



**TELEPHONE SHILPA SANGSTHA LTD
TONGI, GAZIPUR-1710.**

**Request for Quotions Document (National)
For Procurement of Goods/Works as**

- (i) Supply of PABX Related Installation, Wiring & Earthing Materials for PABX Department, TSS. (Lot-1)
- (ii) Installation of Multi pair cable for internal surface wiring, underground Cabling Works etc for PABX Department, TSS. (Lot-2)

RFQ No: 14.36.0000.044.07.004.16.197

Date: 02.01.2020

Signature

Signature

Signature

Quotation Submission Letter

[Use Letter-head Pad]

Ref No:
RFQ No:

Date:
Date:

To:

Senior Engineer (PABX)
Telephone Shilpa Sangstha Ltd,
Tongi, Gazipur-1710.

I/We, the undersigned, offer to supply in conformity with the Terms, Conditions and Technical Specifications for the Supply of PABX Related Installation & Wiring Materials for PABX Department, TSS.

The total Price of my/our Quotation is BDT **[insert amount both in figure and words]**

The price of My/Our Quotation includes VAT and Tax.

My/Our Quotation shall remain valid for the period stated in the RFQ Document and it shall remain binding upon us and, may be accepted at any time prior to the expiration of its validity period.

I/We declare that I/we have the legal and financial capacity to enter into a contract with you, and have not been declared ineligible, black listed, insolvent by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices. Furthermore, I/we am/are aware of Para 21(b) of the Terms and Conditions and pledge not to indulge in such practices in competing for or completion of delivery of Goods.

I/We am/are not submitting more than one Quotation in this RFQ process in my/our own name or other name or in different names. I/We understand that the Purchase Order issued by you shall constitute the Contract and will be binding upon me/us.

I/We have examined and have no reservations to the RFQ Document issued by you.

I/We understand that you reserve the right to reject all the Quotations or annul the procurement proceedings without incurring any liability to me/us.

Signature of Quotationer with
Name, Designation, Date and Seal

Attachment:

- (a) Bank Solvency Certificate, Trade License, TIN Certificate VAT Registration Certificate
- (b) Compliance Statement, Price Schedule
- (c) Warranty Certificate, Experience Certificates, Country of origin Certificate etc

Schedule for Goods and Related Services (Lot-1)

RFQ NO. 14.36.0000.044.07.004.16. 197

Date: 02.01.2020

Sl No	Description of Materials	Quantity	Units	Unit Price with VAT/IT (BDT)	Total Price with VAT/IT (BDT)
1	PABX Server Mounting Rack				
a	19", 42U Rack-Closed Type Brand: Origin: Made: Year of Manufacture:	2	pc		
b	19", 32U Rack Closed Type Brand: Origin: Made: Year of Manufacture:	2	pc		
c	19", 22 U Rack Closed Type Brand: Origin: Made: Year of Manufacture:	2	pc		
d	19", 12 U Rack Closed Type Brand: Origin: Made: Year of Manufacture:	2	pc		
2	Main Distribution Frame (MDF) and Intermediate Distribution Frame (IDF) Materials				
a	Back Mount Frame/ U-Frame for 100 line	40	pcs		
b	LSA Fuse Stripe with protection Capsule for 10 line each Brand: Origin: Made:	200	pcs		
c	Connection & Disconnection Stripe for 10 line Brand: Origin: Made:	400	pcs		
d	Cable Punch Machine/Tools Brand: Origin: Made:	10	pcs		
3	Fire Alarm System	2	lot		
	Brand: Model: Origin: Includes- Control Panel with Backup Battery - 1 no Smoke Detector with standard base-3 Nos Heat Detector with standard base-3 Nos Manual Call Point (Break Glass)-3Nos Alarm Bell-3Nos, Manual Pull Station - 3 nos				
4	De-humidifier				
	Capacity: 20 Liter / 30 Liter / 50 Liter Brand: Origin: Made: Warranty:	1	Pc (Each)		

X^H

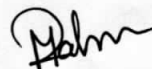

Sl No	Description of Materials	Quantity	Units	Unit Price with VAT/IT (BDT)	Total Price with VAT/IT (BDT)
5	On Line UPS				
	Capacity: 3KVA/5KVA Model: Brand: Origin: Made:	1	Pc (Each)		
6	Automatic Voltage Regulator (AVR)				
	Capacity: 1KVA/3KVA/5KVA Brand/Model: Origin: Made:	1	Pc (Each)		
7	Electrical Surge Protection Module/Device	10	pcs		
	Model: Brand: Origin: Made:				
8	Maintenance Free Battery with SS Rack				
	Voltage: 12volt Current: 7.5AH/10AH/12AH/20AH/28AH /40AH/65AH/80AH/100AH Brand: Origin: Made:	1	pc (Each set)		
9	Plastic DP/DB Box for Telephone Connection				
	Capacity: 20 /50/100 Pair Type: Indoor Brand: Origin: Made:	20	Pcs (each)		
10	Network Cable: CAT-5 Brand: Model: origin: Made: Year of Production: 300 meter per box	10	box		
11	Aluminum Ladder (8 steps)	5	pcs		
	Brand: Model: Origin: Made:				
12	Air Conditioner (AC) with Timer Switch for PABX Room				
13	Capacity: 1 Ton / 1.5 Ton / 2 Ton Brand: Model: Origin: Made:	1	Pc (Each)		
13	Offline UPS-1200VA Brand: Model: origin: Made:	5	pcs		
14	Earthing Materials	1	lot		
a	6RM Copper Cable (Naked)	500	meter		
b	8RM Copper Cable (PVC Shielded)	300	meter		
c	Copper Bar (Round): Dimension: 5' x 1.5" x 0.2"	10	pcs		
15	Installation & Wiring Materials				
a	PVC Pipe-white/gray(3/4" dia)	3000	meter		
b	PVC Pipe-white/gray(1.25" dia)	3000	meter		
c	PVC Pipe-white/gray(1" dia)	4000	meter		
d	PVC Channel-white/gray(1" dia)	4000	meter		
e	Hammer Drill Bit (6.5mm)	100	pcs		
f	Hammer Drill Bit (16 mm)	100	pcs		

Signature of Quotationer:

Name:

Designation:

Date:

Schedule of Requirements (Installation Works) : Lot-2

Sl No	Description of Works	Quantity	Unit	Unit Price (BDT) with VAT/IT	Total Price (BDT) with VAT/IT
1	Underground Cable Installation	2000	R/meter		
	Earth Cutting: 1'x 1'x3'				
	Road Cutting: 1'x 1'x5'				
	Cable laying				
	Earth & Road Boring completely				
2	Internal Surface Wiring Installation				
a	Single Pair / 2 pair Telephone Cable	2000	R/ meter		
b	10 Pair Switchboard Cable	2000			
c	25 Pair Switchboard Cable	2000			
d	50 Pair Switchboard Aerial Cable	2000			
e	100 pair Switchboard Aerial Cable	2000			
f	50 Pair Aerial Cable	2000			
g	100 pair Aerial Cable	2000			

Notes: All the materials for the installation works shall be supplied by procuring Entity, The Quotationer shall quote only the installation price (Electrician, helper etc) including all VAT/Taxes

Country of Origin/Made/Production (Lot-1)

RFQ NO. 14.36.0000.044.07.004.16. 197

Date: 02.01.2020

Sl No	Items	Country of Origin	Country of Made	Year of Production
1	PABX Server Mounting Rack			
2	Main Distribution Frame (MDF) and Intermediate Distribution Frame (IDF) Materials			
3	Fire Alarm System			
4	De-humidifier			
5	On Line UPS			
6	Automatic Voltage Regulator (AVR)			
7	Electrical Surge Protection Module/Device			
8	Maintenance Free Battery with SS Rack			
9	Plastic DP/DB Box for Telephone Connection			
10	Network Cable: CAT-5			
11	Aluminum Ladder (8 steps)			
12	Air Conditioner (AC) with Timer Switch for PABX Room			
13	Offline UPS-1200VA			
14	Earthing Materials			
15	Installation & Wiring Materials			

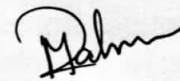
Signature of Quotationer:

Name:

Designation:

Date:





Technical Specification of the Goods Required

Item No	Description of Materials/Goods and Specification	
1	PABX Server Mounting Rack	
	<p>Size: 19" , No of Unit: 42 Unit/32 Unit/22 Unit Dimension: Depends on no of Unit , Type: Closed Main material: - SPCC cold rolled steel; - Thickness: mounting profile 2.0mm, mounting angle 1.5mm, others 1.2mm. Doors: Glass front door With Lock, Rear Solid door With Lock, One fixed shelf/ Tray 6 Way Vertical ZeroU PDU with 13A UK-Type Sockets Moveable side doors with lock. Others: - Full Vented Top Frame with Front / Rear / Side Cable Entrance - 4 Top Fan Tray with Guard (Low Noise) - 2 Lift Off Type Side Door with Quick Release Catch & Cam Lock - Panel Mount with Unit Indication - Base Frame with Provision of Cable Entrance - 1 Set of Heavy Duty Castor Wheels, Set of Leveling Stand, Two fixed shelf, One slipping shelf - Power Distribution Unit (8 Way Vertical Zero U PDU) with 13A UK-Type Sockets - 1 Packet of M6 Cage Nuts Assembly - Color : Black - Toughened glass door with silk-screened flower pattern, vented front door border and rear door; - Adjustable feet and heavy duty castors are available simultaneously; - Cable entry on the top cover and bottom panel with adjustable sizes; - Optional installation of plinth to enable cabinets fixation, under-base cable entry/ventilation; - Efficient and reliable cabinet connection by baying kit; - Removable side panels to ease maintain; - Around 1/3 assembled original volume when flat pack .</p>	
2	Main Distribution Frame (MDF) / Intermediate Distribution Frame (IDF) Materials	
a	Back Mount Frame	<p>Capacity: 20 Pair/50 Pair/100 Pair Material: Stainless Steel with cable guide ring - Fix on 19 inch rack - Offer 10pair disconnection and connection module and earthing module. -With screw to mount on the rack/wall mountable also -Off White/Grey Color</p>
b	LSA Fuse Stripe with protection Capsule for 10 line each	<p>-Contact Materials: Copper preferable -Plastic Material: ABS Or PBT(UL94-V0) -Plating: Silver or Gold Plating: 0.5 um1.25 um5 um -High band module for back mount and profile mount type -scalable for mounting on MDF ,racks,profile bracket,indoor and outdoor distribution box, cross connection cabinets. - Can be installed on krone type stainless steel back mount frames Protection Capsule: 3 pole type/gas discharge type (origin &made:Germany)</p>
c	Connection & Disconnection Stripe for 10 line each	<p>Type: LSA Color: White/off White/Grey Type:krone Material: ABS(UL94V-0) / PBT</p>

		<ul style="list-style-type: none"> -Plastic Material: ABS Or PBT(UL94-V0) -Plating: Silver or Gold Plating: 0.5 um1.25 um5 um -Insertion force:40~75N, Pull Out Force:$F \geq 25N$(axial) \ $F \geq 7.5N$(radial)
d	Cable Punch Machine/Tools	<p>Color: Gray/Off white (Krone Brand) Size: 5 inch/6inch Material: Plastic / Thermoplastic ABS Type: insertion tools Application:MDF/IDF/DP</p> <ul style="list-style-type: none"> -Insulation Displacement Connection (IDC) - Easy operation, - Long life use - No Wire-stripping, screw and solder free -Reliable connections, -Gas tight connection -One push wire insertion - Robust long-term environmental stability - Applicable for all LSA-Plus series as well as for RJ45 jacks and HIGHBAND. - For connecting conductor diameters of 0.35 to 0.9 mm and cable diameters of 0.7 to 1.6 mm. <p>When wiring a second wire in the contact, the sensor is switched off (wire specification and number of wires depend on the connection technology used).</p>
3	Fire Alarm System	<p>Voltage : 220- 230 VAC Frequency: 50-60Hz Environmental condition: 10% to 93% RH Temperature: ≤ 10 to $\geq 50^{\circ}\text{C}$ Others:</p> <ul style="list-style-type: none"> - shall operate on 2 wires (or a 2 core cable) with single loop -The FACP should have redundancy in CPU and loop cards. -The FACP design should be modular for the ensuring easy maintenance and seamless functioning of the system -The FACP shall be arranged such that no other card is disturbed/ removed while removing the faulty card. Cards shall be mounted on only one common bus without any physical contact with one another. - In order to maintain robustness of the system, there shall be only one common bus in one panel. The communication amongst cards in a panel shall take place via the common bus. The use of two or more bays shall be avoided as this will avoid the need to interlink them via loose cable links within the panel. -All system components like detectors, manual call points, sounders shall have corrosion resistant contact points. - Termination of SLC cable at devices & panel shall be properly sealed to avoid false alarms due to spurious signal pick up. - Recessing & dressing of cabling work inside & outside of building on wall & ceiling shall be done neatly to maintain good aesthetic view.
4	De-humidifier	<p>High Quality, High Efficiency Whole House Dehumidifier</p> <ul style="list-style-type: none"> • Up to 160 pints per 24 hours (ANSI/AHAM Standard DH-1) • Vertical and Horizontal Models • Powder Coat Painted Steel Cabinet -14 Gauge Base 20 Gauge Cabinet • Cabinet interior fully insulated with 1" non-fiberglass insulation • Can be installed in conditioned or non-conditioned spaces • Integral Internal Electrical Control Box

		<ul style="list-style-type: none"> • Integral Horizontal Suspension Capability • Stainless Steel Internal Drain Pan • Sani-Clean® Internally trapped 3/4" condensate drain • Balanced Refrigerant Circuit w - 4 Row Evaporator Coil using Automatic Expansion Valve with matched Refrigerant Nozzle and Distributor • Rifled Copper Tube and Aluminum Fin Evaporator and Condenser (Re-heat) Coils • Oversized Refrigerant System Accumulator • R-22 Refrigerant • 24V Control Board - with interlock for air handler blower • Voltage 115v 60Hz • Residential & Light Commercial Applications • Replaceable MERV 8 Pleated Pre-Filter • Replaceable MERV 20 (HEPA) Filter • Built-In Germicidal Ultra-Violet (UV) Lamp • Warranty :1 Year Parts & 5 Year Compressor
5	On Line UPS	<p>Connection: DUAL Input-Hardwired Connection, Nominal Input Voltage: 220/230/240 Vac single phase; 220/380, 230/400, 240/415 Vac three phase , Nominal Output Voltage: 220/230/240 VAC single phase Operating frequency: 45-65Hz, Overload Capacity: 150% for 5 sec / 125% for 1 min (online), 1000% for 5 msec (bypass) , Communication Port: 1 x RS232 for local support, 2 x X-slot (empty); 1 x relay contacts, 1 x emergency power off input Output Voltage Regulation: $\pm 2\%$ static; $\pm 5\%$ dynamic at 100% load change, < 1 ms response time Current Distortion: 5% THD , Input Power Factor: 0.99 LCD Display: Std. Graphical LDC with blue back light; English, Germany, French and Spanish language support as standard. LED: 4 LED, Operating Temperature: 0°C to +40 °C; Batteries max. +25 °C. Audible Noise: < 50 dB at 1 meter; < 53 dB according to ISO7779 Quality Certificate: ISO 9001:2000, ISO14001 ; Efficiency: 92% with nominal linear load; 91% with nominal computer load. User interface</p>
6	Automatic Voltage Regulator (AVR)	<p>INPUT Voltage: 200-264V ac max, 1 phase, 2 wire Frequency 50-60 Hz nominal POWER INPUT (PMG) Voltage: 140-220V ac max, 3 phase, 3 wire Current 3A/phase Frequency 100-120 Hz nominal OUTPUT Voltage: max 120V dc Current continuous 2.7 A Intermittent 6A for 10 secs. Resistance 15 ohms minimum REGULATION: $\pm 1\%$ THERMAL DRIFT: 0.03% per °C change in AVR ambient (note 2) SOFT START RAMP TIME: 3 seconds TYPICAL SYSTEM RESPONSE: AVR Response 10 ms Filled current to 90% 80 ms Machine Volts to 97% 300 ms ENVIRONMENTAL Vibration: 20-100 Hz 50mm/sec 100Hz - 2kHz 3.3g Operating temperature: -40 to +70°C Relative Humidity: 0-70°C 95% (see note 6) Storage temperature: -55 to +80°C</p>
7	Electrical Surge Protection Module/Device (Power Line)	<ul style="list-style-type: none"> • Multi-stage protection circuit with LC Filter design to protect sensitive electronics • Provides extensive high frequency & RF filtering • High Surge capacity: Up to 50kA 10/350 μs or 10kA~ 200kA 8/20 μs per

		<p>mode available</p> <ul style="list-style-type: none"> • Surge capacity of N-PE mode up to 100kA 10/350 μs • Different load current: 10A ~ 800A available for single phase or 3 phase • Built-in fuse in series for overload /short circuit protection • All mode protection, • LED failure indication • Remote alarm function available , • Surge counter optional
8	Maintenance Free Battery with SS Rack	<p>Ambient Temperature:</p> <p>(a) Charge -0 C(32 F)~40 C(104 F) ,</p> <p>(b) Discharge : -20 C(-4 F)~50 C(122 F)</p> <p>(c) Storage: -20 C(-4 F)~40 C(104 F)</p> <p>Frequency- 16.7HZ , Amplitude: 4mm</p> <p>Vibration test: Vibrate the battery horizontally or vertically for 60 minutes.</p> <p>Internal Resistance (Fully Charged Battery): >25Ω</p> <p>Case: ABS Plastic , Rack: SS Steel</p> <p>Others:</p> <ul style="list-style-type: none"> -The battery have no abnormality. -maintenance free, charged, valve regulated, 12volt pure Lead Tin mono-bloc - Battery cable with length 3 Mtr & size 15mm² for + ve and -ve leads with necessary lugs
9	DP/DB Box	<ul style="list-style-type: none"> -Indoor, outdoor installation type -Capacity: 20 Pair/50 Pair/100 Pair -snap in Lock system -Materials: ABS Plastic with Steel Rails , --Cable grommets for wire entry and exit is for waterproof. -Water & Dust proof -Hole-6/8 nos, - Protection Level :IP65 -Color: Gray/Off White
10	Network Cable	<p>UTP Type-CAT-5</p> <p>Insulation: HDPE (CMI-75E)Nominal Wall Thickness: 0.178mm</p> <p>Min. Thickness: 0.153mm/Polyvinyl Chloride</p> <p>Conductors: 26 AWG (0.14 mm²) tinned copper</p> <p>Nominal Impedance: 100 ohms \pm15 ohms</p> <p>Nominal velocity of propagation: 68%-72%</p> <p>Bend Radius : 0.90-2.3 cm</p> <p>Color Code:</p> <p>Pair 1: Blue & White/Blue</p> <p>Pair 2: Orange & White/Orange</p> <p>Pair 3: Green & White/Green</p> <p>Pair 4: Brown & White/Brown</p> <p>Jackets: 75°C LSZH Compound Nominal Wall Thickness: 0.585mm</p> <p>Min. Thickness: 0.458mm, Overall Diameter: 5.8mm \pm 0.3mm</p> <p>Electrical Requirements:</p> <p>(Cable length: 100m) Characteristic Impedance (Zo): 85~115Ω (1~250 MHz)</p> <p>DC. Resistance Capacitance Unbalance: 5%</p> <p>Pair-to-Ground Capacitance Unbalance: 330 pF/100m Max.</p> <p>Conductor Resistance: 14.00Ω/100m 20o Max.</p> <p>Mutual Capacitance: 5.6nF/m Max.</p> <p>Spark Test: 2.5kV, Nominal Velocity of Propagation (NVP): 69%</p> <p>Shields: Inner: aluminium Mylar 100% coverage Outer: tinned copper</p>

		braid 80% coverage
11	<i>Aluminum Ladder (8steps)</i>	<ul style="list-style-type: none"> • Aluminum alloy complying with the suitable grade of IS 617:1975 • Shock Proof – Non Conductive □ Straight Extendable upto 20 ft having aluminium channel of 90X30 mm with 63mm wide steps edging non-slippery. • Modular and Easy to carry, Light weight and High Strength □ 100% Rust and Water Proof , □ Fire Retardant , UV Protection □ Tool Tray , Safe & Durable, Antiskid Grip
12	<i>Air Conditioner (AC) with Timer Switch for PABX Room</i>	<p>Outdoor unit model - AOGR18AAT, Compressor Type -Admiral, Power Source (V/Ø/Hz)- 220-240/1/50, Cooling Input Power (kW) -2.12-2.18, EER (Cooling) -, 2.50-2.28, Running Current (A) -9.8-9.4, Moisture Removal (l/h) -2.0, Sound Pressure (Indoor/Outdoor) -40-42 dB / 56 dB, Indoor Airflow Rate (m3/h) - 750-840, Outdoor Airflow Rate (m3/h) -2,590, Net Dimension - Indoor (H x W x D) (mm) - 320 x 1,120 x 220, Net Dimension - Outdoor (H x W x D) (mm) - 643 x 840 x 336, Net Weight - Indoor (Kg) -16,Net Weight - Outdoor (Kg)-66, Operation Range (°CDB) - 20 to 52, Refrigerant - R22, Split Wall mount Type etc</p>
13	<i>Offline UPS</i>	<p>Type: Offline, Input Voltage (V): 240, Output Voltage (V):120, Frequency (Hz): 60, Transfer Rate (ms):4-8ms, Stabilizer Built-in, Load Capacity: 600W, Noise Level: Less Than 40dB, Battery Voltage: 24VDC, Waveform (Batt. mode): Simulated Sine Wave, Output Frequency Range (Batt. mode): 50/60Hz +- 1Hz, Output AC Voltage regulation (Batt. Mode): +-10%, Input Voltage Range: 140 - 300VAC, Backup: minimum 30 Mint</p>
14	Earthing Materials	
a	6RM Copper Cable (Naked)	
b	8RM Copper Cable (PVC Shielded)	
c	Copper Bar (Round): Dimension: 5' x 1.5" x 0.2"	
15	Installation & Wiring Materials	
a	PVC Pipe-white/gray(3/4" dia)	
b	PVC Pipe-white/gray(1.25" dia)	
c	PVC Pipe-white/gray(1" dia)	
d	PVC Channel-white/gray(1" dia)	
e	Hammer Drill Bit (6.5mm)	
f	Hammer Drill Bit (16 mm)	

I/We declare to supply Goods and related services offered by me/us fully in compliance with the Technical Specifications and Standards mentioned hereinabove

Signature of Quotationer:

Name:

Designation:

Date:

Seal: