

Subhead -3
HT & LT Overhead Distribution Line

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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3.1 **MS POLE**

Providing following seamless tubular pole fabricated with 4.76 mm (3/16") thick MS sheet having different sections with 152.40 mm long MS reducing collar joint complete with MS base plate, top cover & duly painted with two coats of superior quality paint over two prime coats of red oxide etc. as required.

	Total length	Inner Dia	Length	Thickness	Inner Dia	Length	Base plate					
3.1.1	40'	6"	20'	4mm	4"	20'	2' x 2' x 6mm	Each	32,784.00	32,784.00	32,784.00	32,784.00
3.1.2	35'	6"	20'	4mm	4"	15'	2' x 2' x 6mm	Each	30,661.00	30,661.00	30,661.00	30,661.00
3.1.3	30'	6"	20'	4mm	4"	10'	2' x 2' x 6mm	Each	28,655.00	28,655.00	28,655.00	28,655.00
3.1.4	25'	4"	20'	4mm	3"	5'	1.5'x1.5'x6mm	Each	13,071.00	13,071.00	13,071.00	13,071.00
3.1.5	20'	3"	15'	3mm	2.5"	5'	1'x1' x 6mm	Each	9,450.00	9,450.00	9,450.00	9,450.00

3.2 **GI POLE**

Providing following seamless GI pole fabricated with GI pipe complete with GI sockets, MS. base plate, top cover, necessary welding as required:-

	Total length	Dia	Length	Thickness	Dia	Length	Base plate					
3.2.1	40'	6"	20'	4mm	4"	20'	2' x 2' x 6mm	Each	34,845.00	34,845.00	34,845.00	34,845.00
3.2.2	35'	6"	20'	4mm	4"	15'	2' x 2' x 6mm	Each	31,600.00	31,600.00	31,600.00	31,600.00
3.2.3	30'	6"	20'	4mm	4"	10'	2' x 2' x 6mm	Each	29,213.00	29,213.00	29,213.00	29,213.00
3.2.4	25'	4"	20'	4mm	3"	5'	1.5' x 1.5' x 6mm	Each	16,550.00	16,550.00	16,550.00	16,550.00

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3.2.5	20'	3"	15'	3mm	2.5"	5'	1' x 1' x 6mm	Each	11,803.00	11,803.00	11,803.00	11,803.00
3.2.6	10'	3"	10'	3mm			9"x9"x 6mm	Each	7,748.00	7,748.00	7,748.00	7,748.00

3.3 HEXAGONAL / OCTAGONAL SHAPE POLE (GI)

Providing following seamless Hexagonal / octagonal shape (GI) pole fabricated with GI pipe complete with GI sockets, MS base plate, top cover, necessary welding as required :-

	Total length	Dia	Length	Thickness	Dia	Length	Base plate					
3.3.1	40'	6"	30'	4mm	4"	10'	2' x 2' x 0.25"	Each	43,192.00	43,192.00	43,192.00	43,192.00
3.3.2	35'	6"	25'	4mm	4"	10'	2' x 2' x 0.25"	Each	38,468.00	38,468.00	38,468.00	38,468.00
3.3.3	30'	6"	20'	4mm	4"	10'	2' x 2' x 0.25"	Each	33,744.00	33,744.00	33,744.00	33,744.00
3.3.4	25'	4"	20'	4mm	3"	5'	1.5' x 1.5' x 0.25"	Each	20,246.00	20,246.00	20,246.00	20,246.00
3.3.5	20'	3"	15'	3mm	2.5"	5'	1' x 1' x 0.25"	Each	10,798.00	10,798.00	10,798.00	10,798.00
3.3.6	10'	3"	10'	3mm			9"x9"x0.19"	Each	6,074.00	6,074.00	6,074.00	6,074.00

3.4 RECTANGULAR SHAPE POLE (GI)

Providing following seamless rectangular shape (GI) pole fabricated with GI pipe complete with GI sockets, MS base plate, top cover, necessary welding as required:-

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	Total length	Inner Size	Length	Thickness	Inner Size	Length	Base plate					
3.4.1	40'	7"x4"	30'	4mm	4"x3"	10'	2' x 2' x 0.25"	Each	43,192.00	43,192.00	43,192.00	43,192.00
3.4.2	35'	7"x4"	25'	4mm	4"x3"	10'	2' x 2' x 0.25"	Each	38,468.00	38,468.00	38,468.00	38,468.00
3.4.3	30'	7"x4"	20'	4mm	4"x3"	10'	2' x 2' x 0.25"	Each	33,744.00	33,744.00	33,744.00	33,744.00
3.4.4	25'	4"x3"	20'	4mm	3"x2.5"	5'	1.5' x 1.5' x 0.25"	Each	20,246.00	20,246.00	20,246.00	20,246.00
3.4.5	20'	3"x2.5"	15'	3mm	2.5"x2"	5'	1' x 1' x 0.25"	Each	10,798.00	10,798.00	10,798.00	10,798.00
3.4.6	10'	3"x2.5"	10'	3mm			9"x9"x0.19"	Each	6,074.00	6,074.00	6,074.00	6,074.00

3.5 RCC TUBULAR POLE

Providing RCC type pre-stressed concrete pole with bottom plate fabricated and high tensile steel wire (5mm dia). (suitable for using in saline and coastal areas)

	Total length	Dia	Length	Length	Dia	Length	Base plate					
3.5.1	40'	12"	30'	10'	8"	10'	2' x 2' x 0.25"	Each	30,676.00	30,676.00	30,676.00	30,676.00
3.5.2	35'	10"	25'	10'	6"	10'	2' x 2' x 0.25"	Each	24,541.00	24,541.00	24,541.00	24,541.00
3.5.3	30'	8"	20'	10'	4"	10'	2' x 2' x 0.25"	Each	19,633.00	19,633.00	19,633.00	19,633.00

3.6 SPUN PC POLE

Providing spun type pre-stressed concrete pole with bottom plate fabricated and high tensile steel wire (5mm dia) manufactured by government owned company or Bangladesh power development board or private manufacturers as follows. (suitable for using in saline and coastal areas)

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3.6.1	Total 12000 mm (39.37') long pole having Top dia 230mm (9"), Bottom dia 390 mm (15") , wall thickness 55mm (2.16"), weight 1250kg, breaking strength 512kg/sqmm.	Each	24,541.00	24,541.00	24,541.00	24,541.00
3.6.2	Total 11000 mm (36.00') long pole having Top dia 230mm (9"), Bottom dia 375 mm (14.76") , wall thickness 55mm (2.16"), weight 1100kg, breaking strength 512kg/sqmm.	Each	22,087.00	22,087.00	22,087.00	22,087.00
3.6.3	Total 9000 mm (29.52') long pole having Top dia 150mm (5.90"), Bottom dia 270 mm (10.63") , wall thickness 50mm (1.97"), weight 522kg, breaking strength 232kg/sqmm.	Each	12,270.00	12,270.00	12,270.00	12,270.00
3.7	<u>POLE ERECTION</u>					
3.7.1	Erection of following tubular pole up to 1828.80 mm (6') depth by placing the pole base on one layer of 1st. class brick flat soling over 76.2 mm (3") sand bedding and making 1:2:4 (1.5' x 1.5' x 7') CC work around the pole including excavation & refilling and ramming the loose soil etc. as required.					
3.7.1.1	12192 mm (40') long MS / GI / RCC / spun PC pole with 457 mm x 457 mm (1.5'x1.5') CC work up to 6' below GL and 1' above GL including curing and neat cement finishing over concrete surface.	Each	3,425.00	3,363.00	3,130.00	3,130.00
3.7.1.2	10668 mm (35') long MS/GI pole with 457.20 mm x 457.20 mm (1.5'x1.5') CC work up to 6' below GL and 1' above GL including curing and neat cement finishing over concrete surface.	Each	3,253.00	3,195.00	2,973.00	2,973.00

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3.7.2	Erection of following tubular pole up to 1524 mm (5') depth by placing the pole base on one layer of 1st. class brick flat soling over 76.2 mm (3") sand bedding and making 1:2:4 (1.5' x 1.5' x 6') CC work around the pole up to 5' below GL and 1' above GL, 12.5 mm (1/2") thick cement plaster with neat cement finishing over concrete surface above GL including proper curing, excavation & refilling and ramming the loose soil etc. as required.					
3.7.2.1	9144 mm (30') long MS / GI / RCC / spun PC pole	Each	3,082.00	3,027.00	2,817.00	2,817.00
3.7.2.2	7620 mm (25') long MS / GI / RCC / spun PC pole	Each	2,911.00	2,859.00	2,660.00	2,660.00
3.7.2.3	6096 mm (20') long MS / GI / RCC / spun PC pole	Each	2,740.00	2,691.00	2,504.00	2,504.00
3.7.3	Erection of 3048 mm (10') long GI pole up to 609.6 mm (2') depth and making 228.60 mm x 228.60 mm (0'-9" x 0'-9") 1:2:4 CC work around the pole from 304.80 mm (2') below GL up to 304.8 mm (1 ft.) above GL 76.20 mm (3") thick brick soling over 76.20 mm (3") layer of sand bedding, 12.5 mm (1/2") thick cement plaster and neat cement finishing over concrete surface including excavation, refilling and ramming the loose soil surrounding CC work, proper curing etc. complete as required.					
3.7.3.1	3048 mm (10') long GI pole	Each	2,569.00	2,523.00	2,347.00	2,347.00
3.8	<u>WIRE RACK / CROSS ARM</u>					
3.8.1	Providing and fixing 914.4 mm (3'-0") long 3 spool vertical wire rack fabricated with 38.10 mm x 38.1mm x 6.35 mm (1.5" x 1.5" x 0.25") MS angle complete with 3 no's of 'U' clamp and 2 no's of 'D' clamp made of 25.4 mm x 6.35 mm (1" x 1/4") flat MS. bar for fixing insulators and clamping the rack respectively including necessary welding, GI nuts, bolts, washer etc. with two coats of aluminum painting over prime coat of red oxide painting .	Each	736.00	736.00	736.00	736.00

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3.8.2	Providing and fixing 1219 mm (4'-0") long 4 spool vertical wire rack fabricated with 38.10 mm x 76.2mm x 38.1 mm x 6.35 mm (1.5" x 3" x 1.5" x 0.25") MS channel complete with 4 no's of 'U' clamp and 2 no's of 'D' clamp made of 25.4 mm x 6.35 mm (1" x 1/4") flat MS bar for fixing insulators and clamping the rack respectively including necessary welding, GI nuts, bolts, washer etc. with two coats of aluminum painting over prime coat of red oxide painting .	Each	982.00	982.00	982.00	982.00
3.8.3	Providing and fixing 1524 mm (5'-0") long 5 spool vertical wire rack fabricated with 38.1 mm x 76.2 mm x 38.1 mm x 6.35 mm (1.5" x 3" x 1.5" x 0.25") MS. Channel complete with 5 nos of 'U' clamp and 2 nos of 'D' clamp made of 25.4 mm x 6.35 mm (1" x 1/4") flat MS. bar for fixing insulators and clamping the rack respectively including necessary welding, GI. nuts, bolts, washer etc. with two coats of aluminum painting over prime coat of red oxide painting	Each	1,227.00	1,227.00	1,227.00	1,227.00
3.8.4	Providing and fixing 1524 mm (5'-0") long clamp bracket fabricated with 76 mm x 6.35 mm thick (3"x1/4" thick) MS flat bar complete with 2 Nos of "D" clamp made of 38.1 mm x 6.35mm thick x 762mm long (1.5" x 1/4" thick x 2'-6" long) for fixing clamp brackets, units & bolts etc. complete (For HT line) in/c. hot-deep galvanizing of the complete cross arm as per direction of E/C.	Each	1,595.00	1,595.00	1,595.00	1,595.00
3.8.5	Providing and fixing 1524 mm (5'-0") long cross arm fabricated with 76 mm x 76 mm x 6.35 mm thick (3"x3"x1/4"thick) MS channel with necessary clamp brackets, nut bolts etc. complete (for HT line) including hot-deep galvanizing of the complete cross arm as per direction of engineer.	Each	1,841.00	1,841.00	1,841.00	1,841.00

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3.9	SHACKLE / PIN / DISC TYPE INSULATOR					
3.9.1	Providing and fixing 500 volt grade porcelain shackle type insulator of size 63 mm x 50.8 mm (2.5"x 2") as per BDS 1543.	Each	37.00	37.00	37.00	37.00
3.9.2	Providing and fixing 500 volt grade porcelain shackle type insulator of size 89 mm x 76 mm (3.5"x 3") as per BDS 1543.	Each	74.00	74.00	74.00	74.00
3.9.3	Providing and fixing of 11 KV Porcelain pin insulator and pins in/c. bolts etc. to existing pole top as per direction of engineer as per BDS 6038.	Each	798.00	798.00	798.00	798.00
3.9.4	11 KV Porcelain Disc insulator as per VDS 6038.	Each	1,963.00	1,963.00	1,963.00	1,963.00
3.10	STAY					
	Providing and fixing following pole stay made of stranded GI. wires complete with anchor plate of size 304.8 mm x 304.8 mm x 6.35 mm (1' x 1'x1/4"), 16 mm (5/8") dia stay rod of necessary length and frame bolts, guy insulator, nuts, with necessary adjusting arrangement complete as required to be placed within 30°- 45° angle with pole.					
3.10.1	8 SWG 7 strand	Each	1,841.00	1,841.00	1,841.00	1,841.00
3.10.2	10 SWG 7 strand	Each	1,472.00	1,472.00	1,472.00	1,472.00
3.10.3	12 SWG 7 strand	Each	1,350.00	1,350.00	1,350.00	1,350.00
3.11	Overhead ASC					
	Providing and drawing following PVC insulated aluminum stranded conductor in overhead line at proper sag complete with necessary GI binding wire as required as per BDS 1036.					
3.11.1	Cables manufactured by Govt. of Bangladesh owned / shared company Ltd. (Eastern cables) approved by the engineer.					
3.11.1.1	IC- 25 sq.mm (GNAT)	Meter	67.00	67.00	67.00	67.00

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3.11.1.2	IC- 50 sq.mm (ANT)	Meter	117.00	117.00	117.00	117.00
3.11.1.3	IC- 75 sq.mm (EARWIG)	Meter	206.00	206.00	206.00	206.00
3.11.1.4	IC- 100 sq.mm (WASP)	Meter	212.00	212.00	212.00	212.00
3.11.2	Cable manufacturer(s) must have valid test certificate from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the engineer.					
3.11.2.1	IC-25 sq.mm (GNAT)	Meter	67.00	67.00	67.00	67.00
3.11.2.2	IC-50 sq.mm (ANT)	Meter	117.00	117.00	117.00	117.00
3.11.2.3	IC-75 sq.mm (EARWIG)	Meter	206.00	206.00	206.00	206.00
3.11.2.4	IC-100 sq.mm (WASP)	Meter	212.00	212.00	212.00	212.00
3.12	ACSR CONDUCTOR					
	Providing and drawing following aluminium conductor steel reinforced (ACSR) bare conductor in. Overhead line at proper sag complete with necessary GI binding wire as required as per BDS 1037.					
3.12.1	Cables manufactured by Govt. of Bangladesh owned / shared company Ltd. (Eastern cables) approved by the engineer.					
3.12.1.1	IC- 50 Sq.mm (RABBIT)	Meter	142.00	142.00	142.00	142.00
3.12.1.2	IC- 100 Sq.mm (DOG)	Meter	217.00	217.00	217.00	217.00
3.12.2	Cable manufacturer(s) must have valid test certificate from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the engineer					
3.12.2.1	IC- 50 Sq.mm (RABBIT)	Meter	143.00	143.00	143.00	143.00
3.12.2.2	IC- 100 Sq.mm (DOG)	Meter	195.00	195.00	195.00	195.00

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3.13	<u>GI WIRE / COPPER WIRE</u>					
	Providing and drawing No. 2-10 SWG GI / hard drawn bare copper wire in overhead line at proper sag complete with necessary binding wire as required as per direction of the engineer.					
3.13.1	GI. wire	Kg.	152.00	152.00	152.00	152.00
3.13.2	H.D.B.C. wire.	Kg.	1,318.00	1,318.00	1,318.00	1,318.00
3.14	<u>SERVICE BELT</u>					
	Providing and fixing standard bi-metallic 'U' type service belt complete with 10 mm dia bare copper conductor at the middle and aluminum conductor at the ends with necessary insulation complete as required.					
		Set	160.00	160.00	160.00	160.00
3.15	<u>CLAMPS</u>					
3.15.1	Providing and fixing standard service clamp for jointing service cable with the overhead conductor complete as required	Set	135.00	135.00	135.00	135.00
3.15.2	Providing and fixing PG clamp with the conductor (for HT line) as per direction of engineer.	Each	287.00	287.00	287.00	287.00
3.15.3	Providing and fixing of 11 KV tension clamp to fix at disc insulator, fixing of 11 KV conductor with the tension clamp including hot deep galvanizing as per direction of engineer.	Each	672.00	672.00	672.00	672.00
3.15.4	Providing and fixing riz iron clamp fixing 11KV pin insulator, top of the HT pole (with nut bolts) including hot deep galvanizing complete as per direction of engineer.	Each	672.00	672.00	672.00	672.00
3.15.5	Providing and fixing clamp type side mounted bracket for fixing 11KV pin insulator (with nut bolts) including hot deep galvanizing complete as per direction of engineer.	Each	1,266.00	1,266.00	1,266.00	1,266.00

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3.16 CATENARY WIRING FOR SERVICE CONNECTION

Catenary wiring with the following PVC insulated and sheathed cables (NYY) properly clipped with 8 SWG GI supporting wire properly strained with clamps, nuts, bolts etc. including shackle type insulator at both ends.

3.16.1 Cables manufactured by Govt. of Bangladesh owned / shared company Ltd (Eastern cables) approved by the engineer.

3.16.1	IC-2 x 2.5 sq.mm	Meter	174.00	174.00	174.00	174.00
3.16.2	IC-2 x 4 sq.mm	Meter	246.00	246.00	246.00	246.00
3.16.3	IC-2 x 6 sq.mm	Meter	325.00	325.00	325.00	325.00
3.16.4	IC-2 x 10 sq.mm	Meter	491.00	491.00	491.00	491.00
3.16.5	IC-4 x 2.5 sq.mm	Meter	347.00	347.00	347.00	347.00
3.16.6	IC-4 x 4 sq.mm	Meter	491.00	491.00	491.00	491.00
3.16.7	IC-4 x 6 sq.mm	Meter	650.00	650.00	650.00	650.00

3.16.2 Cable manufacturer(s) must have valid test certificate from internationally accredited laboratory (Like CPRI, KEMA etc.) accepted / approved by the engineer

3.16.2.1	IC-2 x 2.5 sq.mm	Meter	135.00	135.00	135.00	135.00
3.16.2.2	IC-2 x 4 sq.mm	Meter	189.00	189.00	189.00	189.00
3.16.2.3	IC-2 x 6 sq.mm	Meter	264.00	264.00	264.00	264.00
3.16.2.4	IC-2 x 10 sq.mm	Meter	390.00	390.00	390.00	390.00
3.16.2.5	IC-4 x 2.5 sq.mm	Meter	269.00	269.00	269.00	269.00
3.16.2.6	IC-4 x 4 sq.mm	Meter	378.00	378.00	378.00	378.00
3.16.2.7	IC-4 x 6 sq.mm	Meter	527.00	527.00	527.00	527.00

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3.17	<u>SERVICE BRACKET</u>					
3.17.1	Providing and fixing of 1524 mm (5') long 25.40 mm (1") dia GI. pipe service bracket complete with 1 no. of GI bend 2 nos. fixing clamps of 38.10 mm x 6.35 mm (1.5" x 1/4") size iron flat bar bolts, nuts etc. complete as required.	Each	1,201.00	1,201.00	1,201.00	1,201.00
3.17.2	Providing and fixing of 1524 mm (5') long 38.1 mm (1.5") dia GI. pipe service bracket complete with 1 no. of GI bend 2 nos. fixing clamps of 38.10 mm x 6.35 mm (1.5" x 1/4") size iron flat bar bolts, nuts etc. complete as required.	Each	1,558.00	1,558.00	1,558.00	1,558.00
3.18	<u>AERIAL FUSE</u>					
	Providing and fixing 500V grade porcelain base rewirable type aerial service fuse unit of the following capacity :-					
3.18.1	Suitable for use up to 15 Amps	Each	112.00	112.00	112.00	112.00
3.18.2	Suitable for use up to 30 Amps	Each	125.00	125.00	125.00	125.00
3.18.3	Suitable for use up to 60 Amps	Each	139.00	139.00	139.00	139.00
3.18.4	Suitable for use up to 100 Amps	Each	168.00	168.00	168.00	168.00

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ANNEXURE-3**INSPECTION OF THE INSTALLATION OF OVERHEAD LINES :**

For overhead lines, it shall be checked whether:

- All conductors and apparatus including live parts thereof are inaccessible;
- The types and size of supports are suitable for the overhead lines/conductors used and are in accordance with approved drawing and standards;
- Clearances from ground level to the lowest conductor of overhead lines, sag conditions, etc. are in accordance with the relevant standard;
- Where overhead lines cross the roads or cross each other or are in proximity with one another, suitable guarding is provided at road crossings and also to protect against possibility of the lines coming in contact with one another;
- Every guard wire is properly earthed;
- The type, size and suitability of the guarding arrangement provided is adequate;
- Stays are provided suitably on the overhead lines as required and are efficiently earthed or provided with suitable stay insulators of suitable voltages;
- Anti-climbing devices and danger board / caution Board notices are provided on all HT supports;
- Clearances along the route are checked and all obstructions such as trees / branches and shrubs are cleared on the route to the required distance on either side;
- Clearance between the live conductor and the earthed metal parts are adequate; and
- For the service connections tapped off from the overhead lines, cutouts of adequate capacity are provided.

TABLE 3.1: MINIMUM CLEARANCE IN METERS OF OVERHEAD ELECTRIC LINES FROM GROUND OR STRUCTURES.

Sl.no.	Clearance between energized line & the following in meters	Low & medium voltage up to 650 volts	High voltage Line up to 11 KV	High voltage line above 11KV up to 33 KV
1	Ground level of street			
a)	Across	5.8 m	6.10 m	6.10 m
b)	Along	5.5 m	5.80 m	6.10 m
2	Ground elsewhere			
a)	Bare conductor	4.6 m	4.60 m	5.20 m
b)	Insulated Conductor	4.00m	4.00 m	5.20 m
3	From highest & farthest point of Bldg.			
a)	Vertical	3.50 m	3.70 m	3.70 m
b)	Horizontal	1.20 m	1.20 m	2.00 m
4	Communication lines	2.13 m	2.13 m	2.13 m
	(T & T lines)			

