x2.5 sq. mm (BYA) cable with 2.5 sqmm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	200.00	Meter		
79	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/ RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1C-2x4.0 sq. mm (BYA) cable with 4.0 sqmm (BYA) ECC wire through PVC Pipe/Channel of 25 mm Width.	200.00	Meter		
80	Supply and fixing of 6" Industrial Channel, all complete and accepted by the Engineer-in-charge.	6.00	pcs		
81	Supply and fixing of Clamp, all complete and accepted by the Engineer-in-charge.	11.00	pcs		
82	Supply and fixing of Connecting Rod, all complete and accepted by the Engineer-in-charge.	1.00	pcs		
83	Miscellaneous work; any type of work. Additional materials, labor and other accessories if necessary during construction. (Site need base)	1.00	LS		
Sub-Total Amount (IT Lab) (In/c Govt. VAT)					



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Trade: Welding Lab		Description of Items					Amount (Tk.)	
Item No.		Description of Items					Unit Rate (Tk.)	Amount (Tk.)
84		TUBE LIGHT FITTINGS (LED): Providing & fixing the 4' x 40 watt tube light fitting with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2x0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp) The Fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 20W LED T-8 tube Material : MS Sheet L-1235mm B-50mm P-40mm Gloria cat no-GTF (LED) 751x1x20W Energy + EPII-43001 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS-335x1x40W CRESCENT CITLS-7x1x40 Watt or equivalent.					14.00 Each	-
85		CEILING FAN (1442 mm, 56") Sweep: Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75"-1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required. (BRB/Energy pac/Client Requirement) Rated voltage : 230 volts Rated frequency : 50 Hz Rated speed : 300 rpm ± 5 % Service value : Minimum 3.5 m3 / min / watt Temperature rise : Maximum 55°C Class of Insulation : Minimum E Noise level : Maximum 60 dB at a distance of 1 meter. Input power : Maximum 70 watt. Brand: BRB or equivalent.					4.00 Each	-
86		Gang Switch: 4 Gang Switch Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.					15.00 Each	-
87		Gang Type Fan Regulator: Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM. Brand: Super Star or equivalent.					1.00 Each	-
88		2 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: RFL or equivalent.					20.00 Each	-
89		4 Gang Base Providing & fixing 250 volts, 5 / 6 amps (minimum) concealed type following switch/ switch socket manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant bds tec standards mounted on required size 18 SWG galvanized plain sheet/ PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.					4.00 Each	-
90		Supply & Install of Electrical Distribution/ MCB BOX – 2 TO 3 WAY, Brand: Super Star or equivalent.all complete and accepted by the Engineer-in-charge.					15.00 Each	-
91		CIRCUIT BREAKER (DPMCB: 16/20 amps-6KA) Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 250/500volt grade following double pole DPMCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of DPMCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge. Brand: Super Star or equivalent.					12.00 Each	-

92	TPMCCB: 63 amps-10KA) Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 500 vclt grade following triple pole TPMCCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge.	5.00	Each		
93	SOCKET OUTLET: Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow). 13 / 15 / 16 / 20 Amps. ASSEMBLED AND MADE IN BANGLADESH / CHINA/ INDIA/TURKEY / VIETNAM. Brand: Super Star or equivalent.	35.00	Each		
94	LED BULBS & TUBE LAMPS: Supply & fixing of the following LED bulbs & tube lamps manufacturers by OSRAM / SIGNIFY (PHILIPS) ENERGYSTAR / CBE / CORONA / HAVELLS / GE / EDISON / EASTREN / PRODIP / MIEP / METRO / MEGAMAN / WALTON / HARMONICS / SUPERSTER / TRANSTEC / ENERGY+ / GLORIA / ADEX / PASHA / SQ / COSMO or equivalent brand accepted / approved by the Engineer-in-charge (with 2 years warranty). 15 Watt LED bulb/Lamp.Brand: Super Star or equivalent.	15.00	Each		
95	EXHAUST FAN: Providing and fixing of following axial flow A.C capacitor type wall mounted exhaust fan complete with blade, steel frame standard wall louver shutter, PVC insulated connecting wire etc. complete as required including cutting wall and mending good the damages as per direction of the Engineer. 12" Exhaust fan plastic body (foreign made accepted / approved by the Engineer).Brand: Super Star or equivalent.	2.00	Each		
96	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.5 Sq.mm (BYA) Cable (400m) with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm W.dth.	400.00	Meter		
97	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1c-2x1.0 Sq.mm (BYA) Cable (200m) with 1.0 Sq.mm (BYA) ECC wire through PVC Pipe/Channel of 25 mm W.dth.	300.00	Meter		
98	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/ RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1C-2x2.5 sq. mm (BYA) cable with 2.5 sqmm (ByA) ECC wire through PVC Pipe/Channel of 25 mm Width.	300.00	Meter		
99	ELECTRICAL WIRING BYA Cable: Surface channel wiring/concealed Conduit wiring/Circuit Wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit/Channel (RFL, Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/ RR Imperial or equivalent according to the Specification & direction of the Engineer-in-charge. BRB-BYA-FR 1C-2x4.0 sq. mm (BYA) cable with 4.0 sqmm (ByA) ECC wire through PVC Pipe/Channel of 25 mm Width.	300.00	Meter		
100	Miscellaneous work: any type of work, Additional materials, labor and other accessories if necessary during construction. (Site base)	1.00	LS		
Sub-Total Amount (Welding Lab)-(In/c Govt. VAT)					
Total Amount (Part-03)-Electrical Maintenance Works)-(In/c Govt. VAT)					


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Bill of Quantities (BOQ) for Renovation, Repair, and Maintenance of Technical School, Regional Office and other related facilities.

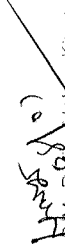
UCEP Mohsin Khulna Technical School

Junction Road, Bolkali, Boyra, GPO-9000, Khulna.

(Part 4)-Internal HBB Road Raising, Improvement of campus Drainage System and Other Work (Break-down as per site need)					
(Part 4.1)-Demolition of old roads and leveling of the ground surface.					
SL	Description of item	Quantity	Unit	Unit Rate in Tk.	Amount in Tk.
1	Dismantling of H.B.B. Brick soling and removal of debris to a safe distance and removal of debris to a safe distance	11,124.00	sft		-
2	After surface redressing, labour charges for laying brick soling with old bricks as per drawing and as approved by the Engineer-in-Charge.	11,124.00	sft		-
3	Providing layout and carry over temporary bench mark (BM) at site from nearby BM pillar, property lines, existing ground level (EGL), formation ground level (FGL), highest flood levels (HFL), plinth levels (PL), setting and marking all pillars, marker, pegs etc. showing and maintaining reduced levels (RL's) including locating, establishing, protecting all public utilities within the premise of work and finally all to be presented in black and white.	12,815.00	sft		-
Sub-Total Amount (Part 4.1)-(In/c VAT)					-
(Part 4.2)-Brick kerbs wall work in the Internal HBB Road Raising for Improvement of campus Drainage System Work					
4	Earthwork in box cutting in all types of soil. Removing soil. Depth up to 450 mm to a safe distance, maintaining proper alignment, camber and grade including leveling, dressing and compacting the sub grade as per drawing and accepted by the Engineer-in charge	2,399.00	sft		-
5	Sand filling in brick wall foundation trenches with sand having minimum F.M. 0.5 in 75 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.	644.00	cft		-

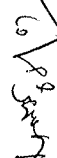

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6	One layer brick flat soling in brick wall foundation trenches with first class(Super brick)(BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	2,575.00	sft	-
7	Mass concrete (1:2:4) in foundation or in floor box, passage, garage with cement, sand (F.M. 1:2) and picked jhama brick(Afil/National) 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 tools & plants and other charges etc. all complete and accepted by Engineer-in charge. (Cement: CEM-II / B-M)	644.00	cft	-
8	Brick works with first class bricks (Use Super brick)with cement sand (F.M. 1.2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	3,412.00	cft	-
9	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in charge. (Cement: CEM-II/B-M) Ground floor	4,800.00	sft	-
10	Miscellaneous work; any type of required work, Additional materials, labor and other accessories if necessary during Maintenance Work. (Site need base)	1.00	LS	-
Sub-Total Amount (Part-4.2)-(In/c VAT)				-


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(Part 4.3) Carriageway work in the Internal HBB Road Raising for Improvement of campus Drainage System Work			
11	Sand filling in Carriageway trenches with sand having minimum F.M. 0.5 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.	8,140.00 cft	-
12	One layer Herringbone bond (HBB) brick soling on Road Carriageway with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling including supply of water, other charges, costs of tools and plants etc. all complete and accepted by the Engineer-in-charge.	10,900.00 sft	-
Sub-Total Amount (Part 4.3)-(In/c VAT)			
(Part 4.4) Brick Box culvert/CHANNEL work in the Internal HBB Road Raising for Improvement of campus Drainage System Work			
13	Earthwork in box cutting in all types of soil. Removing soil. Depth up to 450 mm to a safe distance, maintaining proper alignment, camber and grade including leveling, dressing and compacting the sub grade as per drawing and accepted by the Engineer-in charge	117.00 sft	-
14	Sand filling in box culvert trenches with sand having minimum F.M. 0.5 in 75 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.	22.00 cft	-
15	One layer brick flat soling in box culvert trenches with first class(Super brick)(BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	88.00 sft	-

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16	Brick works with first class bricks (Use Super brick) with cement sand (F.M. 1.2) mortar (1:4) in box culvert including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-I/B-M) In ground floor	37.00	cft	-
17	Reinforced cement concrete works in all channel base & top slab 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_{cc} = 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 (Use Afil picked) 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. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc but including the cost of shuttering & centering with accessories).	70.00	cft	-


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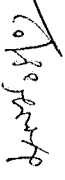
18	Reinforcement for all brick box Channel (2 Nos) base & top slab: Supplying, fabrication and fixing to detail as per design : Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires, conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard) according to Bangladesh standard, with minimum yield strength, f_y (ReH)= 400 MPa but f_y not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to 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 : up to ground floor.ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI)	107.00	kg	-	-
19	Minimum 12 mm thick cement sand (F.M. 1:2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in charge. (Cement: CEM-II/B-M) Ground floor	52.00	sft	-	-
		Sub-Total Amount (Part 4.4)-(In/c VAT)			


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(Part 4.5) RCC Box culvert/channel work in the Internal HBB Road Raising for Improvement of campus Drainage System Work				
	20	One layer brick flat soling in box culvert trenches with first class(Super brick)(BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	112.00	sft
	21	Reinforced cement concrete works in all RCC Box channel(4 nos) 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 jham brick chips(Use Afil picked) 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. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. but including the cost of shuttering & centering).	228.00	cft


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22	Reinforcement for RCC BOX Channel (4 nos): Supplying, fabrication and fixing to detail as per design : Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires, conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard) according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor. ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI)	1,681.00	kg	-	-
(Part 4.6) Passage way work in the Internal HBB Road Raising for Improvement of campus Drainage System Work					
23	Sand filling in passage (2 nos) with sand having minimum F.M. 0.5 in 75 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.	240.00	cft	-	-
24	One layer brick flat soling in passage (2nos) with first class (Super brick) (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	240.00	sft	-	-
25	Mass concrete (1:2:4) in passage with cement, sand (F.M. 1.2) and picked jhama brick (Afil/National) 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 tools & plants and other charges etc. all complete and accepted by Engineer-in charge. (Cement: CEM-II / B-M)	60.00	cft	-	-

26	Brick works with first class bricks (Use Super brick) with cement sand (F.M. 1:2) mortar (1:4) in passage including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	84.00	cft	-
27	Supplying, fitting and fixing 20 mm to 25 mm thick machine made cement pavement tiles (size 300 mm x 300 mm) having minimum compressive strength of 27 MPa, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1:2) mortar (1:4) base and making the joints carefully in true straight line 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). Use on passage.	330.00	sft	-
Sub-Total Amount ((Part 4.6)-(In/c VAT)				
(Part 4.7) Garage development work in the Internal HBB Road Raising for Improvement of campus Drainage System Work				
28	Sand filling in passage (2 nos) with sand having minimum F.M. 0.5 in 75 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.	401.00	cft	-
29	One layer brick flat soling in passage (2 nos) with first class (Super brick) (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge.	401.00	sft	-
30	Mass concrete (1:2:4) in passage with cement, sand (F.M. 1:2) and picked jhama brick (Afil/National) 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 tools & plants and other charges etc. all complete and accepted by Engineer-in charge. (Cement: CEM-II / B-M)	101.00	cft	-


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31	Brick works with first class bricks (Use Super brick) with cement sand (F.M. 1:2) mortar (1:4) in passage including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor	28.00	cft		
32	Supplying, fitting and fixing 20 mm to 25 mm thick machine made cement pavement tiles (size 300 mm x 300 mm) having minimum compressive strength of 27 MPa, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1:2) mortar (1:4) base and making the joints carefully in true straight line 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). Use on passage.	401.00	sft		
33	Miscellaneous work; any type of required work, Additional materials, labor and other accessories if necessary during Maintenance Work. (Site need base)	1.00	LS		
		Sub-Total Amount (Part 4.7)-(In/c VAT)			-


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(Part 4.8) Repair Old box culvert work in the Internal HBB Road Raising for Improvement of campus Drainage System Work					
	34	Brick works with first class bricks (Use Super brick) with cement sand (F.M. 1:2) mortar (1:4) in passage including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) in ground floor	55.00	cft	-
	35	Minimum 12 mm thick cement sand (F.M. 1:2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in charge. (Cement: CEM-II/B-M) Ground floor	50.00	sft	-
			Sub-Total Amount (Part 4.8)-(In/c VAT)		
			Total Amount (Part-5, 5.1 to 5.8)-(In/c Govt. VAT)		
			-		


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