



কট

৮৯৯১৩৭১

FORM OF AGREEMENT

THIS ARGEEMENT made and entered in to this 13 day of October 2017 Between **UNIVERSAL HEALTH SERVICES & RESEARCH LTD.**, 23- Green Road, Dhaka-1205, Bangladesh. (Hereinafter called "The Employer") of the one part and **CROSS WORLD POWER LTD.**, Plot-1/B, Road-90, Gulshan-2, Dhaka, Bangladesh. (Hereinafter called "the Contractor") of the other part.

WHEREAS the employer is desirous that certain works namely **Supply, Installation, Testing & Commissioning Of Diesel Engine Driven Electric Generators with Synchronizing & Load Sharing Module, Fuel Reserve Tank, Room Acoustic Treatment with Ventilation, Extended Exhaust Discharge for Universal Health Services & Research Ltd. at 23, Green Road, Dhaka-1205.** (here under referred to as works) should be executed and has accepted a Tender by the contractor for the Supply, Installation, Testing & Commissioning, completion and maintenance of the said works.

Contract price is **Tk. 5,32,00,000.00 (Five Crore Thirty Two Lac Only)** and the work to be completed with all respect within **5 (Five) months** from the date of signing of the Contract agreement. However both the parties agree that in the event of delay of completion of the project within the agreed time frame a liquated damage of 0.05% (point zero five percent) of the Contract price for delay for each day or part thereof with a maximum of 5% (five percent) of the Contract price will be payable by the contractor.

Payment schedule and all other terms and conditions will be as per **tender specification**. Total amount mentioned must not exceed **Tk. 5,32,00,000.00** , the maximum limit. In any situation, if the currency rate is increased or decreased, it will be at the supplier's cost.

AND WHEREAS the employer had issued a letter of Intent to the contractor under reference UHSRL/CW/2017/02 dt. 08-10-2017 in acknowledgement of the acceptance of the Tender in terms of which the contractor was asked to submit Performance Bond and Time Schedule for execution of Contract.

AND WHEREAS the contractor acted upon the Letter of intent and submitted Performance Bond No. NCCB/MOGH/PG-35/17 dt. 09-10-2017, Time Schedule for execution of Contract and shop drawing. AND WHEREAS it was provided in the Letter of intent that formal Agreement will be executed from the date of commencement of the works by the contractor. AND WHEREAS agreement mutually subscribed by both parties, employer and contractor as below:-

1. In this agreement word and expression shall have the same meanings as are respectively assigned to them in the condition of contract hereinafter referred to.

“দেশপ্রেমের শপথ নিন, দুর্নীতিকে বিদায় দিন”



কথ ৮৩৩৫০১৮

2. The Tender Document consisting following chapters shall be deemed to form and be read and construed as part of this agreement, Viz.

- Letter of Intent.
- Notice inviting Tenders.
- Instruction to Tenderers.
- Abstract of Tender.
- General Conditions Of Contract.
- Schedule of Items and Bill of Quantities.
- Any other decisions mutually agreed upon by the parties.

3. Short description of accepted items :

Sl.	Name of Items	Description
	<u>Diesel Generator</u> <u>(Prime Rated)</u>	Capacity: Min. 1500 KW, 1000 KW, 500 KW 400V-3PH -50Hz with Neutral out. Operation: Synchronized with Load Sharing Module. Country Origin: UK. Brand: Tempest. Alternator: Stamford, UK. Engine: Perkins UK. , USA(For 650KVA) Mounting: With Vibration Isolation Acoustic treatment with ventilation for Generator room.

4. Mode of Payment

- Generator L/C will be opened by Universal Health Services & Research Ltd. Money spent by Universal Health Services & Research Ltd. will be adjusted from the total contract value i.e Tk. 5,32,00,000.00 and rest will be paid to the contractor (Cross World Power Ltd.)
- 10 % of the Security Deposit will be deducted from each bill/ payment which will be paid 12 months after the completion of the Installation, Testing, Commissioning & handover of the total work.
- All payments will be made to the Contractor after deduction of S.D (security deposit) , VAT, AIT and any other government Levies applicable.

5. Pre shipment inspection (PSI) of the Owner's representatives to be performed at owners cost at the time of load testing. Schedule will be declared and visa must be processed by the supplier with reasonable time in hand.



কট ৮৯৯১৩৭০

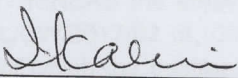
6. In consideration of the payment to be made by the Employer to the Contractor as hereinafter mentioned the Contractor hereby covenants with the Employer to construct and complete the works and maintain the permanent works in conformity in all respects with the provisions of the contract.

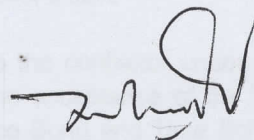
7. The Employer hereby covenants to pay to the contractor in consideration of the construction and completion of the works and maintenance of the permanent works at the contract price at the time and in the manner prescribed by the contract.

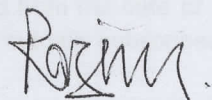
8. All disputes relating to any matter covered under and by this Agreement shall be peacefully settled between the parties to the Agreement by negotiation. If negotiation fails to produce the settlement, any party to the dispute may refer the dispute to a settlement by arbitration under the provision of Arbitration Act 2001 by a sole or more than one but odd number of arbitrator. However, if the parties fail to agree on the same, the dispute shall be referred for settlement by an arbitration tribunal of three arbitrators where each party will appoint one arbitrator and the arbitrators so appointed will appoint the chairman of the tribunal. The law governing the arbitration proceedings shall be the Arbitration Act. 2001. The venue of arbitration shall be Dhaka.

IN WITNESS WHERE OF the parties hereto have cause their respective common seals to be Hereinto affixed (or have hereinto set their respective hands and seals) the day and year first above written.

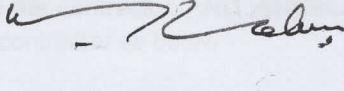
SIGNED SEALED AND DELIVERED BY

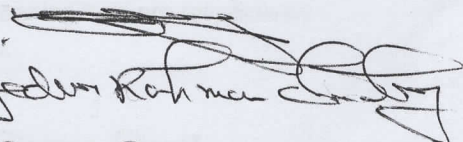

SIGNATURE OF CONTRACTOR
Iftekhar Karim
Chief Operating Officer


SIGNATURE OF EMPLOYER
Masih Malik Chowdhury
Director/ Managing Director

Witness:
1) 

2) 

Witness:
1) 

2) 

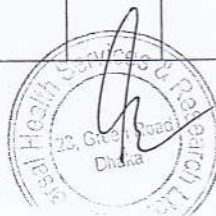
“দেশপ্রেমের শপথ নিন, দুর্নীতিকে বিদায় দিন”

LOT-1

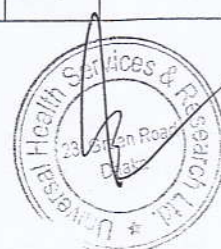
SCHEDULE OF ITEMS, QUANTITY, UNIT, RATE AND AMOUNT FOR ELECTRIC SUB-STATION FOR UNIVERSAL HEALTH SERVICES & RESEARCH LTD. 23-GREEN ROAD, DHANMONDI, DHAKA -1205.

PART -A1

Description of Items	Qty.	Unit	Rate in TK	Amount TK
<u>H.T. SWITCHGEAR PANEL:</u> Supply of Type-tested sheet steel clad (16 SWG) dust & vermin proof free standing, floor mounting indoor type completely factory assembled 12 KV, 800A, 3-phase, 50Hz-H.T. Panel.	1 NO	SET	1,908,172	1,908,172
<u>PANEL BOARD ASSEMBLED: POWER-WELL INTERNATIONAL, MALAYSIA.</u> The H.T. panels shall be comprising of the following components:- <ul style="list-style-type: none"> • 3 Nos-800A electrolytic tinned copper bus-bars. • 1-12KV, 3-phase, 800A, 25KA, 50 Hz spring charged stored energy With motor operation mechanism withdraw able type vacuum circuit breaker with auto-manual tripping device for emergency operation, maximum service voltage 11 KV, short circuit making current 50 KA peak, short circuit breaking current 28 KA. Operating duty Co-155-Co, dielectric strength 1 minute 36 KV, impulse voltage level-75 KV, rated interrupting time 5 cycles, having 4 No + 4NC auxiliary contacts, capacitor shunt tripping unit, mechanical ON/OFF Trip indicator. Brand: Siemens, Germany • 1 No 11KV, 25KA, 50Hz TP – earthing switch to be interlocked with the V.C.B. Country of origin: Malaysia • 3- cast resin insulated, double pole potential transformers having ration $(11000/\sqrt{3})/(110 V/\sqrt{3})$, burden 50 VA class 0.5 for metering & 3P for protection. Country of origin: Malaysia • 1- TP MCCB for P.T secondary. Brand: Siemens • 3- 11KV, east resin insulated dry type double core current transformer having ratio 300/5/5 amps, burden 10/15 VA first core for metering of class 1 and second core for protection of class 10P. Country of origin: Malaysia • 1- Amp Meter having scale 0-300 amps with selector Switch. Country of origin: Malaysia • 1- Volt Meter having scale 0-12 KV. Country of origin: Malaysia 				



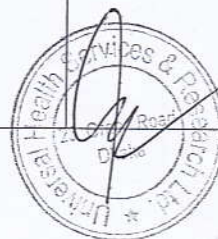
Description of Items	Qty.	Unit	Rate in TK	Amount TK
<ul style="list-style-type: none"> 1- Triple pole solid state micro-processor based IDMT relay with adjustable time delay over current, instantaneous short circuit and earth fault protection element. Brand: Siemens 1-3 phase, two part-time of the day KWHR meter with peak & off peak energy consumption and maximum demand indicator of KW with time integrating period of 30 minutes. The meter shall be digital type. Country of origin: Malaysia <ul style="list-style-type: none"> 3- Indicating lamps ON/OFF/TRIP 3- Indicating lamp for indicating bus-bar voltage. 1- Panel space heater. 1- set controller to trip the H.T. breaker when the temperature within the winding of dry transformer exceeds preset value. Brand: Malaysia				
TRANSFORMER: Supply of indoor type 4000 KVA Cast Resin naturally air cooled transformer complying generally with IEC/VDE/BS standards & of following specification: <ul style="list-style-type: none"> Voltage ratio: 11000/415 volts. Type of cooling: AN Phase : 3 phases 4 wire, with neutral out and solidly grounded. Rating . 4000 KVA-3 phase-50Hz Vector group: Dyn11 Terminal: H.T suitable for copper cable of maximum 185 mm² NYSEYFGBY and L.T suitable for connection with BBT. L.T Basking : Suitable for connection with BBT. Tap Changer: $\pm 2\% \times 2.5\%$ Ambient Temperature 40°C Cover: IP-20 No Load Loss: Load Loss: Temperature Sensor for Core & Winding. Temperature Controller to Trip H.T Breaker, In case Temperature crosses Preset Value. Thermal Relay for Heat Sensor. Brand: SEA, Italy 11KV Automatic Voltage Regulator(AVR)- 3x1P Brand: Siemens, USA Rated Current: 219 Amps By-Pass Switch Brand: Siemens, Tiwan	1	NOS	11,135,996	11,135,996



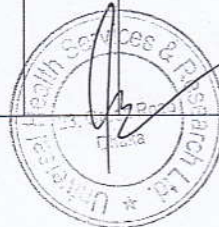
Description of Items	Qty.	Unit	Rate in TK	Amount TK
<u>L.T. PANEL(Double copper bus , TP 6300A) & FDB</u> Supply of sheet steel clad (16 SWG) dust and vermin proof, free standing, floor mounting indoor type low tension switch gear panel (LT-panel) & floor distribution Board (FDB)conforming to IEC 439-1/relevant VDE/BS standard and suitable for 415 V-3 phase-50Hz with all internal wiring, Volt & Amp Meters, indicators accessories, copper bus bars and opening at top & bottom for BBT & Cable connections. The board shall be completely assembled with all ACB, MCCB, MCB, meters, Bus-bars, switches & Indicators. BREAKER: SIEMENS, Europe . PANEL BOARD ASSEMBLED: POWER-WELL INTERNATIONAL, MALAYSIA. <ol style="list-style-type: none"> ACB (3WL): Siemens, Europe MCCB (3VT): Siemens, Europe MCB: Siemens, Europe CT with Ammeter: Malaysia Volt Meter: Malaysia Timer: Omron DPM: Malaysia 				
<u>A.LT PANEL-1A:</u> <u>INCOMING:</u> 1X6300A, TP- ACB 100KA,415V-50Hz Draw out type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil , time delay trip setting element etc all complete. (Main Breaker from X-Former) 1X32000A, 4P- ACB 65KA,415V-50Hz Draw out type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil time delay trip element etc all complete. (For Generator-1) 1X32000A, 4P- ACB 65KA,415V-50Hz Draw out type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil ,time delay trip element etc all complete. (For only Space Provision for 1500KW Gen.) 1X25000A, 4P- ACB 65KA,415V-50Hz Draw out type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil , time delay trip element etc all complete. (For Generator-2) 1X1250A, 4P- ACB 65KA,415V-50Hz Draw out type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil ,time delay trip element etc all complete. (For Generator-3)	1 NO	SET	22,888,597	22,888,597



Description of Items	Qty	Unit	Rate in TK	Amount TK
<u>OUT GOING:</u> 1X4000A , TP- ACB 65KA,415V-50Hz Fixed type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil , time delay trip element etc all complete. (For P.F.I) 2X2000A , TP- ACB 65KA,415V-50Hz Fixed type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil ,time delay trip element etc all complete. (For ATS-1, BBT-1) 2X2000A , TP- ACB 65KA,415V-50Hz Fixed type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil, time delay trip element etc all complete. (For ATS-2, BBT-2) 2X2500A , TP- ACB 65KA,415V-50Hz Fixed type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil, time delay trip element etc all complete. (For ATS-3, BBT-3) 2X1600A , TP- ACB 65KA,415V-50Hz Fixed type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil, time delay trip element etc all complete. (For ATS-4, LT PANEL-1B) <u>B.LT PANEL-1B:</u> <u>INCOMING:</u> 1X1250A , TP- ACB 65KA,415V-50Hz Fixed type both manual and motor operated mechanism, OFF-ON-TRIP indicator's, adjustable over load, short circuit, under voltage coil, time delay trip element etc all complete. <u>OUT GOING:</u> 2X400A , TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. For Base-3 1X250A , TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. For C.T Scan 1X150A , TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. For Base-1				



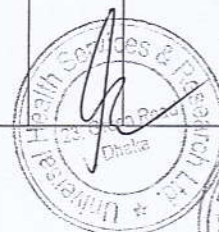
Description of Items	Qty.	Unit	Rate in TK	Amount TK
<p>1X125A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. For Cancer Unit</p> <p>3X100A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. For Base-2, Water Pump, Medical Gas.</p> <p>1X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. Spare</p> <p>1X50A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. Spare</p> <p>1X32A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. Spare</p> <p>1X32A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. Spare</p> <p>1X25A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. Spare</p> <p>1X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. Spare</p>				
<p><u>B. FDB:</u></p> <p><u>1. FDB-B-03</u></p> <p>INCOMING:</p> <p>1X400A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>OUTGOING:</p> <p>3X100A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>4X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p>			522,236	522,236



Description of Items	Qty.	Unit	Rate in TK	Amount TK
<p>2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p>				
<p>2. <u>FDB-B-02</u></p> <p>INCOMING:</p> <p>1X100A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>OUTGOING:</p> <p>3X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p>	1 NO	SET	301,290	301,290
<p>3. <u>FDB-B-01</u></p> <p>INCOMING:</p> <p>1X150A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>OUTGOING:</p> <p>3X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>3X40A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p>	1 NO	SET	401,720	401,720



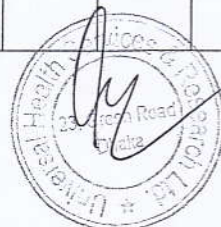
Description of Items	Qty.	Unit	Rate in TK	Amount Tk
3X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.				
3X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.				
3X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.				
6. FDB- 3rd .F	1 NO	SET	903,871	903,871
<u>INCOMING:</u>				
1X800A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
1X250A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
<u>OUTGOING:</u>				
1X500A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
2X250A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
1X125A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
2X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
5X40A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.				
2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.				
2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.				
2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.				



Description of Items	Qty.	Unit	Rate in TK	Amount TK
7. FDB- 6th .F <u>INCOMING:</u> <p>1X400A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p><u>OUTGOING:</u></p> <p>5X100A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>4X40A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p>	1 NO	SET	502,150	502,150
8. FDB- 7th .F <u>INCOMING:</u> <p>1X630A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p><u>OUTGOING:</u></p> <p>6X100A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>4X40A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p>	1 NO	SET	602,580	602,580

Description of Items	Qty.	Unit	Rate in TK	Amount TK
<p>9. FDB- 8th .F</p> <p><u>INCOMING:</u></p> <p>1X400A, TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p><u>OUTGOING:</u></p> <p>2X100A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>4X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>4X40A, TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release</p>	1 NO	SET	552,365	552,365
<p>10. FDB- 9th , 10TH , 11TH , & 12TH F</p> <p><u>INCOMING:</u></p> <p>1X150A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p><u>OUTGOING:</u></p> <p>4X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release.</p> <p>2X20A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.</p> <p>2X10A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release</p>	4 NOS	SET	361,548	1,446,192

Description of Items	Qty.	Unit	Rate in TK	Amount in TK
11. FDB- RF -01 (LIFT) <u>INCOMING:</u> 1X250A , TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. <u>OUTGOING:</u> 8X63A , TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. 2X20A , SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. 2X16A , SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. 2X10A , SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release	1	NO SET	502,150	502,150
12. FDB- RF -02 (LIFT) <u>INCOMING:</u> 1X200A , TP- MCCB 65KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. <u>OUTGOING:</u> 3X100A , TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. 2X40A , TP- MCCB 25KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. 2X20A , SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. 2X16A , SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release. 2X10A , SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release	1	NO SET	331,419	331,419



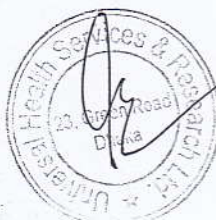
Description of Items	Qty.	Unit	Rate in TK	Amount TK
13. FDB- FCU (B-01, GR, 1ST, 2ND, 4TH, 5TH, 10TH, 11TH & 12TH .F) <u>INCOMING:</u> 1X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. <u>OUTGOING:</u> 12X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.	9 NOS	SET	145,065	1,305,585
14. FDB- FCU (3RD, 6TH, 7TH, 8TH & 9TH .F) <u>INCOMING:</u> 1X63A, TP- MCCB 36KA, 415V-50Hz with built in adjustable thermally delayed over load and instantaneous electromagnetic short circuit release. <u>OUTGOING:</u> 30X16A, SP-MCB 10KA, 220V-50Hz with built-in instantaneous Electro-magnetic short circuit release.	5 NOS	SET	220,946	1,104,730



Description of Items	Qty.	Unit	Rate in TK	Amount TK
P.F.I: Supply of sheet steel clad (16 SWG) dust and vermin proof, free standing, floor mounting indoor type 415 V - 50Hz 3 phase centrally controlled PFI plant in 12 switching steps with hard drawn copper bus-bars and equipped with the followings. a) Contactor (3RT): Siemens, Germany b) Capacitor: Electronicon, Germany c) TP MCCB: Siemens, Europe d) PFI Relay: Siemens (Epcos) PANEL BOARD ASSEMBLED: POWER-WELL INTERNATIONAL, MALAYSIA. PFI (2400 KVAR) consisting the following : 1 Set TP Copper Busbar rating: 3600A TPN+E <ul style="list-style-type: none"> 1 no, 12 stages automatic power factor correction relay with display of P.F.I AMPS, Volts & Fault status. 1 No 50(2x25)KVAR- Direct 2 nos 50(2x25) KVAR 440 V, 50Hz TP dry type capacitor bank in built discharge resistor. 1 no 100(4x25) KVAR 440 V, 50Hz TP dry type filled capacitor bank in built discharge resistor. 1 no 150(6x25) KVAR 440 V, 50Hz TP dry type filled capacitor bank in built discharge resistor. 4 no 200(8x25) KVAR 440 V, 50Hz TP dry type filled capacitor bank in built discharge resistor. 4 nos 300(12x25) KVAR 440 V, 50Hz TP dry type filled capacitor bank in built discharge resistor. 1 no- 125A TP MCCB (For 50KVAR Direct) 47 nos-125A TP MCCB (For 2350KVAR) 47 nos-110A, TP magnetic air contactor (For 47x50KVAR) 1 no-Auto /on/off/ Manual selector switch 12 nos ON/OFF switch. 12 nos Indicators. 	1 NO	SET	6,728,816	6,728,816



Sl No	Description of Items	Qty.	Unit	Rate in TK	Amount TK
05.	<p><u>BUSBAR TRUNKING SYSTEM (BBT)</u> Supplying of Type – tested EPOXY COATED/ MYLER INSULATED 600V AC -50Hz, IP: 55 Bus-bar trunking system (BBT) complete with copper Bus-bar & continuous earthing with tap of Boxes including MCCB, elbows, reducers, flange- end tees hanger etc all complete as per specification and routing shown on the drawing. Bus-Bar Trunking system shall conform to IEC 61439-6 Edition 1.0 2012-05 & ISO 9001 certification shall be suitable for installation conforming to IEC 364. The Tap off Box must be Dust & vermin proof weather treated and of proper finishing conforming IP: 55. Note: Quantities are approximate, the tendere must visit the site and obtain actual measurement. Brand: Siemens, Europe Material: Copper Cover: Aluminium <u>A. BBT-A (X-FORMER TO L.T PANEL)</u> 5500A PANEL Board connection unit : 1no (to be connected at the top of the panel) 5500 A Vertical Bends : 2Nos 5500 A Horizontal Bends : 2Nos 800 A straight Horizontal length : 6 M 800 A Vertical length : 1 M Copper bar to connection from X-Former Bushing to BBT. <u>B. BBT-1</u> 2000A PANEL Board unit : 1no 2000 A Vertical Bends : 2Nos 2000 A Horizontal length : 10 M 2000 A Vertical length : 50 M <u>TAP OFF BOX</u> 800A TAP OFF BOX WITH MCCB : 1 No 630A TAP OFF BOX WITH MCCB : 1 No 400A TAP OFF BOX WITH MCCB : 2 Nos 250A TAP OFF BOX WITH MCCB : 1 No 150A TAP OFF BOX WITH MCCB : 3 Nos 63A TAP OFF BOX WITH MCCB : 1 Nos</p>	1 Lot	Lot	19,061,188	19,061,188



Sl No	Description of Items	Qty.	Unit	Rate in TK	Amount Tk
	<u>PROVISION FOR TAP OFF BOX</u>				
	800A TAP OFF BOX WITH MCCB : 1 No				
	630A TAP OFF BOX WITH MCCB : 1 No				
	400A TAP OFF BOX WITH MCCB : 2 Nos				
	250A TAP OFF BOX WITH MCCB : 1 No				
	150A TAP OFF BOX WITH MCCB : 3 Nos				
	100A TAP OFF BOX WITH MCCB : 6 Nos				
	63A TAP OFF BOX WITH MCCB : 8 Nos				
	<u>C. BBT-2</u>				
	2000A PANEL Board unit : 1no				
	2000 A Vertical Bends : 2Nos				
	2000 A Horizontal length : 12 M				
	2000 A Vertical length : 50 M				
	<u>TAP OFF BOX</u>				
	630A TP WITH MCCB : 1 No				
	400A TP WITH MCCB : 4 Nos				
	250A TP WITH MCCB : 1 No				
	200A TP WITH MCCB : 1 No				
	160A TP WITH MCCB : 1 No				
	150A TP WITH MCCB : 2 Nos				
	100A TP WITH MCCB : 1 No				
	<u>PROVISION FOR TAP OFF BOX</u>				
	630A TP WITH MCCB : 1 No				
	400A TP WITH MCCB : 4 Nos				
	250A TP WITH MCCB : 1 No				
	200A TP WITH MCCB : 1 No				
	160A TP WITH MCCB : 1 No				
	150A TP WITH MCCB : 2 Nos				
	100A TP WITH MCCB : 6 Nos				
	63A TP WITH MCCB : 6 Nos				
	<u>D. BBT-3</u>				
	2500A PANEL Board unit : 1No				
	2500 A Vertical Bends : 2Nos				
	2500 A TPN+PER FEED UNIT : 1No				
	2500 A Horizontal length : 14 M				
	2000 A Vertical length : 50 M				
	<u>TAP OFF BOX</u>				
	63A TP WITH MCCB : 14 Nos				
	<u>PROVISION FOR TAP OFF BOX</u>				
	63A TP WITH MCCB : 14 Nos				



PART -A2

Sl No	Description of Items	Qty.	Unit	Rate in Taka	Amount in Taka
01	H.T CABLE: Supplying, laying, testing, terminating & energizing of 11KV-H.T.- 3 Core PVC insulated, PVC Sheathed, armored copper cable or XLPE insulated PVC Sheathed (Type: NYSEYFGBY of Eastern cable/ A2xSEYFGY), through cable tray / Drain within building kits, tape, lugs, ties, glands etc, as per standard practice, manufacturer's instruction, direction of the Engineer-in-charge including all type of fixing and securing accessories etc. all complete. i) 3C-185mm ² -11 KV (NYSEYFGBY/A2xSEYFGY) From H.T Metering Panel to H.T Switchgear Panel From H.T Switchgear Panel to X-Former.	40	M	9,015	360,600
02	L.T CABLE: Supplying laying & terminating of PVC insulated & PVC sheathed or only PVC insulated current carrying copper conductor thorough pre-installed tray/duct/conduit including tape, lugs, glands, ties, all other consumables as per standard practice, manufacturer's instruction, direction of the Engineer-in-charge including all type of civil works, fixing and securing accessories etc. all complete. (All cables are of Eastern/ BRB/ Paradise Cable / BBS)				
	1) 1C - 10rm - NYY	30	M	124	3,720
	2) 1C - 16rm - NYY	270	M	175	47,250
	3) 1C - 25rm - NYY	50	M	252	12,600
	4) 1C - 35rm - NYY	60	M	334	20,040
	5) 1C - 50rm - NYY	120	M	465	55,800
	6) 1C - 70rm - NYY	30	M	636	19,080
	7) 1C - 95rm - NYY	30	M	845	25,350

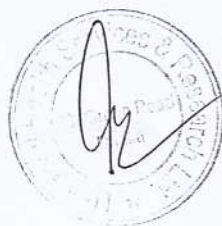
Sl No	Description of Items	Qty.	Unit	Rate in Taka	Amount in Taka
8)	1C – 120rm – NYY	100	M	1,059	105,900
9)	1C – 150rm – NYY	50	M	1,319	65,950
10)	1C – 185rm – NYY	230	M	1,609	370,070
11)	1C – 240rm – NYY	350	M	2,058	720,300
12)	3½C – 25sm/16rm – NYY	40	M	1,295	51,800
13)	3½C – 300sm/180rm – NYY	50	M	10,170	508,500
14)	4C – 35rm – NYY	60	M	1,395	83,700
15)	4C – 120rm – NYY	40	M	4,337	173,480
16)	4C – 185rm – NYY	60	M	6,596	395,760
17)	1C – 10rm – BYA	10	M	99	990
18)	1C – 16rm – BYA	60	M	152	9,120
19)	1C – 25rm – BYA	15	M	221	3,315
20)	1C – 35rm – BYA	20	M	301	6,020
21)	1C – 50rm – BYA	30	M	421	12,630
22)	1C – 70rm – BYA	20	M	577	11,540
23)	1C – 95rm – BYA	75	M	773	57,975
24)	1C – 120rm – BYA	60	M	976	58,560
25)	1C – 150rm – BYA	20	M	1,220	24,400
26)	1C – 240rm – BYA	20	M	1,914	38,280



SI No	Description of Items	Qty	Unit	Rate in Taka	Amount in Taka
03	EARTING: Supplying & construction of earthing system by boring 1.5" dia & 60'-0" long G.I pipe by tube well sinking method up to its full length and placing 2x2 SWG H.D.B.C. Inside the pipe as earth electrode & then laying 1C-95 mm ² - insulated cable up to main earth point within the sub-station including construction of 2'-6" x 2'-6" x 2'-6" R.C.C inspection pit with C.I cover as per standard practice, manufacturer's instruction, direction of the Engineer-in-charge including all type of civil works, fixing and securing accessories etc. all complete.	08 NOS	SET	61,988	495,904
04	CABLE DUCT: Supplying & fitting of cable duct with cover fabricated from pre-punched 16 SWG Laminated M.S sheet steel including coupler, bracket, support, hanging rod on wall, ceiling or floor including all consumable hardware & accessories including all type of civil works etc complete. 1) 100mm x 500mm 2) 100mm x 400mm 3) 100mm x 200mm 4) 75mm x 150mm	10 10 10 10	M M M M	3,256 2,856 1,771 1,542	32,560 28,560 17,710 15,420
05	P.V.C-TRAY/ CHANNEL: Supplying & fixing of PVC cable tray/ channel with cover including all fixing hardware as per standard practice, manufacturer's instruction, direction of the Engineer-in-charge including all type of civil works, fixing and securing accessories etc. all complete. 1) 4" x 4" 2) 2" x 2"	20 30	M M	717 310	14,340 9,300
06	Obtaining Permission from Licensing Board .	1 Lot	L/S	216,946	216,946

TOTAL = 76,140,517

In-Words: Tk. (Seven Crore Sixty One Lac Forty Thousand Five Hundred Seventeen) Only.



LOT-2

SCHEDULE OF ITEMS, QUANTITY, UNIT, RATE AND AMOUNT FOR OBTAINING 3200-KW LOAD SANCTION & CONNECTION FROM DPDC INCLUDING SECURITY DEPOSIT, COST OF RMU, CABLE & CABLE LAYING, ROAD CUTTING CHARGES AND ALL OTHER MISCELLANEOUS EXPENSES FOR UNIVERSAL HEALTH SERVICES & RESEARCH LTD.

SI No	Description of Items	Qty.	Unit	Rate in TK	Amount TK
1	Obtaining 3200KW Load Sanction & Connection from DPDC from Science Lab Sub-station.				
	a) Security Deposit money for 3200KW,	1	L/S	7,050,748	7,050,748
	b) Cost of R.M.U	1	L/S	2,494,880	2,494,880
	c) HT. Metering Panel	1	L/S	379,656	379,656
	d) 3C-11KV HT. Cable with trench cutting & Laying	500	Mtr.	11,746	5,873,000
	e) Municipal Road Cutting Permission fee	1	L/S	216,946	216,946
	f) All incidental Miscellaneous Expenses to complete the item of work to the satisfaction of Authority.	1	L/S	3,292,505	3,292,505
	The price includes cost of R.M.U, VCB, Metering Panel, HT cables with installation, testing, commissioning. If any Item will not require, cost shall be deducted from quoted amount.				
TOTAL=					1,93,07,735

In Words: Tk. (One Crore Ninety Three Lac Seven Thousand Seven Hundred Thirty Five) Only.

COST ABSTRACT:

TOTAL AMOUNT : FOR LOT-1 = 76, 140, 517

TOTAL AMOUNT : FOR LOT-2 = 19, 307, 735

GRAND TOTAL = 95, 448, 252

AFTER DISCOUNT = 93, 900, 000

In Word: (Nine Crore Thirty Nine Lac) Only.

