

**Subhead 4**  
**Boards & Controls**

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna, Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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**4.1 SUB DISTRIBUTION BOARD (SDB)**

Providing & fixing 250V, 50 Hz grade following concealed type sub-distribution board made of 18-SWG MS sheet complete with hinged type door, built-in type locking arrangement, one no. 60 A capacity bus-bar with required no. of holes thereon on insulators at both ends, copper blocks for neutral and earth terminal, SPMCBs Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard having minimum breaking capacity 6 / 10-KA with thermal over current and instantaneous electromagnetic short circuit release, necessary arrangement for fixing of MCBs duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) etc. In front side there will be tempered thick fiber glass of minimum 8 mm thickness with rubber gaskets etc. with SPMCBs accepted / approved by the Engineer-in-charge.

4.1.1	3-Way SDB (with box size minimum 220mm x 132mmx148mm) in-coming :1 x 20 amps (6 KA) & out-going: 3 x 5 / 10 amps SPMCB(6 KA).	Each	4,301.00	4,300.00	4,295.00	4,295.00
4.1.2	4-Way SDB (with box size minimum 220mmx 132mmx148mm) in-coming : 1 x 30 amps (6 KA) & out-going :4 x 5 / 10 / 15 amps SPMCB (6 KA) .	Each.	5,037.00	5,036.00	5,031.00	5,031.00

**4.2 SINGLE PHASE DISTRIBUTION BOARD (SPDB)**

Providing and fixing single phase distribution board (SPDB) [concealed / surface] having the following components and specifications: [Fig : 4.2]

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1. Steel board : Approximate size: 20"x15"x4"  
MS sheet : 18SWG with hinged type door and locking arrangement duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) etc. In front side there will be tempered thick fiber glass of minimum 8 mm thickness with rubber gaskets to observe the inside arrangement.

2. Copper bar: Approximate size: 10"x 1"x 3mm(2 nos) and 6"x 1"x 3mm, (1 no) mounted on insulator at both ends, capacity: 60-100A .

3. 1 No. DPMCB(main control) and following nos.SPMCB, DPMCB and SPMCB Manufactured / Assembled and tested in accordance with relevant BDS IEC 60898-1:2016 and IEC / VDE / NEMA / BS / JIS standard.

Minimum breaking capacity 6/10 KA with thermal overcurrent and instantaneous electromagnetic short circuit release.

4. Loop Cable [from phase bar to SPMCB(circuit & power)]  
Size: 1C-1x2.5 sq mm (BYM) with DPMCB and SPMCBs accepted / approved by the Engineer-in-charge.

#### 4.2.1 6-way SPDB

Incoming : 1x40A DPMCB (6 KA)  
Outgoing : 6x5-10A SPMCB (6 KA)

Each. 12,829.00 12,828.00 12,823.00 12,823.00

#### 4.2.2 8-way SPDB

Incoming : 1x50A DPMCB (10 KA)  
Outgoing : 8x5-10A SPMCB(10 KA)

Each. 14,179.00 14,177.00 14,172.00 14,172.00

#### 4.2.3 10-way SPDB

Incoming : 1x60A/63A DPMCB (10 KA)  
Outgoing : 10x5-10A SPMCB (10 KA)

Each. 16,571.00 16,570.00 16,565.00 16,565.00

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**4.3 THREE PHASE DISTRIBUTION BOARD (TPDB)**

Providing and fixing three phase distribution board (TPDB) [concealed / surface] having the following components and specifications: [Fig : 4.3]

1. Steel board : Approximate size 36"x30"x6"

MS sheet:18SWG with hinged type door and locking arrangement duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) etc. In front side there will be tempered thick fiber glass of minimum 8 mm thickness with rubber gaskets to observe the inside arrangement.

2. Copper bar : size 12"x1"x6 mm(4 No's) and 6"x1"x5mm(1 No) mounted on insulator at both ends. Capacity : 200-300A

3. 1 no. TPMCCB (main control) and following nos. TPMCCB for feeders. TPMCCB's are Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard. Minimum breaking capacity 10-16 KA with thermal overcurrent and instantaneous electromagnetic short circuit release.

4. Loop Cable: From phase bar to TPMCCB (circuit & power)

Cable Size: As required compatible with circuit breaker with TPMCCBs accepted / approved by the Engineer-in-charge.

**4.3.1 100A TPDB**

Incoming : 1x100A TPMCCB (10 KA)

Outgoing: 6x10-20A TPMCCB (10 KA)

Each. 64,284.00 64,283.00 64,276.00 64,276.00

**4.3.2 150A TPDB**

Incoming : 1x150A TPMCCB (16 KA)

Outgoing: 8x10-30A TPMCCB (10 KA)

Each. 83,917.00 83,916.00 83,909.00 83,909.00

**4.3.3 200A TPDB**

Incoming : 1x200A TPMCCB (16 KA)

Outgoing: 10x10-30A TPMCCB (10 KA)

Each. 106,004.00 106,003.00 105,996.00 105,996.00

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**4.4 CIRCUIT BREAKER (SPMCB)**

Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6-KA / 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard.

**4.4.1 SPMCBs accepted / approved by the Engineer-in-charge.**

4.4.1.1	5 - 40 Amps (minimum 6 KA) MCB	Each	780.00	780.00	779.00	779.00
4.4.1.2	60/63 Amps (minimum 10 KA) MCB	Each	964.00	964.00	963.00	963.00

**4.5 TPMCB**

Providing & fixing on a prepared board 500 volt grade following Triple pole miniature circuit Breaker (TPMCB) having minimum breaking capacity 6-KA/ 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard.

**4.5.1 TPMCBs accepted / approved by the Engineer-in-charge.**

4.5.1.1	5 - 60 Amps.	Each	4,030.00	4,030.00	4,028.00	4,028.00
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**4.6 TPMCCB**

Providing & fixing on a prepared board 500 volt grade following triple-pole molded case circuit breaker (TPMCCB) with thermal over-current and instantaneous electromagnetic short circuit release provision, Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard.

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4.9.2	<b>With water tight arrangement.</b>	Per sq.m	17,553.00	17,552.00	17,547.00	17,547.00
4.9.3	<b><u>With Glass Cover</u></b> The front side of the boards should be covered with required size tempered thick fiber glass of minimum 8 mm thickness with rubber gaskets to observe the inside arrangement.	Per sq.m	18,780.00	18,779.00	18,774.00	18,774.00
4.9.4	<b><u>Pedestal Type</u></b> Providing and fixing of pedestal type 18 SWG M.S. sheet steel board for outside use with proper reinforcement by M.S. flat bars, water tight arrangement duly painted with powder coated paint over prime anticorrosive red oxide coat fitted on floor with necessary cc work, angle iron clamps / legs as per direction of the Engineer.	Per sq.m	5,605.00	5,603.00	5,598.00	5,598.00
4.9.5	<b><u>G.P. Sheet Board</u></b> Supplying and fixing of surface / concealed 18 SWG G.P. sheet board of 76.2 mm(3") depth(with open front) duly painted inner & outer surfaces with gray enamel paint, anchoring arrangement to be fitted in wall (only back surface of the board will be considered for measurement).	Per sq.m	6,701.00	6,701.00	6,700.00	6,700.00
4.9.6	<b><u>PVC Board</u></b> Supplying and fixing of surface / concealed type self-extinguishing PVC board of 76.2 mm(3") depth (with open front) duly painted inner & outer surfaces with anchoring arrangement to be fitted in wall (only back surface of the board will be considered for measurement).	Per sq.m	5,965.00	5,965.00	5,963.00	5,963.00

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4.9.7	<b>Ebonite Sheet</b> Providing and fixing of 3mm.thick ebonite sheet cover including making hole / groove etc. as required.	Per sq.m	1,639.00	1,639.00	1,638.00	1,638.00
4.10	<b>SOCKET OUTLETS</b> Providing & fixing 250 volt single phase 3-pin combined switch socket outlet (surface / Concealed type) Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard, mounted on required size 18 SWG galvanized plain sheet board / Plastic Board (Self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. (Manufacturer shall have certificate of standard which they follow).					
4.10.1	<b>13 / 15 / 16 / 20 Amps.</b>					
4.10.1.1	Made in ENGLAND / GERMANY / JAPAN / USA or EU countries	Each	1,066.00	1,066.00	1,066.00	1,066.00
4.10.1.2	Made in HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND	Each	501.00	500.00	500.00	500.00
4.10.1.3	Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	Each	384.00	383.00	383.00	383.00
4.10.2	<b>5 - 10 Amps.</b>					
4.10.2.1	Made in ENGLAND / GERMANY / JAPAN / USA or EU countries .	Each.	912.00	911.00	911.00	911.00
4.10.2.2	Made in HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND	Each.	728.00	727.00	727.00	727.00
4.10.2.3	Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM	Each.	323.00	322.00	322.00	322.00

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**4.11 UNIVERSAL COMBINED SWITCH SOCKET OUTLET (SURFACE/CONCEALED TYPE)**

Providing & fixing 250 volt single phase universal combined switch socket outlet (surface / concealed type) Manufactured/ Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / plastic board (self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. Sample to be approved by the Engineer-in-charge. Manufacturer shall have certificate of standard which they follow.

**4.11.1 13 / 15 / 16 / 20 Amps.**

4.11.1.1 Made in HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND

Each. 942.00 942.00 942.00 942.00

4.11.1.2 Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM

Each. 421.00 420.00 420.00 420.00

**4.11.2 5 - 10 Amps.**

4.11.2.1 Made in HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND

Each. 715.00 715.00 715.00 715.00

4.11.2.2 Assembled and made in BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM

Each. 445.00 445.00 445.00 445.00

**4.12 GANG SWITCH.**

Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper.

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**4.12.1 MADE IN ENGLAND / GERMANY / JAPAN / USA or EU countries**

4.12.1.1	One gang switch	Each.	574.00	574.00	<del>574.00</del>	574.00
4.12.1.2	Two gang switch	Each.	951.00	950.00	950.00	950.00
4.12.1.3	Three gang switch	Each.	1,458.00	1,457.00	1,457.00	1,457.00
4.12.1.4	One gang switch & one 5/10 amps. 2-pin socket combined.	Each.	1,323.00	1,322.00	1,322.00	1,322.00

**4.12.2 MADE IN HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND**

4.12.2.1	One gang switch	Each.	218.00	218.00	218.00	218.00
4.12.2.2	Two gang switch	Each.	375.00	375.00	375.00	375.00
4.12.2.3	Three gang switch	Each.	514.00	514.00	514.00	514.00
4.12.2.4	Four gang switch	Each.	763.00	763.00	763.00	763.00
4.12.2.5	One gang switch & one 5/10 Amps. 2-pin socket combined.	Each.	512.00	511.00	511.00	511.00
4.12.2.6	20 AMP DP Switch	Each.	930.00	929.00	929.00	929.00

**4.12.3 ASSEMBLED AND MADE IN BANGLADESH / CHINA / INDIA / TURKEY / VIETNAM**

4.12.3.1	One gang switch	Each.	151.00	150.00	150.00	150.00
4.12.3.2	Two gang switch	Each.	200.00	199.00	199.00	199.00
4.12.3.3	Three gang switch	Each.	243.00	242.00	242.00	242.00
4.12.3.4	Four gang switch	Each.	323.00	322.00	322.00	322.00
4.12.3.5	One gang DP switch with Neon and earth	Each.	432.00	431.00	431.00	431.00
4.12.3.6	One gang switch & one 5/10 Amps. 2-pin socket combined.	Each.	323.00	322.00	322.00	322.00

**4.13 GANG TYPE FAN REGULATOR**

4.13.1	Made in ENGLAND / GERMANY / JAPAN / USA or EU countries .	Each.	1,525.00	1,525.00	1,525.00	1,525.00
4.13.2	Made in HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND	Each.	1,187.00	1,186.00	1,186.00	1,186.00





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4.19.5	Depth of bottom of main electrode at 31242 mm. (102.5 ft) from GL & length of electrode 30480 mm. (100 ft).	Per Set.	45,401.00	45,401.00	45,401.00	45,401.00
4.19.6	Depth of bottom of main electrode at 37338 mm. (122.5 ft) from GL & length of electrode 36576 mm. (120 ft).	Per Set.	51,536.00	51,536.00	51,536.00	51,536.00
4.20	Construction of earthing inspection pit inside measurement 600 mm x 600 mm with 250 mm thick brick in cement mortar (1:4) with 100mm thick RCC top slab (1:2:4) with 1% re-enforcement 450 mm dia water sealed CI man-hole cover with locking arrangement including necessary earth works, site filling and one brick flat soling 75 mm thick (1:3:6) base concrete for making inlet channel & 12mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of .75 meter.	Each	7,362.00	<del>7,362.00</del>	7,362.00	7,362.00
4.21	<b><u>LIGHTNING ARRESTER</u></b>					
4.21.1	<b><u>LIGHTNING ARRESTER (Up to 6-storied building)</u></b> Providing & fixing 25.4 mm (1") dia 457 mm (1.5 ft) long solid copper rod with 6.6 mm thick 150 mm x 150 mm copper made base with sharp end top, fixed on the top of 2.0"( 2.5 - 3 mm thick ) dia 10' long GI pole by necessary accessories . The pole shall fixed on parapet wall with necessary CC work and other accessories for arresting lightning as per plan (enclosed) and as per direction of the Engineer. [Fig : 4.21]	Per Set.	7,568.00	7,567.00	7,562.00	7,562.00
4.21.2	Providing & drawing no-2 HDBC wire through 12.7 mm. (½") dia G.I. pipe including fitting, fixing the G.I. pipe in wall or column complete as required.	Per meter	1,133.00	1,133.00	1,132.00	1,132.00
4.22	<b><u>LIGHTNING ARRESTER</u></b>					
4.22.1	(Above 6-storied building) (Item no : 4.22.1 - 4.22.9) Supply, installation, testing and commissioning early streamer Emission Air Terminal (ESEAT)/ Collection Volume Method (CVM) as per IEEE 998-2012 or equivalent product having the following technical specification -					

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(i)	Withstand Peak Lightning Current : 100 KA					
(ii)	Weather condition of work : Material of lightning Air Terminal should be able to work in any environmental condition. So, material of Air Terminal should be stainless steel.					
(iii)	<b>Dimension of the air terminal :</b> Minimum length : 220 mm 25mm dia solid rod at the bottom of the Air Terminal having M20 male thread to fix on mast.					
(iv)	<b>Certified advance Time :</b> Maximum 60 $\mu$ second with a current peak higher than 100 KA.					
(v)	<b>Material of the Air Terminal :</b> Stainless steel					
(vi)	<b>Weight :</b> 2.25 – 4.00 kg.					
(vii)	<b>Radius of protection :</b> 90 – 100 meter at 5 meter height from the plan.					
(viii)	Product certification and standards: System should compliant to UL-96 (lightning protection component) (standard of safety)					
(ix)	<b>Manufactured / Assembled and made in : USA / FRANCE / AUSTRALIA or EU countries.</b>	Each	310,443.00	310,443.00	310,443.00	310,443.00
4.22.2	Supply and installation of insulated Air Terminal mast of the following specification - Made of stainless steel (Type : 316) Length : 2300 mm Dia : 30mm The mast shall be fixed on the top of the GI tower with SS nuts bolts, clamps as per sample approved by the Engineer-in-charge.	Each	17,884.00	17,884.00	17,884.00	17,884.00

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4.22.3	Supply and installation of lightning event counter of the following technical specification - Register capacity : 0-999 mechanical counting without external power supply (LCD display) The down conductor shall pass the hole of the counter and the same shall be fixed vertically at any point.	Each	49,389.00	49,389.00	49,389.00	49,389.00
4.22.4	Supply and installation of earth test box with the following arrangement inside it. Test Joint : (79mm x 50mm x 20mm) made of copper. 30mm x 2mm and dia 8mm, line coupling made of copper.	Each	1,503.00	1,503.00	1,503.00	1,503.00
4.22.5	Supply and drawing of copper made down conductor having dia 12.7 mm or copper strip (30mmx2mm) with fixing holder on vertical and horizontal surface. The fixing shall have 40mm to 50mm length or height and will be placed 3 nos per meter as per direction and sample approved by the Engineer-in-charge .	meter	2,261.00	2,261.00	2,261.00	2,261.00
4.22.6	Construction of GI tower with the following specification - GI Pole: Dia 3", Length: 15' (L-10', D-3"; L-5', D- 2" ) duly painted with powder coating with epoxy polyester resin . There will be minimum three Guy-wire for erection of the pole properly. The base of the pole and guy will be installed by CC on the roof-top and the size will be as required to hold the pole at any circumstances.	Each	13,252.00	13,252.00	13,252.00	13,252.00
4.22.7	Construction of earthing ( 2 nos.) for the lightning arrester as per instruction and enclosed diagram ( Fig : 4.21) and as per direction of the Engineer in the following way-					
(i)	Soil digging : Size – 3000mmx400mmx400mm (2 nos.)					

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(ii) Construction of pit by brick and RCC slab on it. On the top of the slab there will be a hole and a pit cover made by cast iron will be fixed on it.

(iii) Size of the pit : (600mmx600mmx600mm) (2 nos.)

(iv) Copper plate : (300mmx150mmx15mm) (2 nos.)

Copper plate will be fixed with the electrode (copper rod or copper strip) by necessary fixing materials made of copper.

(v) Copper electrode (12.7mm dia copper rod or copper strip (30mmx2mm) Length of the copper rod or strip : minimum 3000mm (10+10) = 20 meter.

(vi) Ground enhancing materials (40 + 40) = 80 kg.  
(2 Nos. of earthing is considered 1 set)

job 153,381.00 153,381.00 153,381.00 153,381.00

4.22.8 Surge protection device (SPD) for protection of over-head line connected to LT line.

Capacity : 50 KA 4-pole with wiring and SPD box.

Made in GERMANY / AUSTRALIA / SPAIN or product of EU countries.

Set. 54,297.00 54,297.00 54,297.00 54,297.00

4.22.9 Supply and installation of Aviation light fittings with LED Lamp, day light sensor, wiring by 1C-2x1.5 sq.mm cable (NYY) with ECC as per instruction and sample approved by the Engineer-in-charge.

The Aviation Light fitting shall be fixed on GI pipe (GI Bracket) with necessary fixing materials shown in the fig - 4.22, below the Air Terminal.

Each 10,829.00 10,829.00 10,829.00 10,829.00

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