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### DEED OF AGREEMENT

THIS DEED OF AGREEMENT made this day the 16<sup>th</sup> October 2016, **CHRISTIANERA.**

### BETWEEN

Engr. K. M. Mostafijur Rahman, Managing Director, Theme Engineers Ltd. Its Corporate Office Address House No #: 06/11, Block # E, Lalmatia, Dhaka-1207, Bangladesh hereinafter referred to as the "**BUYER**" which expression where the context so admits its successors in interest and assignees of the **FIRST PARTY/"BUYER"**.

### AND

Engr. Mohibul Haque, Sr. Manager, Cross-world Power Limited, Substation & Generator Company. Its head office address at House# 06, Road# 92, Gulshan-2, Dhaka-1212, Bangladesh, hereinafter referred to as the "**Contractor**" which expression, where the context so admits shall include its successors in interest and assignees of the **SECOND PARTY/CONTRACTOR**.

### WHEREAS

The first party intend to purchase 1(One) set of Electric Sub-Station for their Project at Theme Cosanova, Chittagong. The Buyer have therefore sought offer for the supply, Installation, Testing & Commissioning of 1 (One) set 200 KVA Sub-Station as per technical specifications in Annexure-1.

### Part-1

**NOW THIS DEED WITNESSETH and the parties hereto mutually agreed and declare as follows:-**

#### **Equipments: Part-A**

Sl. No.	Descriptions	Qty.	Unit	Total Price
01	Lightning Arrester (LA)	1	Set	8,000.00
02	Drop Out Fuse (DOF)	1	Set	7,000.00
03	200KVA OIL Immersed Transformer	1	No.	3,80,000.00
04	LT Switch gear	1	No.	1,30,000.00
05	100 KVAR Auto/Manual PFI Plant	1	No.	1,25,000.00
07	Delivery , Installation & commissioning	1	Job	15,000.00
Total Taka=				6,65,000.00
Discount=				42,240.00
Sub Total Taka=				6,22,760.00

#### **Installation: Part-B**

Sl. No.	Descriptions	Qty.	Unit	Total Price
01	Cable Stand HT/LT	1	Set	2,500.00
02	Earthing Bar	2	Nos	3,000.00
03	Crossarms	1	No.	1,500.00
04	Cable Lugs	1	Lot	3,000.00
Total Taka=				10,000.00
Discount=				650.00
Sub Total Taka=				9,350.00



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**PDB File Formalities & Deposit for 200KVA Sub-Station: Part-C**

Sl. No	Descriptions	Qty.	Unit	Total Price
01	PDB Miscellaneous for Load Sanction (130kw)	1	Job	156,000.00
02	Estimated cost for CT/PT Meter Collection & Installation	1	Job	60,000.00
03	Line Shout Down & Energy commissioning	1	Job	15,000.00
04	Metering Commissioning with PVC, PIB Tape Nut bolt socket, Etc.	1	Job	25,000.00
05	Cost for Sub Meter Box (3'-6"H x 2'6"W x 8"D)	1	No.	28,000.00
06	Earthing for Sub-Station ( 60'-70')	4	Nos	40,000.00
07	Electrical Licensing Board permission (ELB)	1	Job	45,000.00
Total Taka=				3,69,000.00
Discount=				23,300.00
Sub Total Taka=				3,45,700.00

**Cable & Solar: Part-D**

Sl. No.	Descriptions	Qty.	Unit	Total Price
01	11kV HT Cable 3x35rm	35	Mtr(app)	88,410.00
01	11kV HT Cable 3x35rm	40	Mtr(app)	40,120.00
01	11kV HT Cable 3x35rm	60	Mtr(app)	7,560.00
02	Solar	1	Job	300,000.00
Total Taka=				4,36,090.00
Discount=				27,500.00
Sub Total Taka=				4,08,590.00

**Bank Deposit: Part-E**

Sl. No.	Descriptions	Qty.	Unit	Total Price
01	PDB Bank Deposit	130	Kw	78,000.00
02	Accessories Deposit	1	Job	150,000.00
Total Taka=				228,000.00
Discount=				14,400.00
Sub Total Taka=				2,13,600.00
Grand Total Taka (Part-A + B + C + D+E)=				1,600,000.00

Taka in words: - Sixteen lac only.

**PART-2  
WARRENTY & SERVICES**

**Warranty :** The supplier should Provide full warranty & guarantee of the equipment for 2 Years from the date of delivery covering repair/replacement of any spare parts, maintenance servicing of equipment etc The warranty does not cover natural clematis mishandling operation, overload etc.

**PART-3**



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#### COMPLETION OF WORKS

**Completion Period:** The whole works i.e Supplying & Installation to the equipment should be completed by 90-120 days from the signing agreement.

#### PART-4 INSTALLATION & RUNNING

**Installation & Running :** The supplier should supply, install and run the equipment at his responsibilities HT & LT cables, all accessories, solar, energy meters, Load sanction formalities, demand note & Road cutting permission (If Required) etc and buyer will provide the specified Sub-Station room, all civil works.

#### PART-5 PAYMENT SCHEDULE

1. 30% advance Payment of part "A" will be made within three days after signing Agreement.
2. 50% Payment of part "A" will be made within three days after full ready to supply the equipment & satisfactory inspection report from buyer's technical team.
3. 10% Payment of part "A" will be made after Completion of ELB Permission.
4. Rest 10% Payment of part "A" will be made within 6 (Six) month after completion of all works.
5. The amounts of Part B+C+D+E will be paid as proportionately as soon as the materials / tasks are supplied / finished.

SIGNED AND ACCEPTED in duplicate on 16<sup>th</sup> October, 2016 in Dhaka, Bangladesh

For and on behalf of THE 1<sup>ST</sup> PARTY

Engr. K.M. Mostafijur Rahman  
Managing Director  
Theme Real Estate Ltd.  
House # 6/11, Block # E  
Lalmatia, Dhaka-1207.

For and on behalf of THE 2<sup>ND</sup> PARTY

Engr. Mohibul Hoque  
Sr. Manager  
Cross-world Power Ltd  
House # NE (0) 06, Road # 92,  
Ghulshan-2, Dhaka-1212

Witness:

1.

2.

Witness:

18/10/16



## Annexure-1

### 200kVA SUB-STATION FOR YOUR PROJECT : 01 Set.

01) 11kV Drop-Out Fuse : 1 Set.

11kV Drop -Out Fuse of following specifications :-

Rated voltage (nominal)	: 11kV
Rated max. voltage	: 15kV
Rated current (conti.) RMS	: 25A
Interrupt current RMS	: 10kA
Rated frequency	: 50Hz
BIL	: 75kV
Withstand test voltage :	
Dry 1 Min.	: 33kV
Wet, 10 sec	: 30kV

02) Lighting Arrestor : 1 Set.

11kV Lighting Arrestor of following specification :-

Rated voltage (Nominal)	: 9kV
Rated system voltage	: 12kV
Frequency	: 50Hz
Minimum spark over (Rms)	: 14kV
Maximum spark over (Rms)	: 40kV
Max. impulse spark (crest)	: 45kV
Withstand voltage (Power frequency 1 Min. dry)	: 28kV
Withstand voltage (Power frequency 10 sec. wet)	: 24kV
Nominal discharge current	: 5kA
Impulse current withstand	: 55kA

03) 200KVA Oil Type TRANSFORMER : 1 No.

Three phased transformers ground mounted, oil immersed, with standard accessories. Indoor use. Routine tests and first filling oil included. Design, manufacturing, routine tests & tolerances according to IEC 76 standards.

Standard fittings: 4 flat bi-directional rollers.  
2 lifting lugs



2 earthing points.  
1 rating plate(on HV side)  
1 Oil Conservator  
1 Oil Level gauge  
1 Dial type indicator  
1 Draining device  
1 Dial type thermometer

HV connections : 3 porcelain bushing  
LV connections : 4 porcelain bushing,  
Rated power in kVA  
System voltage  
Frequency  
Primary voltage  
Secondary voltage

: 150 kVA  
: 12 kV  
: 50Hz  
: 11000V  
: 415V  
:  $\pm 2.5\%$ ,  
:  $\pm 5\%$   
: 75 kV  
: 28 kV  
: Dyn11  
: 40  
: 1000  
: 65/55  
: 435W  
: 2880W  
: 4%  
: ONAN

HV tapping by links(off circuit) in  
HV impulse kV peak in kV  
Power frequency kV rms  
Vector group  
Max. ambient temp. in Deg. C  
Altitude lower than in meter  
Temp. rise in winding/oil in Deg. C  
No load loss  
Load loss at 75 Deg. C  
Impedance voltage  
Cooling System

**Brand:** CPL

**Origin:** Core: M4 Grade Silicon steel sheet USA/ Korea.

Coil : Copper, HV/LV wires BRB/ Gazi, Bangladesh.


Oil : Hyrax, Malaysia/Sabita. India.

Insulated materials and fittings, Italy./Weidman Switzerland.

Only assembly and Oil Filling will be done at Cross World Factory Dhaka. Also all routine tests after the assembly & Oil Filling will at Cross World works.

**04) LT SWITCHGEAR : 1 Set.**

16SWG Sheet steel fabricated, floor mounting, tropicalized design, indoor type, Powder Coated, low tension switchgear for 3 phase, 4 wire, 50 Hz.380/415V AC system & shall be supplied complete TP + N busbars



suitably sized & properly insulated arrange to withstand & short current of 50kA for 1 sec. The boards are designed & constructed in accordance with BS5486/IEC439.

Busbars and other live parts are spaced and insulated in accordance with European standards IEC 158, UTE C 20 - - 040, VDE - C 110 for 660V.

All MCCB/MCB units & panel boards shall fully comply regulations of the 15th edition IEE wiring regulation for isolation and switching.

**The panel shall comprise of the folowing & Powder Coated.**

**INCOMING :**

- 1 400A, TP, 65KA, 415V, 50 Hz, MCCB with adjustable overcurrent and short circuit protection .  
**Brand: Hyundai, Korea.**
- 3 Current transformer ratio : 400/5A with suitable accuracy and burden.
- 1 Ammeter scaled (0 - 400A) with selector switch.
- 1 Voltmeter scaled (0 - 600V) with selector switch.
- 3 Phase indicating lamp RED/YELLOW/BLUE.
- 1 TP MCB for control fuse.
- 1 Enclosure TP+N Busbar

**OUTGOING :**

- 24 40A DP, 6kA, 415V, 50Hz, (MCB) with thermal overload & magnetic short circuit protection **(For Flat)**  
**Brand: Hyundai, Korea.**
- 1 100A, TP, 25KA, 415V, 50Hz, (MCCB) with thermal overload & magnetic short circuit protection **(For Common)**  
**Brand: Hyundai, Korea.**
- 1 63A TP, 6kA, 415V, 50Hz, (MCB) with thermal overload & magnetic short circuit protection **(For Spare)**  
**Brand: Hyundai, Korea.**
- 1 200A, TP, 25KA, 415V, 50Hz, (MCCB) with thermal overload & magnetic short circuit protection **(For PFI)**  
**Brand: Hyundai, Korea.**



- 1 Set TP+N busbar suitably sized.

05) 100kVAR AUTO/MANUAL PFI PLANT : 1 Set.

Automatic power factor improvement plant of 100 kVAR in 6 steps. Sheet steel fabricated, floor mounting, tropicalized design, **powder coated**, indoor type, PFI Plant for 3 phase, 4 wire, 50 Hz, 380/415V AC system & shall be supplied complete TP + N busbars suitably sized & properly insulated arrange to withstand & short current of 50kA for 1 sec.

The boards are designed & constructed in accordance with BS5486/IEC439.

Busbars and other live parts are spaced and insulated in accordance with European standards IEC 158, UTE C 20 - - 040, VDE - C 110 for 660V.

All panel boards shall fully comply regulations of the 15th edition IEE wiring regulation for isolation & switching

**The panel shall comprise of :**

- 1 5 kVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor(Fixed).  
**Brand: Frako, Germany.**
- 1 2.5 kVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor  
**Brand: Frako, Germany.**
- 1 2.5 kVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor  
**Brand: Frako, Germany.**
- 2 10 kVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor  
**Brand: Frako, Germany.**
- 3 25 kVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor  
**Brand: Frako, Germany.**
- 1 12A, triple phase air contactor for 2.5kVAr capacitor.  
**Brand: Hyundai, Korea.**

*[Handwritten signature]*

- 2 25A, triple phase air contactor for 10kVAR capacitor.  
**Brand: Hyundai, Korea.**
- 3 50A, triple phase air contactor for 25kVAR capacitor.  
**Brand: Hyundai, Korea.**
- 21 HRC Fuses with base of adequate rating.
- 6 Start pushbutton.
- 6 Stop pushbutton.
- 6 Indicating lamp.
- 1 Auto manual selector switch with adder block.
- 2 Control relay with base.
- 3 Fuse carrier with fuse for control circuit.
- 1 6 Steps reactive power regulator which performs the switching of capacity bank in automatic power factor correction equipments depending on changes of reactive power complete with p.f. luminescent indicators and digital power factor meter.  
**Brand: Beluk/Epcos, Germany**
- 1 200/5A, CT for PFI
- 1 Set TP+N busbar suitably sized.

**Cable**

1	11kV H.T Cable 3x35 rm XLPE	35	Mtr
2	L.T Cable 120rm (NYY)	40	Mtr
3	Earthing Cable 16rm (BYA)	60	Mtr

**Solar**

1	Solar	1	Job
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**Note: Cable measurement should be required on site**