

SANMAR PROPERTIES LIMITED

Delivery Address

Hyde Park

Contact: Rafiqul Islam Mob: 01708-150728 House # 109-C.Road # 4,Khulshi R/A, Chittagong,

CHITTAGONG, Bangladesh - 4225

Purchase Order

Sanmar Ocean City(7th Floor), 997 CDA Avenue, East Nasirabad, Chittagong

Name of Supplier: Cross World Power Ltd.

Address:Plot#1/B,Road-90,Gulshan-2,Dhaka, Bangladesh, DHAKA, Dhaka-N/A

Contact Name: Mohammad Nurul Alam

Contact No : 01755514716 Email ID

: info@cross-w orld.com

Purchase Order No: PO/SPL/HYPA/HYPA/220

PO Date: Dec 06, 2020

Project Sub-Project Hyde Park Hyde Park		ct In	······		Ind	Indent Date		
		IN			Sep	Sep 11, 2019		
Material Code	Material Des	cription	Brand/Specification	Origin	Quantit	у ООМ		Total Amount(BDT)
S630K	SUBSTATION 630 KVA	\		Material_Remarks].	1,00	0 Set	2,000,000.00	2,000,000.00
Material	Cost					000000000000000000000000000000000000000		2,000,000.00
Handling	& Loading Charges							0.00
Freight Cl	harges						A	0.00
Other Cha	arges			Harris Miller Day - Land Control of the			499-H-1011-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	0.00
Total Ma	terial Cost (BDT)						***************************************	2,000,000.00
Grand To	otal (In Words) : BDT	Two million	only				17 111111111111111111	

General Terms & Conditions :-

- 1. The material shall be inspected by our engineer in charge at factory or site and any material rejected has to be replaced by you.
- 2. Bill will be submitted at our head office along with a copy of Purchase Order & delivery challan duly stamped & signed by our Store In-

3. Please Quote P/O number (PO/SPL/HYPA/HYPA/220) on Invoice & Delivery Challan.

Other Terms & Conditions	
P.O. Validity	: 0 Days
Payment Terms	1
Credit Period	: 0 Days
Freight	: Inclusive
Taxes	: Inclusive
Packing & Forw arding Details	: Material should be packed properly in standard packing to avoid any damage in transit.
Retention % & Amount	: 0.00, 0.00
Carring:	: Up To Site
General Remarks	: SUBSTATION 630 KVA: Add Remarks AS per attach CS

For SANMAR PROPERTIES LIMITED

MashukHuck

Accepted all above by Supplier

UZZai Kurner Das

PAYMENT TERMS

© 30% ADVANCE

D 40% BEFORE DELIVERY (AFTERINSPEC
TION FACTORY)

30% AFTER DELIVERY, INSTALLATION, O COMMISSIONING



Ref : CWPL/S5/SG/201018-01 Date: 18.10.2020

To The Managing Director Sanmar Properties Limited Guishan 2,Dhaka

FINANCIAL OFFER

Sub: Offer for supply, installation, testing & commissioning of 11/.415KV, 630 KVA SS

BILL OF QUANTITY OF 630 KVA SUBSTATION SANMAR GRANDE

,,,SI.	Description of the Item	· Unit	Qty	Unit	, Total Price
	3	•		Price in	In BOT
~' ∕-1. '≤		7. 3.	74 .	1 - 1	7
_ a	MV Switchgear for Incoming(11KV)	Each	î	225,000	225,000
1.	Supply, installation, testing & commissioning at site of 11			<u> </u>	
	KV switchgear as		<u> </u>	1	,
1.1	11 KV SWITCHGEAR				
_	Incoming (1 No.)			† 	
	11KV, 630A, 350MVA, triple pole spring charged load break	/	 		
i)	switch (LBS) with fuse.				
\(i)/	3 Nos. double wound, dual ratio C.T.'s 300/125/5+5	T			
_~/	Core 1-15VA burden class 0.5 for metering.			-	
	Core 2-15VA burden class 5P10 for protection				
\iii)	3 Nos, line PT 11KV / $\sqrt{3}$, 110V / $\sqrt{3}$, 100VA class 1.0 epoxy cast				
iv)	IDMT relay with 2 O/C and 1 E/F element with hand reset contacts				
	& indicator				
	1 No. digital voltmeter (0-12 KV) with selector switch (96mm x				
vi)	1 No. digital ammeter (0-250 Amp) with selector switch (96mm x			7	· -
	1 No. electronic digital type energy analyzer having 30 days			T .	
vil)	memory and parameters of KW, KWH, KVAH, KVARH power		1	i - i	
	factor, frequency etc.(energy		ļ		
VIII)	1 No. breaker control switch			T	
ix)	1 set of following Indicating lamps				
	-Red, Yellow and Blue for phase Indication			1	
	- Amber for trip Indication				
	- Red `ON' Green `OFF'				
_	- Spring charge Indication				
	- Auto trip Indication				
	1 No. hooter				
xi)	8-window annunciation panel with audio and visual Indicator.				
xii) xiii)	1 Set of fuses, ferrules, wiring etc. as required.				
XIII)	Suitable arrangement for termination of 1 No. 3 core 300 Sqmm		<u> </u>		
	11 KV XLPE	<u> </u>			
 	Bus Bars				
	11KV, 1900 amp air insulated, encapsulated copper bus bars.			1	
L. 32.5	APPACATE APPACATION OF THE PROPERTY OF THE PARTY OF THE P	Kel A Kas	43. W. A.12	\$6.000 B0520	
b	11/0.415 KV TRANSFORMER Oil emmersed	Set	1	780,000	780,000

·	·		1		
		·			- ch
31,	Description of the Item:	🗊 Unit 😗	Qty :	Acres 5	
		-3 53 € 3	29.24人。6	磁温导动发展	最高的。"Y
	Supply, installation, testing & commissioning of 630 KVA capacity				3 - 1,000
•				Į ,	Į l
!	11 KV/0.415 KV, 3 phase, 50 Hz copper wound step down,				i i
	Delta/Star, OIL Cooled Indoor Type transformers, vector group		l		!
ł					l 1
İ	Dyn-11. Off load Tap Changer arrangements in steps of 2.5%		ì		l .
ł	with range from +5% to -10%, bi-directional roller, diagram,				
	rating plate, winding temperature indicator with Alarm & Trip		t		
			ĺ		
1	wiring, marshalling box, lifting lugs and weather proof HT cable		1	ł	
	box, wiring for interlocking with the HT breakers as per		1	ł	
	specifications. Surge protection to be provided at HT side. LT				
)	
i .	Cable box disconnecting chamber minimum 8mm thick non				
	magnetic gland plate etc. complete as per specification and as per			Y	
i -				ľ	
	IEC60076/ANSI/NEMA/BNBC/ Local Standards			ł	
	(The transformer shall be subject to all test specified in				
	specification and test certificates shall be produced).				
	apedication and test currences shall be produced.]		
	<u> </u>	<u> </u>			
1	BRAND:		<u> </u>		
	Temp of cooling: ONAN		,		
—	Temp rise @ 50degC ambient in winding by resistance :	t	 		
		·	 		· · · · · · · · · · · · · · · · · · ·
L	Impedance : 6 %	L	L	L	l
	Terminal arrangement (HV): 3C x 95 Sqmm 11kV				1
,	Termina) arrangement (LV) : 2000 Amps TPN sandwich		•	_	
1		ł	l	:	
└	construction Copper				
2404 *	630 KVA Transformer as described above and as per technical	1	l .	1	
F .	specifications .				l '
	John-Mediano I				
ļ			<u> </u>		
L	Transformer winding with all terminals must be Copper.		L		
5.11-31-703	DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR	建 工作的	A POST OF THE	VIEW PORT	THE PARTY OF STREET
C	Power Factor Panel(PPI): 380KVAR	Set	1	360,000;	360,000
				15 77	
	Supply, installation, testing & commissioning of 380 KVAR		ļ. ·	1	
,			· ·	7 1	
	capacitor bank		•		
	capacitor bank. Type PFI unit accordence to the following parameters.		•		
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1	capacitor bank, type PFI unit accordence to the following parameters.				
- ! -	capacitor bank, type PFI unit accordence to the following parameters. Incomming One (1) No. 600 amps MCCB (adjustable) with built in				· · · · · · · · · · · · · · · · · · ·
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Plot 1/B, Road 90, Gulshan 2, Dhaka 1212, Bangladesh (8802) 8811858, 8816528, 9891442; Fac (8802) 8816205; E-mail: Info@cross-world.com



One (1) No. 12 Steps Automatic Power Factor Correction Relay with 4000/S 15 VA CL : 1 CT's W A CL : 1 CT's W Protection: Over voltage Protection ON/OPF/Phase indication & digital dual energy meter with RS 485 port shall be provided on each outgoing except capacitor feeders. V Bus Bars: B00A, TPN Copper bus bars suitable for 415V, 50Hz with heat shrinkable colour coded sleeves. Suitable rating semiconductor fuse for group of capacitor banks with thyristor having suitable capacity to carry the current with necessary control and firing card with proper wirling. 4 Nos 415V, 750A hard drawn electrolytic capper busbar. 1 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge coil for connection directly with line through fuse. 3 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty.	The second		1200 120 120 120 120		Management of the state of the	A 54 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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banks with thyristor having suitable capacity to carry the current with necessary control and firing card with proper wirling. 4 Nos. 415V, 750A hard drawn electrolytic copper busbar. 1 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge coil for connection directly with line through fuse. 3 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 7 Jane (Main Main Main Main Main Main Main Main		colour coded sleeves.				
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wiring, 4 Nos 415V, 750A hard drawn electrolytic copper busbar. 1 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge coil for connection directly with line through fuse. 3 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordance to following accessories and parameters. 6 fabricated as floor mounted, powder coated with 155WG sheet 1000 amps 3 Pole molded case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One FOr Genarator and will be Mechanical and Electrical interlock system. Outgoing Circuit Breaker: 0 ne(01) unit of 630amps,TP-MCCB-Adjustable for BP-I one(01) unit of 630amps,TP-MCCB-Adjustable for B-2, Utility DB Each 1 0 ne(01) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 0 ne(01) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare Each 1 1 No (02) unit of 30amps,TP-MCCB-Nob Adjustable for SbB & Spare Each 1		banks with thyristor having suitable capacity to carry the		y-		
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1 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge coil for connection directly with line through fuse. 3 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 20 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) 5 Usphy, installation, testing & commissioning of locally fabricated in accordence to following accessories and parameters. 6 abricated as floor mounted, powder coated with 165WG sheet Incomming circuit Breaker: 1000 amps 3 Pole molted case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarotor and will be Machanical and Electrical interlock system. Outgoing Circuit Breaker: 0ne(01) unit of 630amps,TP-MCCB-Adjustable for PFI 5 Each 5 One(01) unit of 320amps,TP-MCCB-Adjustable for SbB & Spare 6 Den(01) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 7 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 8 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 32amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 32amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 32amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,T		wirlng.				*
1 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge coil for connection directly with line through fuse. 3 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 20 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) 5 Usphy, installation, testing & commissioning of locally fabricated in accordence to following accessories and parameters. 6 abricated as floor mounted, powder coated with 165WG sheet Incomming circuit Breaker: 1000 amps 3 Pole molted case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarotor and will be Machanical and Electrical interlock system. Outgoing Circuit Breaker: 0ne(01) unit of 630amps,TP-MCCB-Adjustable for PFI 5 Each 5 One(01) unit of 320amps,TP-MCCB-Adjustable for SbB & Spare 6 Den(01) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 7 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 8 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 32amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 100amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 32amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 32amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,TP-MCCB-Adjustable for SbB & Spare 9 Four (04) unit of 30amps,T		4 Nos 415V, 750A hard drawn electrolytic copper busbar.				
with built in /separate discharge coil for connection directly with line through fuse. 3 No 415V, 12.5 KVAR, SO Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MATN) Set 1 590,000 590,00 Supply, installation, testing & commissioning of locally fabricated LT/LY panie inaccordence to following accessories and parameters. 7 abricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1000 amps 3 Pole molided case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Mechanical and Electrical interiock system. Each Outgoing Circuit Breaker: 0 outgoing Circuit Breaker: 0 ne(01) unit of 320amps, TP-MCCB-Adjustable for B-PI Each 1 0 ne(01) unit of 320amps, TP-MCCB-Adjustable for Spare Each 1 0 ne(01) unit of 135amps, TP-MCCB-Adjustable for Spare Each 1 Flour (04) unit of 435amps, TP-MCCB-Adjustable for Spare Each 1 1 mo (02) unit of 323mps, TP-MCCB-Adjustable for Spare Each 1 1 mo (02) unit of 323mps, TP-MCCB-Adjustable for Spare Each 1 1 mo (03) unit of 125amps, TP-MCCB-Adjustable for Spare Each 1 1 mo (03) unit of 125amps, TP-MCCB-Adjustable for Spare Each 1 1 mo (04) unit of 100 Samps, TP-MCCB-Adjustable for Spare Each 1 1 mo (05) unit of 100 Samps, TP-MCCB-Adjustable for Spare Each 1 1 mo (05) unit of 100 Samps, TP-MCC						
Inne through fuse. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1000 amps 3 Pole molded case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Mechanical and Electrical interlock system. Outgoing Circuit Breaker: 0ne(01) unit of 303mps; TP-MCCB-Adjustable for B-2, Utility DB Each 1 noe(01) unit of 320amps; TP-MCCB-Adjustable for B-2, Utility DB Each 1 noe(01) unit of 320amps; TP-MCCB-Adjustable for B-1, Utility DB Each 1 noe(01) unit of 125amps; TP-MCCB-Adjustable for B-1, Utility DB Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for B-1, Utility DB Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for B-1, Utility DB Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for B-1, Utility DB Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable for BDB B Spare Each 1 noe(01) unit of 30amps; TP-MCCB-Adjustable Spare Each 1 noe(01) unit		1 No 415V, 12.5 KVAR, 50 Hz TP power capacitor bank	•			
3 No415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos415V, 20 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LTPANEL (MATN) Supply, installation, testing & commissioning of locally fabricated LT/LY panle inaccordence to following accessories and parameters. 7 Incomming Circuit Breaker: 1000 amps 3 Pole molided case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Machanical and Electrical interlock system. 8 Outgoing Circuit Breaker: 10ne(01) unit of 320amps, TP-MCCB-Adjustable for B-2, Utility DB Each 1 (2000) and 10 (2000)						
with built in / separate discharge resistor. 3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT FANEL (MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panle inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1000 amps 3 Pole molded case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Mechanical and Electrical interlock system. Outgoing Circuit Breaker: 0ne(01) unit of 30amps; TP-MCCB-Adjustable for B-2, Utility DB Each 1 ne(01) unit of 30amps; TP-MCCB-Adjustable for B-2, Utility DB Each 1 ne(01) unit of 30amps; TP-MCCB-Adjustable for Spare Each 1 ne(01) unit of 125amps; TP-MCCB-Adjustable for Spare Each 1 ne(01) unit of 30amps; TP-MCCB-Adjustable for Spare Each 1 ne(01) unit of 30amps; TP-MCCB-Adjustable for Spare Each 1 ne(01) unit of 30amps; TP-MCCB-Adjustable for Spare Each 1 nech 1	<u> </u>					<u> </u>
3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL(MAIN) 5 Set 1 S90,000 S90,000 Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordence to following accessories and parameters. 6 labricated as floor mounted, powder coated with 165WG sheet 1000 amps 3 Pole molded case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PD8 & One For Genarator and will be Mechanical and Electrical interlock system. 6 Lieutrical interlock system. 6 Lieutrical interlock system. 7 Lieutrical interlock system. 8 Each 9 Lieutrical interlock system. 8 Each 1 One(01) unit of 630amps,TP-MCCB-Adjustable for PS-2. Utility DB Each 1 One(01) unit of 100amps,TP-MCCB-Adjustable for Str Floor 1 Done(01) unit of 100amps,TP-MCCB-Adjustable for Str Floor 1 Done(01) unit of 100amps,TP-MCCB-Adjustable for Str Floor 1 Done(01) unit of 100amps,TP-MCCB-for Gr. Mezz Floor and Each 1 1 Done(01) unit of 100amps,TP-MCCB-for Gr. Mezz Floor and Each 1 1 Done(02) unit of 23amps,STP-MCCB-for Gr. Mezz Floor and Each 1 1 Done(02) unit of 23amps,STP-MCCB-for Gr. Mezz Floor and Each 2 1 LTPANEL Supply, installation, testing & commissioning of locally fa						
in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordence to following accessories and parameters. 1 abricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1 000 amps 3 Pole molided case circuit breaker (MCCB) with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Machanical and Electrical interlock system. Outgoing Circuit Breaker: 0 ne(01) unit of 320amps, TP-MCCB-Adjustable for PFI Each 1 0 ne(01) unit of 320amps, TP-MCCB-Adjustable for B-2, Utility DB Each 1 Three(03) unit of 320amps, TP-MCCB-Adjustable for Sth Floor Each 1 0 ne(01) unit of 132mps, TP-MCCB-Adjustable for Sth Floor Each 1 0 ne(01) unit of 323mps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (02) unit of 323mps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 40amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 43amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 43amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 23amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 23amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 40amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Fl		with built in / separate discharge resistor.			l	
in / separate discharge resistor. 5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordence to following accessories and parameters. 1 abricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1 000 amps 3 Pole molided case circuit breaker (MCCB) with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Machanical and Electrical interlock system. Outgoing Circuit Breaker: 0 ne(01) unit of 320amps, TP-MCCB-Adjustable for PFI Each 1 0 ne(01) unit of 320amps, TP-MCCB-Adjustable for B-2, Utility DB Each 1 Three(03) unit of 320amps, TP-MCCB-Adjustable for Sth Floor Each 1 0 ne(01) unit of 132mps, TP-MCCB-Adjustable for Sth Floor Each 1 0 ne(01) unit of 323mps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (02) unit of 323mps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 40amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 43amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 43amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 23amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 23amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (04) unit of 40amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Floor Each 1 1 more (05) unit of 32amps, TP-MCCB-Adjustable for Sth Fl		3 No 415V, 25 KVAR, 50 Hz TP power capacitor bank with built			i	
5 Nos 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in /separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1000 amps 3 Pole molded case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Mechanical and Electrical interlock system. Outgoing Circuit Breaker: One(01) unit of 320amps, TP-MCCB-Adjustable for PFI One(01) unit of 320amps, TP-MCCB-Adjustable for B-2, Utility DB Each 1 Three(03) unit of 320amps, TP-MCCB-Adjustable for She Floor One(01) unit of 125amps, TP-MCCB-Adjustable for She Floor Eleven(11) unit of 53amps, TP-MCCB-Adjustable for She Floor Eleven(11) unit of 53amps, TP-MCCB-For Basement. Four (04) unit of 40amps, TP-MCCB- for Grak Mezz Floor and Each 4 Two (02) unit of 32mps, SP-MCCB- for Grak Mezz Floor and Each 4 Two (02) unit of 32mps, SP-MCB- for Control Panel. Each 2 1200amps busber sets with accessories. EELT PANEL Set 1 360,000 360,00 Supply, installation, testing & commissioning of locally fabricated ELT panle inaccordence to following accessories and parameters. One(01) unit of 125amp TP-C.O.5 One(01) unit of 100amp TP-C.O.5 One(01) unit of 100amp TP-C.O.5 Set 12					l	
with built in /separate discharge resistor. 3 No 415V, 20 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 3 No 415V, 40 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos 415V, 80 Amps, 50 Hz auto TP magnetic contactor with AC3 duty. 6 LT PANEL (MAIN) Supply, installation, testing & commissioning of locally fabricated LT/LV panie inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 165WG sheet Incomming Circuit Breaker: 1000 amps 3 Pole molided case circuit breaker (MCCB)with built in microprocessor based release unit for overcurrent, short circuit. One for PDB & One For Genarator and will be Mechanical and Electrical interlock system. Outgoing Circuit Breaker: One(01) unit of 303amps, TP-MCCB-Adjustable for PFI Dne(01) unit of 303amps, TP-MCCB-Adjustable for SPare Each Inrec(03) unit of 320amps, TP-MCCB-Adjustable for SPare Each One(01) unit of 132mps, TP-MCCB-Adjustable for SPare Each Inrec(03) unit of 132mps, TP-MCCB-Adjustable for SPare Each Inve (02) unit of 153mps, TP-MCCB-Adjustable for SPare Each Inve (02) unit of 153mps, TP-MCCB-Adjustable for SPare Each Inve (02) unit of 153mps, TP-MCCB-Adjustable for SPare Each Inve (02) unit of 153mps, TP-MCCB-Adjustable for SPare Each Inve (02) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (02) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (02) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (02) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (02) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (02) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (03) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (04) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (05) unit of 153mps, TP-MCCB-For Gr.& Mezz Floor and Each Inve (06) unit of 153mps, TP-MCCB-For Basement. Each Inve (07) unit of 153mps, TP-MCCB-For Basement. Each Inve (17) unit of 153mps, TP-MCCB-For Basement. Each Inve (17) unit of 153mps, TP-MCCB-For Bas						
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One for PD8 & One For Genarator and will be Mechanical and Electrical interlock system. Outgoing Circuit Breaker: One(01) unit of 630amps,TP- MCCB-Adjustable for PFI One(01) unit of 320amps,TP-MCCB-Adjustable for B-2, Utility DB Each Three(03) unit of 320amps,TP-MCCB-Adjustable for Spare One(01) unit of 125amps,TP- MCCB-Adjustable for Spare One(01) unit of 100amps,TP- MCCB-Adjustable for 5th Floor One(01) unit of 100amps,TP- MCCB-Adjustable for 6th Floor Eleven(11) unit of 63amps,TP- MCCB-Adjustable for SDB & Spare Eleven(11) unit of 63amps,TP- MCCB-Adjustable for SDB & Spare Four (04) unit of 40amps,TP- MCCB-Adjustable for SDB & Spare Four (04) unit of 25amps,TP- MCCB- for Gr. & Mezz Floor and Each Two (02) unit of 25amps,TP- MCCB- for Basement. Each Two (02) unit of 32amps,ASP- MCB- for Control Panel. Each 2 1200amps busber sets with accessories. Set 1 e ELT PANEL Set 1 360,000 360,00 360,00 Gabricated as floor mounted, powder coated with 16SWG sheet metal One(01) unit of 125amp TP C.O.S Set One(01) unit of 100amp TP C.O.S Set One(01) unit of 100amp TP C.O.S	[
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One(01) unit of 320amps,TP-MCCB-Adjustable for 8-2, Utility DB Each 1 Three(03) unit of 320amps,TP-MCCB-Adjustable for Spare Each 3 One(01) unit of 125amps,TP-MCCB-Adjustable for Sth Floor Each 1 One(01) unit of 100amps,TP- MCCB-Adjustable for 5th Floor Each 1 Eleven(11) unit of 63amps,TP- MCCB-Adjustable for 6th Floor Each 1 Four (04) unit of 40amps,TP- MCCB-Adjustable for SDB & Spare Each 11 Four (04) unit of 40amps,TP- MCCB- for Gr.& Mezz Floor and Each 4 Two (02) unit of 25amps,TP- MCCB- for Basement. Each 2 Two (02) unit of 32amps,ASP- MCB- for Control Panel. Each 2 1200amps busber sets with accessories. Set 1 e ELT PANEL Set 1 360,000 360,00 ELT panle inaccordence to following accessorles and parameters. fabricated as floor mounted, powder coated with 16SWG sheet metal One(01) unit of 125amp TP C.O.S One(01) unit of 100amp TP C.O.S Set 12		One(01) unit of 630amps;TP- MCCB-Adjustable for PFI	Each	1		
Three(03) unit of 320amps,TP-MCCB-Adjustable for Spare Each 3 One(01) unit of 125amps,TP-MCCB-Adjustable for 5th Floor Each 1 One(01) unit of 100amps,TP-MCCB-Adjustable for 6th Floor Each 1 Eleven(11) unit of 63amps,TP-MCCB-Adjustable for SDB & Spare Each 1 Four (04) unit of 40amps,TP-MCCB-Adjustable for SDB & Spare Each 11 Four (02) unit of 25amps,TP-MCCB- for Gr.& Mezz Floor and Each 4 Two (02) unit of 25amps,TP-MCCB- for Basement. Each 2 Two (02) unit of 32amps,ASP-MCB- for Control Panel. Each 2 1200amps busber sets with accessories. Set 1 ELT PANEL Set 1 Supply, installation, testing & commissioning of locally fabricated ELT panle inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 16SWG sheet metal One(01) unit of 125amp TP C.O.S Set 10 One(01) unit of 100amp TP C.O.S Set 12		One(01) unit of 320amps,TP-MCCB-Adjustable for 8-2, Utility DB				
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Eleven(11) unit of 63amps,TP- MCCB-Adjustable for SDB & Spare		One(01) unit of 125amps,TP- MCCB-Adjustable for 5th Floor				-
Four (04) unit of 40amps,TP- MCCB- for Gr.& Mezz Floor and Each 4 Two (02) unit of 25amps,TP- MCCB- for Basement. Each 2 Two (02) unit of 32amps,ASP- MCB- for Control Panel. Each 2 1200amps busber sets with accessories. Set 1 e ELT PANEL Set 1 360,000 360,00 Supply, installation, testing & commissioning of locally fabricated ELT panle inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 16SWG sheet metal 0ne(01) unit of 125amp TP C.O.S Set 10 0ne(01) unit of 100amp TP C.O.S						
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e ELT PANEL Supply, installation, testing & commissioning of locally fabricated ELT panle inaccordence to following accessories and parameters. fabricated as floor mounted, powder coated with 16SWG sheet metal One(01) unit of 125amp TP C.O.5 One(01) unit of 100amp TP C.O.S Set 1 360,000 360,000 360,000						
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One(01) unit of 100amp TP C.O.S Set (12)	2	metal				'
One(01) unit of 100amp TP C.O.S Set (12)		One(01) unit of 125amp TP C.O.S	Set			
Sloven(11) unit of 63amp TP C.O.S. Set 12		One(01) unit of 100amp TP C.O.S	5et			
186		Eleven(11) unit of 63amp TP C.O.S.	5et	-12	/XT	
				1	SI	

Plot 1/B, Road 90, Gulshan 2, Dhaka 1212, Bangladesh (8802) 8811858, 8816528, 9891442; Гех: (8802) 8816205; E-mail: info@cross-world.com



Sl. Description of the Item	"Ls .'Unit	Qty.	En la force mark	
	4.1 (A.3)	. ' - 4.0 ₩		
f Lighting Arrestor				
Supply of outdoor type11 KV, 50 Hz, 100A, (10 KA), 75 KV BIL lightning arrester complete with mounting accessorie etc. manufactured by GEM Co. Ltd, Bangladesh /ENERGYPAC equivalent product of USA EU Countries (3 Nos. in a set).	·s·	1	6,000	6,000
g. 11 KV Dropout Fuse				-
Supply of outdoor type 11KV, 50 Hz, 5KA (20 KA) dropput fus complete with mounting accessories etc. manufactured I GEM Co. Ltd, Bangladesh /ENERGYPAC or equivalent product of USA /EU Countries (3 N in a set).	by . Set	1	6,000	6,000
h. Delivery, Transportation	Job	1	50,000	50,000
h. Installation and HT Cable Laying	Job	1	50,000	50,000
Total Price In BDT	Excluding VA	T&AIT)=	ı.	2,427,000

Less, Special Discount after negotiation

_427,000

Total Offer Value;

2,000,000

Taka Twenty Lac Only exvluding VAT and AIT

Terms & Conditions:

1 Validity :Our offer will remain valid for a period of 40 days from the date of this offer.

2 Delivery :Within 90 days after receipt of confirmed order & payment as per clause # 3.

3 Payment :50% as advance along with order & remaining

40% before delivery at the site.

10% after commissioning

4 All Civil Works ,Cables are excluded

4 Warranty :One year after commissioning or one & half year from the date of delivery which come earlier.

Ayan Ghosh Manager Sales Md.Shamsul Alam Sr.Manager,EBS

A 225



TECHNICAL SPECIPICATION:

630 KVA SUB-STATION: PROJECT GRANDE

A CONTRACTOR OF THE PROPERTY OF A			Unit	Quantity
1 11KV DROP OUT FU	SE.:	ه و درهم در در دوستار پاست پستان در میستان در	Set.	
11kV Drop -Out Fuse o	of following specific	ations :-		
Rated voltage (nomina	al)		: 11kV	
Rated max, voltage	•		: 15kV	
Rated current (conti.) i	RMS	.•	: 40A	
Interrupt current RMS		•	: 10kA	
Rated frequency			: 50Hz	
Withstand test voltage			: 75kV	
Dry 1 Min,			; 33kV	
Wet; 10 sec			: 30kV	
2 11KV LIGHTNING ÅR	RESTOR	and the state of t	Set	<u> </u>
4414/1:				
11kV Lighting Arrestor		cation :-	. 014.6	
Rated voltage (Nomina	ai)	•	: 9kV	
Rated system voltage			: 12kV	
Frequency			: 50Hz	
Minimum spark over (F	•		: 14kV	
Maximum spark over (: 40kV	
Max, impulse spark (cı	rest)	•	: 45kV	•
Withstand voltage				
(Power frequency 1 Mi	in. dry)		: 28kV	
Withstand voltage				
(Power frequency 10 s	sec. wet)		: 24kV	
 Nominal discharge cur 	rrent		. : 5kA	
Impulse current withsta	and	•	: 55kA	
03) 11 KV HT SWITCHGE	معدد مستخر العالمة لا عالمة	and recording the man in the contract of the	Set	

This specification cover the supply of 11KV indoor, metal enclosed switchgear according to IEC publication-298

The medium voltage switchgear panel shall be used for secondary distribution sub-station upto 12KV and suitable for an ambient temperature of 45 deg,C and rated rupture capacity of 350 MVA complete with all accessories, diagrams, levels, wirings & terminals. The 11 KV, 350 MVA rated switchboard would comply compulsory electricity regulations by standards. All cubicles are fitted with security interlocks and earthing switch,

Technical Data:

Service voltage : 11KV Rated voltage : 12KV Rated current of LBS : 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
- high voltage switchgear in metallic enclosure
- high voltage ac circuit breakers
- ac switches and earthing switches
- high voltage switches
- high voltage combined switch/fuse for ac current
- current transformers
- voltage transformers
- high voltage fuses
- control monitoring

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The	panel	chall	comi	nrice	of .
1110	1701101	SHAII	COIL	Ullac	V1 .

the patter compliant at a			
11KV, 630A, 350MVA, triple pole spring charged load break switch (with fuse.	(LBS) · 1	Set	
Cast resin insulated dry type 11KV double core current transfor	mer, ratio :		
30/5/5A.		Set	3
Core 1: 10VA, class 0.5M5 for metering	•	Ser	3
Core 2: 15VA, class 10P10 for protection			
Dry type cast resin insulated potential transformer for open del	ta connection.		
Ratio : 11000/110V			
Burden : 100VA, Class : 0.5		Set	2
20A HRCTUSE CT-3 NOS	e core		
20A, HRC fuse.	3	Nos	
Volt Meter with Selector switch (0-15KV)	. 1	Nos	
TP MCB for PT secondary protection.	1	Nos	
Indicating lamp RED/YELLOW/BLUE.	3	Nos	
Panel Heater	1	Nos	
Set TP busbar suitably sized & air insulated.	1	Nos	

LBS Brand: F&G

630 KVA OIL IMMERSED TRANSFORMER

11/0.415 kV, 50 Hz, 3 Phase, 4 Wire oil immersed naturally cooled (ONAN) type transformer with 3 HT & 4 LT bushing arranged on tank top conservator, oil level indicator, drain & filling valves, lifting lugs with first filling of transformer.

TECHNICAL DATA			
Rated Capacity	:630	kVA	
Rated Frequency	:50	Hz	
Rated Voltage			
~ Input Voltage	:11000	Volt	
~ Output Voltage	:415	Volt	
Vector Group	Dyn11		
Tapchanger (Off-Load)	5 Position (0,	+/-2.5%, -	
	5%, -7.5%)		
Ambient Temparature	:40	0 C	
Temparature Rise			
~ In Oil (max)	:60	0 C	
~ In Coil (max)	:65	0 C	
Star point brought out and loadable upto	:100	%	
Max Service Altitude	:1000	meter	
Installation	Indoor		
No Load Loss	:1102	Watt	
Load Loss	:6634	Watt	
Impedance	:5.20	, %	
Accessories	:Silica Gel, Breather		
Tolerance	As Per IEC 60	076	
STANDARD	IEC 60076		

ORIGIN

Silicon Steel : Korea

Super Enamelled Wire :BRB/Gazi (Bangladesh)/RR(India)/Equivalent

Insulating Materials :ltaly

Copper Wire/Strip :Singapore/Malaysia/India(Processed in Bangladesh)

Transformer Oil

:Electrol/Sabita/Apar (India)
MANUFACTURED BY: SHAKTI ENGINEERING LTD.

Plot 1/B, Road 90, Gulshan 2, Dhaka 1212, Bangladesh (8802) 8811858, 8816528, 9891442; Fax: (8802) 8816205; E-mail: info@cross-world.com



LT SWITCHGEAR

Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type LT Switchgear Panel with 1200A Hard Drawn Copper Busbar. Set of components required for the manufacture of LT Panel comprising:-

INCOMING:

moonino.		
1000A,TP, 100KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	2
Current transformer ratio:1000A with suitable accuracy and burden.	Pcs .	3
Digital Ammeter scaled (0 - 1000A) & Digital Voltmeter scaled (0 - 500V)with selector switch.	Pcs	1
Phase indicating lamp RED/YELLOW/BLUE. 1x6A,TP MCB for the protection of control circuit	Pcs Pcs	3 1
1x2A,SP MCB for the protection of control circuit OUTGOING:	Pcs	3
630A,TP, 65KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection. (For PFI)	Pcs	. 1
320A,TP,65KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	4
125A,TP,25KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	1
100A, TP, 25KA, 415V, 50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	1
63A,TP,25KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	11
40A,TP,25KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	4
40A,TP,25KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection.	Pcs	2
32A,TP,6KA,415V,50Hz MCB.	Pcs	2

BUSBAR Details

1200A TP Common Busbar 600A TP Earthing Busbar 1x1000A TP Terminal Busbar 1x630A TP Terminal Busbar 4x320A TP Terminal Busbar Enclosure As Standard General Accessories BRAND CB:HYUNDAI,KOREA





8 FIT SWITCHGEAR

Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type ELT Switchgear Panel with 200A Hard Drawn Copper Busbar. Set of components required for the manufacture of ELT Panel comprising:

OUTGOING:

125A,AC3,Magnetic Contactor,HYUNDAI/DONGA, KOREA	Pcs	2
100A,AC3,Magnetic Contactor,HYUNDAI/DONGA, KOREA	Pcs	2
100A.AC3,Magnetic Contactor,HYUNDAI/DONGA, KOREA	Pcs	22
Timer With Base (230V AC 10 Amps 8 Pin Autonics)	Pcs	26
Relay With Base (230V AC 10 Amps 8 Pin Schnieder)	Pcs	13

BUSBAR Details

200A TP Common Busbar 100A TP Earthing Busbar

Enclosure As Standard General Accessories

BRAND

CB:HYUNDAI,KOREA

7 380kVAR auto/manual PEl plant

Sheet steel clad powder coated (14 & 16SWG), dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, Indoor type PFI Panel with.

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

The panel comprising of:

630A,TP, 36KA,415V,50Hz (MCCB) adjustable overcurrent & magnetic short circuit protection. (For PFI)	Pcs	1
5X50(25X2)kVAR,415V,50 Hz, 3 Phase, normal duty type, self healing compact PF capacitors bank with discharge resistor.	Nos.	10
3X25 KVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor.	Nos	3
4X12.5 KVAR, 415V, 50 Hz, 3 Phase, dry type, self healing compact PF capacitors bank with discharge resistor.	Nos	4
80A,AC3, Magnetic Contactor.	Nos	13
40A,AC3, Magnetic Contactor.	Nos	3
20A,AC3, Magnetic Contactor.	Nos	3
80A HRC Fuse with Base./CB	Nos	15
40A HRC Fuse with Base./CB	Nos	9
20A HRC Fuse with Base./CB	Ńos	12
Indicating lamp	Nos	12
Auto/manual selector switch with adder block.	Nos	1
10A TP MCB	Nos	1
2A SP MCB	Nos	12

800A TP Common Busbar

Enclosure As Standard,

Accessories

12 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.lümini escent indicators & digital power factor meter

Set

Set Set 1

1

Brand

Capacitor Bank: Epcos,India

Magnetic Contactor:HYUNDAI/DONGA,KOREA ----

Circuit Breaker; Brand :HYUNDAI,KOREA

12 Steps reactive power regulator : Delab,Malaysia

wrong for Donga Magnetic Confedor.

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