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Item No.	Qnty.	Description	Price in Unit Price	Taka Total Price
110.		TECHNICAL SPECIFICATION	Cint Trice	TotalTrice
		250 KVA SUBSTATION		
		11 KV H.T.SWITCHGEAR (LBS)		
		Sheet steel clad, (14 SWG) free standing, floor mounting		
		indoor type, 11 KV, 50 Hz, HT Switchgear with 630		
		A, three phase hard drawn electrolytic copper		
		busbars and all internal wiring equipped with:		
		1 No. 630 A, 11 KV, 20KA breaking capacity TP		
		Load Break switch with automatic tripping		
		mechanism whenever any of the fuses blow.		
		3 Nos. Cast resin insulated, 11 KV dry type CT		
		with Ratio: 30/5A, with suitable accuracy class		
		and burden.		
		3 Nos. Ammeter, 0 - 30 A.		
		2 Nos. Cast resin insulated, double pole,		
		Potential Transformer, ratio: 11/.11 KV, Class 0.5, 50 VA,		
		0.5, 50 VA,		
		1 No. TP MCB for PT Secondary Protection		
		1 No. Voltmeter, range 0 - 15 KV with		
		selector Switch.		
		3 Nos. 63 A HRC Fuses.		
		2 Nos. Indicating Lamps ON/OFF		
		2 Nos. Indicating Lamps ON/OFF		
		TECHNICAL SPECIFICATION		

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Item	Qnty.	Description		Price in Taka	
No.	1	2-0	VIVA CUIDOMATIVOS	Unit Price	Total Price
		<u>250</u>	KVA SUBSTATION		
01001	1 No.				
		3 Phase oil immersed, natu			
		Transformer acc. to VDE/IE			
		HT Bushing and 4 LT Bush	•		
		top, conservator, oil level in			
		filling valves, lifting lugs, wit	th first filling		
		of oil in Transformer			
		Technical Data :			
		Rated Capacity	: 250 KVA		
		Rated Frequency	: 50 Hz		
		Rated Voltage,			
		-Primary	: 11000 V		
		-Secondary	: 415 V		
		Vector Group Off-load tap changer	: DYN 11		
		Ambient Temperature	: ±2.5%,-5%,-7.5% : 40°C		
		Temperature rise	. 40 0		
		- in Oil	: 60°C (Max)		
		- in Coil	: 65°C (Max)		
		Star point brought			
		out & loadable upto	: 100%		
		Max. service altitude	: 1000 Meters		
		Installation	: Indoor/outdoor		
		No - load loss	: 580 Watt		
		Load loss	: 2800 Watt		
		Impedence	: 4%		
		Accessories:			
		- Silicagel breather - Thermometer			
		Origin:			
		Core	: Kawasaki, Japan / POSCO, KOREA		
		Copper Strip	: RR IMPERIAL, Bangladesh.		
		Insulation Materials	: Wiedmann, Switzerland.		
		Transformer Oil	: Sabita, India.		
		Super Enamelled Copper	Wire:RR IMPERIAL, Bangladesh.		
		Assembled by ELECTRO	POWER & ENGINEERING., Bangladesh		

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Item	Qnty.	Description	Price in	
No.			Unit Price	Total Price
02001	1 No.	LT SWITCHGEAR PANEL		
		Sheet steel clad, free standing, floor mounting type, 415V,50 Hz, indoor type Low Tension Switchgear with hard drawn copper busbars, TPN&E equipped with:		
		Incoming: 1 No. 400 A, 36 KA, TP MCCB with adjustable thermal overload and adjustable magnetic short-circuit releases.		
		3 Nos. Current Transformer, ratio: 400/5A with suitable accuracy and burden		
		1 No. Digital Multimeter. 3 Nos. Indicating Lamp 1 Set of Control Fuse		
		Outgoing: 1 No. 250 A, 25 KA, TP MCCB with Fixed thermal overload and Fixed magnetic short-circuit releases For PF1.		
		1 No. 250 A, 36 KA, TP MCCB with Fixed thermal overload and Fixed magnetic short-circuit releases.		
		2 No. 100 A, 10 KA, TP MCCB with fixed thermal overload and fixed magnetic short-circuit releases.		
		Origin : All MCCB's & MCB from SIEMENS/ABB		
		Assembled by ELECTRO POWER & ENGINEERING., Banglades	 h 	

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Item No.	Qnty.	Description	Price in Unit Price	
No.			Unit Price	Total Price
03001	1 No.	150 KVAR AUTOMATIC PFI PLANT		
		Sheet steel clad, dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, 150 KVAR Indoor type Automatic Power Factor Improvement Plant, comprising:		
		5 Nos. 25 KVAR Bank of TP dry type Power Capacitors with built-in discharge resister.		
		1 No. 12.5 KVAR Bank of TP dry type Power Capacitors with built-in discharge resister.		
		1 No. 7.5 KVAR Bank of TP dry type Power Capacitors with built-in discharge resister.		
		1 No. 5 KVAR Bank of TP dry type Power Capacitors with built-in discharge resister.		
		1 No. Automatic Power Factor Correction Relay. 6 Nos. TP Air Contactors of adequate rating 6 Nos. MCCB/MCB of adequate rating 6 Nos. Indicating Lamps 1 Set of Control fuses		
		Origin: Capacitor Bank - Schneider Electric. Relay -BELUK/ Miko. Magnetic Contactor - ABB MCB/MCCB - SIEMENS/ABB		
		Assembled by ELECTRO POWER & ENGINEERING., Banglades	l h	

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Item	Qnty.		Description	Price in	
No.				Unit Price	Total Price
05001	1 Set.	DROPOUT FUSE			
		Technical Specification	:		
		2 (: 11 kV		
		8	: 15 kV		
		Rated Frequency	: 50 Hz		
		BIL	: 75 kV		
		Rated Current RMS	: 100 A		
		Interrupting Current RMS Withstand Test Voltage	: 10 kA		
		_	: 35 kV		
		• .	: 30 kV		
06001	1 Set.	LIGHTNING ARRESTOR Technical Specification	:		
		Rated Voltage (RMS)	: 9 kV		
			: 12 kV		
		-	: 50 Hz		
		Minimum Spark Over (RMS)	: 14 kV		
		Maximum Spark Over (RMS	: 40 kV		
		Maximum Impulse Spark (Cr	: 45 kV		
		Withstand Voltage			
		Wet, 10 sec.	: 24 kV		
		Dry, 1 min.	: 28 kV		
		Discharge 33 kV (Crest)	: 5 kA		
		Impulse Current Withstand	: 55 kA		
1	I				

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Item	Qnty.	Description	Price in Taka	
No.			Unit Price	Total Price
		INSTALLATION PART		
01000	1 J0b	SUBSTATION EQUIPMENTS		
01001	1 No.	250 KVA TRANSFORMER		
		Installation, testing and commissioning of		
		250 KVA Transformer including supply of		
		consumables like		
		- Angle frame		
		- Cable support		
		- U-channels		
01002	1 No.	<u>LT SWITCHGEAR</u>		
		Installation, testing and commissioning of		
		415 V LT panel including supply of		
		consumables like		
		- Angle frame		
		- Cable support		
		- Controll cable		
		- U-channels		
01003	1 No.	<u>PFI PLANT</u>		
		Installation, testing and commissioning of PFI		
		Plant including supply of consumables like		
		- Angle frame		
		- Controll cable		
		- U-channels		

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Item	Qnty.	Description	Price in Taka	
No.			Unit Price	Total Price
02001	4 Set	EARTHING SYSTEM FOR SUBSTATION		
	2 Sets	EARTHING BLOCK		
		Supply, installation, testing and commissioning of 4 Nos. copper earthing block with required Nos. of ½" hole for ECC connection. Size - 254mm x 40mm x 10mm. One for transformer neutral and another for all substation equipments ECC connections.		
		equipments ECC connections.		
	4 Sets	EARTH ELECTRODE		
		Supply and installation of 60ft length 1.5" dia GI Pipe buried upto the depth of 80'-0" in the damp soil including 4 SWG copper wire from bottom of GI Pipe upto ground level.		
	150rft	EARTHING LEAD		
		Supply and Installation of earthing lead, 4 SWG copper wire through 1" dia PVC pipe (if required) from earthing block to earth electrode.		
	100 rft	EARTH CONTINUITY CONDUCTOR		
		Installation of 4SWG copper earth continuity conductor running from the bodies of substation equipment to the earthing block.		

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Item	Qnty.	Description		Price in	
No.		-		Unit Price	Total Price
		PRICE PROPOSAL 250 KVA SUBSTATION			
		PART A			
2,001	1 No.	TRANSFORMER (250KVA)		550,000	550,000
3,001	1 No.	LT SWITCHGEAR PANEL (400A)		160,000	160,000
4,001	1 No.	150 KVAR AUTOMATIC PFI PLANT		150,000	150,000
5,001	1 Set	DROPOUT FUSE		10,000	10,000
6,001	1 Set	LIGHTNING ARRESTOR		5,000	5,000
08001	4 Sets.	HEAT SHRINK KIT		2,000	8,000
		SUB	TOTAL	<u>TAKA</u>	883,000
		PART -B			<u></u>
01001	1 Set	INSTALLATION OF SUBSTATION EQUIPMENT		30,000	30,000
03001	5 Sets.	EARTHING FOR SUBSTATION		20,000	100,000
05001	1 Job	TRANSPORTATION & ELB		80,000	80,000
		SUB	TOTAL	TAKA	210,000
			TOTAL	TAKA	1,093,000

TOTAL TAKA TEN LAC NINETY THREE THOUSAND ONLY

Note:

- 01) Any type of civil works cables (HT & LT) , Road cutting & GOVT formalitite are beyond the scope of this quotation.
- 02) If Earthing result is not satisfactory (Less than 1.0 Ohm in each Electrode) with 4 Nos. earthing then for extra earthing cost will be as per above rate .

1 No.	LT SWITCHGEAR PANEL	
	Sheet steel clad, free standing, floor mounting	
	type, 415V,50 Hz, indoor type Low Tension	
	Switchgear with hard drawn copper busbars, TPN&E	
	equipped with:	
	Incoming:	
	1 No. 400 A, 36 KA, TP MCCB with adjustable	
	thermal overload and adjustable magnetic	
	short-circuit releases.	
	3 Nos. Current Transformer, ratio: 400/5A	
	with suitable accuracy and burden	
	1 No. Digital Multimeter.	
	=	
	1 Set of Control Fuse	
	Outgoing:	
	· · · · · · · · · · · · · · · · · · ·	
	short-circuit releases.	
	1 No. 100 A, 25 KA, TP MCCB with adjustable	
	· · · · · · · · · · · · · · · · · · ·	
	short-circuit releases.	
	Origin : All MCCB's & MCB from HAVELS, INDIA.	
	1 No.	Sheet steel clad, free standing, floor mounting type, 415V,50 Hz, indoor type Low Tension Switchgear with hard drawn copper busbars, TPN&E equipped with: Incoming: 1 No. 400 A, 36 KA, TP MCCB with adjustable thermal overload and adjustable magnetic short-circuit releases. 3 Nos. Current Transformer, ratio: 400/5A with suitable accuracy and burden 1 No. Digital Multimeter. 3 Nos. Indicating Lamp 1 Set of Control Fuse Outgoing: 4 No. 320 A, 36 KA, TP MCCB with adjustable thermal overload and adjustable magnetic short-circuit releases. 1 No. 100 A, 25 KA, TP MCCB with adjustable thermal overload and adjustable magnetic short-circuit releases.