

From: H.M. Shahidullah | Deltadesh (Pvt.) Ltd. <shahidullah@deltadesh.com>
Sent: Monday, April 19, 2021 2:05 PM
To: Tanmoy Sakar; Harunor Rashid
Cc: ANAM, Rafiqul; DON, Tenison; Md. Habibur Rahman | Deltadesh (Pvt.) Ltd.
Subject: Re: Revised Price_Aga Khan Academy_Cross-World Power Ltd._18062020@27820
Attachments: Contract Agreement.zip

Dear Tanmoy Bhai,

Refers to trail mail, we have got final go ahead signal from our client to proceed this issue further.

Please see the attached draft full set of Contract documents and confirm your acceptance in the return mail.

Also, please print the price offer file (both tabs) in your letter head pad and send the signed scanned copy by the same return mail.

Should you have any query, please feel free to contact us.

Best Regards

H.M. Shahidullah | Manager-Project Coordination

Deltadesh (Pvt.) Ltd.

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On Sun, Oct 11, 2020 at 10:43 AM Tanmoy Sakar <tanmoy@cross-world.com> wrote:

Dear Sir

Greetings from Cross World Power Limited !!!!

Thank you for your email. We are highly interested to work with your Project. So we will try to meet your target price. In attachment offer file we give a better price.

I am available to elaborate on any queries that you may have.

Thanks & regards,



CROSS WORLD POWER LTD.



Aga Khan Academy, Dhaka

Design, Supply, Installation, Testing & Commissioning of 1250 KVA substation Equipments

Details - Non Type Tested

PART A: FOREIGN PART							
Sl	Description of item	Unit	Qty	Rate (EURO)	Amount (EURO)	Rate (USD)	Amount (USD)
1	Supply of 11KV Single phase (150A) AVR with BY-PASS switch [1 Set = 3 Nos] as per Technical Specification and Drawings.	1	SET		-	42,800.00	42,800.00
2	Supply of 1250 KVA 11/0.415KV Transformer as per Technical Specification and Drawings.	1	SET	16,300.00	16,300.00		-
3	Supply of Bus-bar Trunking System-BBT (Non Type Tested) as per Technical Specification and Drawings.	38.3	M		-	400.00	15,320.00
4	Any Other required Items to be imported [Contractor to list down below]				-		
	a) Supply of Feed Unit	8	Pc		-	428.30	3,426.40
	b) Supply of Elbow	17	Pc		-	571.35	9,712.95
Subtotal-A					16,300.00		71,259.35
Subtotal-A (BDT) [1 USD = 84 BDT, 1 EURO = 92 BDT, 1 GBP=109 BDT]							7,485,385.40
Subtotal-A (in USD)							\$ 89,111.73
PART B: LOCAL PART							
Sl	Description of item	Unit	Qty	Rate (BDT)	Amount (BDT)	Rate (BDT)	Amount (BDT)
1	Supply of 11 KV H.T Switch Gear with 630A NonType Tested VCB (withdraw able type) as per Technical Specification and Drawings.	1	SET			630,000.00	630,000.00
2	Supply of 11 KV H.T Switch Gear with 630A Non Type Tested VCB (withdraw able type) as per Technical Specification and Drawings.	2	SET			630,000.00	1,260,000.00
3	Supply of 2500A LT-1 Switch Gear (Non Type Tested) as per Technical Specification and Drawings.	1	SET			1,424,990.00	1,424,990.00
4	Supply of 2500A ELT Switch Gear (Non Type Tested) as per Technical Specification and Drawings.	1	SET			1,140,659.00	1,140,659.00
5	Supply of Automatic Power Factor Improvement Plant-PFI (Non Type Tested) as per Technical Specification and Drawings.	1	SET		-	727,236.00	727,236.00
6	Supply of ATS (Auto Transfer Switch): 2500A as per Technical Specification and Drawings.	1	SET		-	859,007.00	859,007.00
7	Supply of Dropout Fuse (3 Nos.) as per Technical Specification and Drawings.	1	Set		-	5,000.00	5,000.00
8	Supply of Lighting Arrestor (3 Nos.) as per Technical Specification and Drawings.	1	Set		-	5,000.00	5,000.00
9	Supply of Earthing including boring, copper, pit, etc for Sub-Station as per Technical Specification and Drawings.	4	Set		-	45,000.00	180,000.00
10	Supply of Heat shrink kit (11 KV) with 3Cx185rm (4 sets) as per Technical Specification and Drawings.	4	Set		-	1,500.00	6,000.00
11	Supply of HT Meter as per Technical Specification and Drawings.	1	Set		-	230,000.00	230,000.00
12	Supply of HT and LT Cables	1	Job		-	Employer's Scope	-
13	Installation, testing & commissioning of full system including laying of Employer's supplied cables	1	LS		-	963,855.00	963,855.00
14	Training period [Contractor to provide minimum 1 technical person to be based at site for 8 hours/each day for Training and Maintenance purpose]	1	Month			19,000.00	19,000.00
15	Supply of BY Pass switch	1	LS		-	400,000.00	400,000.00
16	Pre-shipment Visit by 3rd Party	1	LS		-	360,000.00	360,000.00
Subtotal-B (BDT)							8,210,747.00
Subtotal-B (USD)							\$ 97,746.99



CROSS WORLD POWER LTD.



Aga Khan Academy, Dhaka

Design, Supply, Installation, Testing & Commissioning of 1250 KVA substation Equipments

PART C: Miscellaneous Cost							
1	Provisional Cost for Loading from Port, Transport and unloading at Site	1	LS		-	100,000.00	100,000.00
2	Provisional Cost for Bank Charges for L/C, Marine Insurance, All Government charges such as Telex, Stamp & Postage, FCC, Global Tax, all Port Charges, Port Clearance and C&F Agent commission.	1	LS		-	150,000.00	150,000.00
3	Provisional Cost for Advance Payment Gurantee (APG)	1	LS		-	50,000.00	50,000.00
4	Provisional Cost for Performance Security Gurantee (PG)	1	LS		-	50,000.00	50,000.00
5	Provisional Cost for Insurances	1	LS		-	150,000.00	150,000.00
Subtotal-C (BDT)					-		500,000.00
Subtotal-C (USD)							\$ 5,952.38
PART D: GOVERNMENT APPROVAL							
Sl	Description of item	Unit	Qty	Rate (BDT)	Amount (BDT)	Rate (BDT)	Amount (BDT)
1	ELB Certificate and HT meter approval from DESCO	1	LS		-	Ref to proposed PS	Ref to proposed PS
2	Solar Permission from DESCO	1	LS		-	Ref to proposed PS	Ref to proposed PS
3	Micelleneous Govt. Approval (If required)	1	LS		-	Ref to proposed PS	Ref to proposed PS
4	HT Meter test and final approval from DESCO	1	LS		-	Ref to proposed PS	Ref to proposed PS
	PS for Authority Approvals						500,000.00
Subtotal-D (BDT)					-		500,000.00
Subtotal-D (USD)							\$ 5,952.38
Total Cost Including AIT in BDT							16,696,132.40
Total Cost Including AIT in USD							\$ 198,763.48



CROSS WORLD POWER LTD.



Aga Khan Academy, Dhaka

Design, Supply, Installation, Testing & Commissioning of 1250 KVA substation Equipments

Summary - Non Type Tested

SI	Description of item	Amount (USD)	Amount (BDT)
A	Supply of Materials under LC	\$ 89,112	7,485,385
B	Supply of Local Materials & Installation cost inc Pre-Shipment Inspection Cost	\$ 97,747	8,210,747
C	PS for L/C, Loading-Unloading, Transportation, APG, PG, Insurance, etc.	\$ 5,952	500,000
D	PS for Authority Approvals	\$ 5,952	500,000
Total Amount for Non Type Tested		\$ 198,763	16,696,132
	Lead Time	a. Supply of both Foreign and Local Materials: 150 days from the commencement date b. Installation: 30 days (180 days from the commencement date)	
	Warranty Period	24 months from the date of commissioning.	
	After Sales Service	24 months free after sales service from the date of commissioning.	
	Payment Terms	Foreign Part: 100% by LC Local Part a. 30% Advance against BG b. 40% of local part upon supply of local materials at site subject to Engineer's acceptance, less; 100% recovery of advance payment. c. 50% of local part after completion of Installation, Testing, Commissioning, connection and Taking Over Certificate being issued by the Employer. d. 10% retention of Local Part shall be paid by the Employer to the Contractor within 14 days after the expiry of Defect Liability Period (24 months)	





TECHNICAL SPECIFICATION

1	11 KV HT SWITCHGEAR (VCB) : (INCOMING)	Set	1
	14 & 16SWG Sheet steel fabricated 11KV indoor metal enclosed switchgear. This medium voltage switchgear panel shall be used for secondary distribution sub-station upto 12KV & suitable for an ambient temperature of 45 deg.C complete with all accessories, diagrams, levels, wirings & terminals.		
	Technical Data :		
	Service voltage	:	12KV
	Rated voltage	:	11KV
	Rated current of circuit breaker	:	630A
	Insulation level :		
	Impulse withstand voltage 1.2/50 micro-sec. :		75KV (Peak)
	Power frequency withstand voltage/1 min. :		28KV rms.
	The equipment proposed under this offer has been designed, manufactured & tested in accordance with the following applicable IEC standards.		
	- common clause for high voltage switchgear standards	:	IEC 694
	- high voltage switchgear in metallic enclosure	:	IEC 298
	- high voltage ac circuit breakers	:	IEC 56
	- ac switches and earthing switches	:	IEC 129
	- high voltage switches	:	IEC 265
	- high voltage combined switch/fuse for ac current	:	IEC 420
	- current transformers	:	IEC 185
	- voltage transformers	:	IEC 186
	- high voltage fuses	:	IEC 282
	- control monitoring	:	IEC 801
	The switchgear panels shall comprise of :		
	630A, 12KV, 20KA, 50Hz triple pole, Withdrawable type vacuum circuit breaker with motor/manually operated spring charged mechanism with tripping coil & auxiliary contacts.	Set	1
	Brand : ABB		
	Cast resin insulated dry type 11KV double core current transformer, ratio : 150/5/5A.	Set	3
	Core 1 : 10VA, class 0.5M5 for metering		
	Core 2 : 15VA, class 10P10 for protection		
	Dry type cast resin insulated potential transformer for open delta connection.	Set	3
	Ratio : 11000/110V		
	Burden : 50VA, Class : 0.5		
	Protection, Measurement and control unit :		
	Microprocessor based Protection unit having	Set	1
	- Overcurrent (ANSI code 50/51) &		
	- Earth fault (50N/51N) protection		
	The tripping characteristics of the protection unit shall be of IDMT nature with a setting possibility to IDMT & different tripping curves.		
	Brand : ABB		
	Ampere Meter (0-150A) with Selector Switch	Set	1
	Voltmeter (0-15)KV with Selector Switch	Set	1
	6A TP MCB for PT secondary protection.	Set	1
	ON/OFF Push button.	Set	1
	Indicating Lamp	Pcs	5
	Panel Heater with thermostat	Set	1



14 & 16SWG Sheet steel fabricated 11KV indoor metal enclosed switchgear.
This medium voltage switchgear panel shall be used for secondary distribution sub-station upto 12KV & suitable for an ambient temperature of 45 deg.C complete with all accessories, diagrams, levels, wirings & terminals.

Technical Data :

Service voltage : 12KV
Rated voltage : 11KV
Rated current of circuit breaker : 630A

Insulation level :

Impulse withstand voltage 1.2/50 micro-sec. : 75KV (Peak)

Power frequency withstand voltage/1 min. : 28KV rms.

The equipment proposed under this offer has been designed, manufactured & tested in accordance with the following applicable IEC standards.

- common clause for high voltage switchgear standards	: IEC 694
- high voltage switchgear in metallic enclosure	: IEC 298
- high voltage ac circuit breakers	: IEC 56
- ac switches and earthing switches	: IEC 129
- high voltage switches	: IEC 265
- high voltage combined switch/fuse for ac current	: IEC 420
- current transformers	: IEC 185
- voltage transformers	: IEC 186
- high voltage fuses	: IEC 282
- control monitoring	: IEC 801

The switchgear panels shall comprise of :

630A, 12KV, 20KA, 50Hz triple pole, withdrawable type vacuum circuit breaker with motor/manually operated spring charged mechanism with tripping coil & auxiliary contacts.

Set 1

Brand : ABB

Cast resin insulated dry type 11KV double core current transformer, ratio : 150/5/5A.

Set 3

Core 1 : 10VA, class 0.5M5 for metering

Core 2 : 15VA, class 10P10 for protection

Dry type cast resin insulated potential transformer for open delta connection.

Set 3

Ratio : 11000/110V

Burden : 50VA, Class : 0.5

Protection, Measurement and control unit :

Microprocessor based Protection unit having

Set 1

- Overcurrent (ANSI code 50/51) &

- Earth fault (50N/51N) protection

The tripping characteristics of the protection unit shall be of IDMT nature with a setting possibility to IDMT & different tripping curves.

Brand : ABB

Ampere Meter (0-150A) with Selector Switch

Set 1

Voltmeter (0-15)KV with Selector Switch

Set 1

6A TP MCB for PT secondary protection.

Set 1

ON/OFF Push button.

Set 1

Indicating Lamp

Pcs 5

Panel Heater with thermostat

Set 1



3 2500A LT-1 Switch Gear

Set 1

Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type LT Switchgear Panel with 4000A Hard Drawn Cu Busbar.

Set of components required for the manufacture of Panel comprising :-

INCOMING :

2500A, 65kA, TP DO type ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge, Under Voltage release.

Pcs 1

2500/5A Current Transformer 10/5VA, Class-1

Pcs 3

Phase Indicating Lamp (Red, Yellow & Blue)

Pcs 3

Digital Multifunction meter

Pcs 1

ON & OFF Push button

Pcs 2

CB ON OFF TRIP Indication lamp

Pcs 3

1x6A, TP MCB for the protection of control circuit

Pcs 1

OUTGOING :

2500A, 65kA, TP ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge for ATS

Pcs 1

1600A, 65kA, TP ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge for MDB

Pcs 1

1250A, TP, 50KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection for PFI

Pcs 1

80A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for SPD

Pcs 1

80A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for Spare.

Pcs 1

125A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for Spare.

Pcs 1

200A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for Spare.

Pcs 1

2500A, 65kA, TP Fixed type ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge, Under Voltage release.

Pcs 1

BUSBAR Details

4000A TPN+1/2E Common Busbar

3x2500A Terminal Busbar

1x1600A Terminal Busbar

1x1250A Terminal Busbar

1x200A Terminal Busbar

ENCLOSURE As Standard.

Connection Accessories .

Breaker Brand : Schneider Electric

Ameter & Voltmeter Brand : MultiSpan



4 **2500A ELT Switch Gear**

Set 1

Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type ELT Switchgear Panel with 3000A Hard Drawn Cu Busbar.

Set of components required for the manufacture of Panel comprising :-

INCOMING :

2500A, 65kA, TP DO type ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge, Under Voltage release.

Pcs 1

2500/5A Current Transformer 10/5VA, Class-1

Pcs 3

Phase Indicating Lamp (Red, Yellow & Blue)

Pcs 3

Digital Multifunction meter

Pcs 1

ON & OFF Push button

Pcs 2

CB ON OFF TRIP Indication lamp

Pcs 3

1x6A, TP MCB for the protection of control circuit

Pcs 1

OUTGOING :

1600A, 65kA, TP Fixed type ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge, Under Voltage release for academy school & nursery.

Pcs 1

200A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection for facility & maintenance.

Pcs 1

200A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for common & sports.

Pcs 1

400A, TP, 50KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for MYP Residential-01.

Pcs 1

400A, TP, 50KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for MYP Residential-02.

Pcs 1

200A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for MYP Residential-03.

Pcs 1

200A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for MYP Residential-04.

Pcs 1

160A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for DP Residential-01.

Pcs 1

160A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for DP Residential-02.

Pcs 1

200A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for External lighting.

Pcs 1

320A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for solar panel.

Pcs 1

125A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for **SPACE**.

Pcs 1

80A, TP, 36KA, 415V, 50Hz, MCCB with having adjustable overcurrent & magnetic short circuit protection, for **SPACE**.

Pcs 1

**BUSBAR Details**

3000A TPN+1/2E Common Busbar

1x2500A Terminal Busbar

1x1600A Terminal Busbar

1x1250A Terminal Busbar

2x400A Terminal Busbar

1x320A Terminal Busbar

5x200A Terminal Busbar

ENCLOSURE As Standard.

Connection Accessories .

Breaker Brand : Schneider Electric**Ameter & Voltmeter Brand : MultiSpan**

5	<u>750kVAR auto/manual PFI plant</u>	Set	1
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Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type PFI Panel with 1250A Hard Drawn Copper Busbar.

Set of components required for the manufacture of PFI Panel comprising :-

5X100(25X4) kVAR,415V,50 Hz, 3 Phase, normal duty type, self healing compact PF capacitors bank with discharge resistor.	Nos.	20
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3X50(25X2)kVAR,415V,50 Hz, 3 Phase, normal duty type, self healing . compact PF capacitors bank with discharge resistor.	Nos.	6
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3X25(25X1)kVAR,415V,50 Hz, 3 Phase, normal duty type, self healing . compact PF capacitors bank with discharge resistor.	Nos.	3
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1X12.5kVAR,415V,50 Hz, 3 Phase, normal duty type, self healing compact PF capacitors bank with discharge resistor.	Nos.	1
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1X 12.5kVAR,415V,50 Hz, 3 Phase, normal duty type, self healing . compact PF capacitors bank with discharge resistor.(Direct)	Nos.	1
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Magnetic Contactor for 50Kvar capacitor.	Nos	13
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Magnetic Contactor for 25Kvar capacitor.	Nos	3
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Magnetic Contactor for 12.5Kvar capacitor.	Nos	1
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100A,TP, MCCB	Nos	13
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63A,TP, MCCB	Nos	3
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32A,TP, MCB	Nos	2
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Indication Lamp	Nos	14
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10A TP MCB	Nos	2
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2A SP MCB	Nos	14
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14 Steps reactive power regulator which performs the switching of capacitor bank in automatic power factor correction equipments depending on charges of reactive power complete with p.f.luminescent indicators & digital power factor meter	No	1
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2000A TP Common Busbar

Enclosure As Standard.

General Accessories.

Brand**Capacitor Bank: Epcos****Magnetic Contactor : Hyundai****Circuit Breaker; Brand : Schneider****12 Steps Reactive Power Regulator : Mikro**

**6 ATS Panel**

Set 1

Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type ATS Panel with 2500A Hard Drawn Cu Busbar.

Set of components required for the manufacture of Panel comprising :-

INCOMING :

2500A, 65kA, TP Fixed type ACB with closing solenoid and store -energy spring charged operating mechanism and solid state microprocessor controlled adjustable thermal overload and short-circuit releases with auxiliary contacts, closing coil, Gear motor for Spring Charge, Under Voltage release.

Pcs 2

2500/5A Current Transformer 10/5VA, Class-1

Pcs 6

Phase Indicating Lamp (Red, Yellow & Blue)

Pcs 6

Digital Multifunction meter

Pcs 2

ON & OFF Push button

Pcs 2

CB ON OFF TRIP Indication lamp

Pcs 6

1x6A, TP MCB for the protection of control circuit

Pcs 3

Electrical Interlock

Job 1

BUSBAR Details

2500A TPN+1/2E Common Busbar

3x2500A Terminal Busbar

ENCLOSURE As Standard.

Connection Accessories .

Breaker Brand : Schneider Electric