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Item No.	Qnty.	Description Price in T		Taka Total Price
		TECHNICAL SPECIFICATION		
		150 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,		
		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. maicaung Lamps ON/OFF		
1	1	I	ı	1

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Item No.	Qnty.	Description		Price in	n Taka Total Price
01001	1 No.	TRANSFORMER		Unit Frice	Total Frice
		3 Phase oil immersed, natur Transformer acc. to VDE/IE HT Bushing and 4 LT Bushi top, conservator, oil level in filling valves, lifting lugs, with of oil in Transformer	C/ DIN standard with 3 ngs arranged on tank dicator, drain and		
		Technical Data :			
		Rated Capacity Rated Frequency Rated Voltage, -Primary -Secondary Vector Group Off-load tap changer Ambient Temperature Temperature rise - in Oil - in Coil Star point brought out & loadable upto Max. service altitude Installation No - load loss Load loss	: 150 KVA : 50 Hz : 11000 V : 415 V : DYN 11 : ±2.5%,-5%,-7.5% : 40°C : : 60°C (Max) : 65°C (Max) : 100% : 1000 Meters : Indoor/outdoor : 380 Watt : 2300 Watt		
		Impedence	: 3.6%		
		Accessories:			
		- Silicagel breather - Thermometer			
		Origin: Core Copper Strip Insulation Materials Transformer Oil Super Enamelled Copper	: POSCO, KOREA. : RR IMPERIAL, Bangladesh. : Wiedmann, Switzerland. : Sabita, India. Wire: RR IMPERIAL, Bangladesh.		

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Item	Qnty.	Description	Price in Taka	
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. 250 A, 36 KA, TP MCCB with adjustable thermal overload and adjustable magnetic short-circuit releases.		
		3 Nos. Current Transformer, ratio: 300/5A with suitable accuracy and burden		
		1 No. Digital Multimeter. 3 Nos. Indicating Lamp 1 Set of Control Fuse		
		Outgoing: 1 No. 160 A, 25 KA, TP MCCB with Fixed thermal overload and Fixed magnetic short-circuit releases For PFI.		
		1 No. 250 A, 36 KA, TP MCCB with adjustable thermal overload and adjustable magnetic short-circuit releases.		
		1 No. 100 A, 10 KA, TP MCCB with thermal overload and magnetic short-circuit releases.		
		Origin : All MCCB's FROM SIEMENS		

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Item	Qnty.	Description	Price in Taka	
No.			Unit Price	Total Price
03001	1 No.	90 KVAR AUTOMATIC PFI PLANT		
		Sheet steel clad, dust and vermin proof, free standing, floor mounting, 415V, 50 Hz, 90 KVAR		
		Indoor type Automatic Power Factor Improvement		
		Plant, comprising:		
		1 Nos. 40 KVAR Bank of TP dry type Power Capacitors with built-in discharge resister.		
		1 No. 25 KVAR Bank of TP dry type Power Capacitors with built-in discharge resister.		
		1 No. 10 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. 2.5 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. TP MCB of adequate rating 6 Nos. Indicating Lamps		
		1 Set of Control fuses	С	
		Origin: Capacitor Bank - Schneider Electric Relay - MIKRO MCB - ABB Magnetic Contactor - ABB		

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Item	Qnty.		Description	Price in	
No.				Unit Price	Total Price
05001	1 Set.	DROPOUT FUSE			
		Technical Specification :			
		\mathcal{E}	11 kV		
		2	15 kV		
		1 2	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		
		9 (12 kV		
		_	50 Hz		
		Minimum Spark Over (RMS):	14 kV		
		Maximum Spark Over (RMS:			
		Maximum Impulse Spark (Cr:			
		Withstand Voltage			
		· ·	24 kV		
		Dry, 1 min. :	28 kV		
		=	5 kA		
		Impulse Current Withstand :	55 kA		

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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.	150 KVA TRANSFORMER		
		Installation, testing and commissioning of		
		150 KVA Transformer including supply of		
		consumables like		
		- Angle frame		
		- Cable support		
		- U-channels		
01002	1 No.	LT SWITCHGEAR		
		Installation, testing and commissioning of		
		415 V LT panel including supply of		
		consumables like		
		- Angle frame		
		- Cable support		
		- Controll cable		
		- U-channels		
		- O-chamicis		
01003	1 No.	PFI PLANT		
01003	1 110.	ITTIEANI		
		Installation, testing and commissioning of PFI		
		Plant including supply of consumables like		
		- Angle frame		
		- Angre frame - Controll cable		
		- U-channels		
		- O-Chamiers		
1				

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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	Taka
No.				Unit Price	Total Price
		PRICE PROPOSAL			
		150 KVA SUBSTATION			
		100 11 11 10 11			
		DART A			
		PART A			
2,001	1 No.	TRANSFORMER (150KVA)		520,000	520,000
3,001	1 No.	LT SWITCHGEAR PANEL (250A)		155,000	155,000
4,001	1 No.	90 KVAR AUTOMATIC PFI PLANT		135,000	135,000
5,001	1 Set	DROPOUT FUSE		12,000	12,000
6,001	1 Set	LIGHTNING ARRESTOR		8,000	8,000
08001	4 Sets.	HEAT SHRINK KIT		2,500	10,000
		CATA) TOTAL	TAY.	0.40.000
			3 TOTAL	<u>TAKA</u>	<u>840,000</u>
01001	1 Set	PART -B INSTALLATION OF SUBSTATION EQUIPMENT		30,000	30,000
7,001	4 Nos.	EARTHING FOR SUB-STATION		25,000	100,000
05001	1 Job	TRANSPORTATION & ELB		60,000	60,000
	-	SUE	3 TOTAL	TAKA	190,000
			TOTAL	TAKA	1,030,000

TOTAL TAKA TEN LAC THIRTY 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.