ANNEXURE-5

CONVERSION OF LT BARE

to LT AB CABLE

ANNEXURE-5
Conversion of LT Bare to LT AB Cable

Sl. No.	DESCRIPTION OF WORK	Unit	Quantity (in km)	Unit Rate (in Rs.)	Amount (in cr.)
1	Conversion of LT Bare/ deteriorated LT AB Cable to LT AB Cable (4X95 sq.mm)	Km	23	9,13,536.67	2.1
2	Conversion of LT Bare/ deteriorated LT AB Cable to LT AB Cable (4CX70 sq.mm)	Km	39	8,13,204.60	3.2
3	Conversion LT Bare/ deteriorated LT AB Cable to LT AB Cable (4CX50 sq.mm)	Km	58	6,90,560.16	4.0
4	Conversion LT Bare/ deteriorated LT AB Cable to LT AB Cable (4CX35 sq.mm)	Km	10	5,98,035.85	0.6
5	Conversion LT Bare/ deteriorated LT AB Cable to LT AB Cable (2CX35 sq.mm+1CX35 sq.mm)	Km	2.4	4,31,176.63	0.1
Total			**132.4**		**10.0**

Standard Estimate for LT AB Cable Line Length with 33 Mtr. Span using - 4C×95 mm² (P)+1C×95 mm²(M)+1CX16 mm²(Street Light) (LT Bare to LT AB Cable)					
AB Cable LT Line Length In KM with 33 Mtr. Span (Ref. Drawing No.- TPCODL-…….)			1		
MATERIALS FOR LT AB Cable Line					
Sl. No.	**Description of Materials**	**Unit**	**Unit Rate**	**Total Quantity**	**Total Amount**
1	9 Mtr. long 300 Kg. PSC Pole	No.	3,900.00	10	39,000.00
2	LT Stay set Complete	Set	676.00	5	3,380.00
3	7/12 SWG GI stay wire, Grade -2	Kg	97.50	60.0	5,850.00
4	LT stay Clamp (1.40Kg/pair)	Pair	143.00	5	715.00
5	LT Stay insulator	No.	39.00	5	195.00
6	**LT Accessories with Eye hook and Clamp**				-
6.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	260.00	39	10,140.00
6.ii.	EYE hook for XLPE Aerial bunched Cable	No.	78.00	18	1,404.00
6.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No.	84.50	18	1,521.00
6.iv.	Suspension Clamp with EYE hook for ABC	Pair	442.00	21	9,282.00
7	4C×95 mm² (P)+1C×95 mm²(M)+1CX16 mm²(Street Light) (LT AB Cable)	Mtr.	368.64	1050.00	3,87,072.00
8	4 WAY SERVICE Distb. Box with kit kat fuse and Aluminium bus bar.	No.	2,873.00	5.00	14,365.00
9	8 WAY SERVICE Distb.Box with kit kat fuse and Aluminium bus bar.	No.	5,200.00	2.00	10,400.00
10	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No.	113.08	20	2,261.60
11	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	No.	62.13	40	2,485.20
12	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	No.	60.00	30	1,800.00
13	GI Pipe Earthing (each 5th pole to earth)	No.	1,365.00	5	6,825.00
14	Coil Earthing	No's	215.80	5	1,079.00
15	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	97.50	2.6	255.45
16	Danger plate (LT)	No	104.00	10	1,040.00
17	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	97.50	3.01	293.38
18	2C X 4sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	53.81	250	13,452.50
19	2C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	82.71	100	8,271.00
20	4C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	100.33	200	20,066.00
21	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	30.00	3,120.00
22	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	97.50	12.04	1,173.51
23	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	101.40	5.00	507.00
24	Black Paint	Ltr	286.00	10.0	2,860.00
25	Yellow Colour Paint for Background	Ltr	216.00	20.0	4,320.00
A				**Total Cost of materials**	**5,53,133.64**
B				Stock, Storage & Insurance i.e 3% of A	16,594.01
C				**Sub Total (A+B)**	**5,69,727.65**
D				Contigency @ 3% of C	17,091.83
E				Tools & Plants @ 2% of C	11,045.07
F				Transportation @ 7.5% of C	42,729.57
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/ LT Stay set/GI Pipe/PSC Pole)	51,208.37
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	8,034.00
J				**Sum of (C to I)**	**6,99,836.49**
Civil & Services					

Sl. No.	*Description of Materials*	*Unit*	*Unit Rate*	*Total Quantity*	*Total Amount*
1	Fixing of LT Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts, including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No.	2,250.00	5	11,250.00
2	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375Cu.mtr	Cu.mtr	6,500.00	3.75	24,375.00
3	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	3,700.00	5	18,500.00
4	Dismantling of 9/8 Mtr. PCC/Joist Pole (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within10km /site store and refilling the pit with loose earth and amming including removal and disposal of malba at proper location as per instruction of EIC.	No.	900.00	5	4,500.00
5	Dismantling of ACSR/AAAC 34/ 55mm2 from overhead line, recoiling, loading, transportation, unloading and staking at a proper place in safe position/ site store	KM	6,300.00	1.00	6,300.00
6	Dismantling of Insulator with Pin including loading, transportation, unloading and staking at a proper place in safe position/ site store.	EA	8.10	90	729.00
7	Dismantling / Removal of V Cross arm/ channel from pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site Store.	EA	41.40	30	1,242.00
K				**Total Civil & Services**	**66,896.00**
L				**Total (J+K)**	**7,66,732.49**
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**7,66,732.49**
O				Total GST @ 18% of (N)	1,38,011.85
O1				Total CESS @ 1% of (N)	7,667.32
P				**Gross Total Material +Services (N+O+O1) for LT AB Cable Line**	**9,12,411.67**
Q				Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.	375.00
R				Inspection Fee of Over Head Line (LV)- Rs. 225/ Additional Km	
S				Inspection Fee of Drawing Checking and Approval	750.00
T				**Gross Total Material, Services and Inspection Fees (P+Q+R+S)**	**9,13,536.67**

Standard Estimate for LT AB Cable Line Length with 33 Mtr. Span using - 4C×70 mm² (P)+1C×70 mm²(M)+1CX16 mm²(Street Light) (LT Bare to LT AB Cable)					
AB Cable LT Line Length In KM with 33 Mtr. Span (Ref. Drawing No.- TPCODL-…….)		1			
MATERIALS FOR LT AB Cable Line					
Sl. No.	***Description of Materials***	***Unit***	***Unit Rate***	***Total Quantity***	***Total Amount***
1	9 Mtr. long 300 Kg. PSC Pole	No.	3,900.00	10	39,000.00
2	LT Stay set Complete	Set	676.00	5	3,380.00
3	7/12 SWG GI stay wire, Grade -2	Kg	97.50	60.0	5,850.00
4	LT stay Clamp (1.40Kg/pair)	Pair	143.00	5	715.00
5	LT Stay insulator	No.	39.00	5	195.00
6	**LT Accessories with Eye hook and Clamp**				-
6.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	260.00	39	10,140.00
6.ii.	EYE hook for XLPE Aerial bunched Cable (25-70 sq.mm)	No.	78.00	18	1,404.00
6.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable (25-70 sq.mm)	No.	84.50	18	1,521.00
6.iv.	Suspension Clamp with EYE hook for ABC (25-70 sq.mm)	Pair	442.00	21	9,282.00
7	4C×70 mm² (P)+1C×70 mm²(M)+1CX16 mm²(Street Light) (LT AB Cable)	Mtr.	305.00	1050.00	3,20,250.00
8	4 WAY SERVICE Distb. Box with kit kat fuse and Aluminium bus bar.	No.	2,873.00	5.00	14,365.00
9	8 WAY SERVICE Distb.Box with kit kat fuse and Aluminium bus bar.	No.	5,200.00	2.00	10,400.00
10	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No.	113.08	20	2,261.60
11	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	No.	62.13	40	2,485.20
12	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	No.	60.00	30	1,800.00
13	GI Pipe Earthing (each 5th pole to earth)	No.	1,365.00	5	6,825.00
14	Coil Earthing	No's	215.80	5	1,079.00
15	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	97.50	2.62	255.45
16	Danger plate (LT)	No	104.00	10	1,040.00
17	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	97.50	3.01	293.38
18	2C X 4sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	53.81	250	13,452.50
19	2C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	82.71	100	8,271.00
20	4C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	100.33	200	20,066.00
21	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	30.00	3,120.00
22	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	97.50	12.04	1,173.51
23	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	101.40	5	507.00
24	Black Paint	Ltr	286.00	10	2,860.00
25	Yellow Colour Paint for Background	Ltr	216.00	20	4,320.00
A				**Total Cost of materials**	**4,86,311.64**
B				Stock, Storage & Insurance i.e 3% of A	14,589.35
C				**Sub Total (A+B)**	**5,00,900.99**
D				Contigency @ 3% of C	15,027.03
E				Tools & Plants @ 2% of C	9,668.54
F				Transportation @ 7.5% of C	37,567.57
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/ LT Stay set/GI Pipe/PSC Pole)	44,325.70
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	8,034.00
J				**Sum of (C to I)**	**6,15,523.83**
Civil & Services					

Sl. No.	*Description of Materials*	*Unit*	*Unit Rate*	*Total Quantity*	*Total Amount*
1	Fixing of LT Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts, including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No.	2,250.00	5	11,250.00
2	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375Cu.mtr	Cu.mtr	6,500.00	3.75	24,375.00
3	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	3,700.00	5	18,500.00
4	Dismantling of 9/8 Mtr. PCC/Joist Pole (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within10km /site store and refilling the pit with loose earth and amming including removal and disposal of malba at proper location as per instruction of EIC.	No.	900.00	5	4,500.00
5	Dismantling of ACSR/AAAC 34/ 55mm2 from overhead line, recoiling, loading, transportation, unloading and staking at a proper place in safe position/ site store	KM	6,300.00	1.00	6,300.00
6	Dismantling of Insulator with Pin including loading, transportation, unloading and staking at a proper place in safe position/ site store.	EA	8.10	90	729.00
7	Dismantling / Removal of V Cross arm/ channel from pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site Store.	EA	41.40	30	1,242.00
K				**Total Civil & Services**	**66,896.00**
L				**Total (J+K)**	**6,82,419.83**
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**6,82,419.83**
O				Total GST @ 18% of (N)	1,22,835.57
O1				Total CESS @ 1% of (N)	6,824.20
P				**Gross Total Material +Services (N+O+O1) for LT AB Cable Line**	**8,12,079.60**
Q				Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.	375.00
R				Inspection Fee of Over Head Line (LV)- Rs. 225/ Additional Km	
S				Inspection Fee of Drawing Checking and Approval	750.00
T				**Gross Total Material, Services and Inspection Fees (P+Q+R+S)**	**8,13,204.60**

Standard Estimate for LT AB Cable Line Length with 33 Mtr. Span using - 4C×50 mm² (P)+1C×50 mm²(M)+1CX16 mm²(Street Light) (LT Bare to LT AB Cable)					
AB Cable LT Line Length In KM with 33 Mtr. Span (Ref. Drawing No.- TPCODL-…….)			1		
MATERIALS FOR LT AB Cable Line					
Sl. No.	**Description of Materials**	**Unit**	**Unit Rate**	**Total Quantity**	**Total Amount**
1	9 Mtr. long 300 Kg. PSC Pole	No.	3,900.00	10	39,000.00
2	LT Stay set Complete	Set	676.00	5	3,380.00
3	7/12 SWG GI stay wire, Grade -2	Kg	97.50	60.0	5,850.00
4	LT stay Clamp (1.40Kg/pair)	Pair	143.00	5	715.00
5	LT Stay insulator	No.	39.00	5	195.00
6	**LT Accessories with Eye hook and Clamp**				-
6.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	260.00	39	10,140.00
6.ii.	EYE hook for XLPE Aerial bunched Cable (25-70 sq.mm)	No.	78.00	18	1,404.00
6.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable (25-70 sq.mm)	No.	84.50	18	1,521.00
6.iv.	Suspension Clamp with EYE hook for ABC (25-70 sq.mm)	Pair	442.00	21	9,282.00
7	4C×50 mm² (P)+1C×50 mm²(M)+1CX16 mm²(Street Light) (LT AB Cable)	Mtr.	226.00	1050.00	2,37,300.00
8	4 WAY SERVICE Distb. Box with kit kat fuse and Aluminium bus bar.	No.	2,873.00	5	14,365.00
9	8 WAY SERVICE Distb.Box with kit kat fuse and Aluminium bus bar.	No.	5,200.00	2	10,400.00
10	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No.	113.08	20	2,261.60
11	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	No.	62.13	20	1,242.60
12	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	No.	60.00	30	1,800.00
13	Insulated piercing connector.Type-D-main 10 to 50 sq.mm & Tap-1.5 to 10 sq.mm	No.	80.00	30	2,400.00
14	GI Pipe Earthing (each 5th pole to earth)	No.	1,365.00	5	6,825.00
15	Coil Earthing	No's	215.80	5	1,079.00
16	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	97.50	2.62	255.45
17	Danger plate (LT)	No	104.00	10	1,040.00
18	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	97.50	3.01	293.38
19	2C X 4sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	53.81	250	13,452.50
20	2C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	82.71	100	8,271.00
21	4C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	100.33	200	20,066.00
22	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	30.00	3,120.00
23	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	97.50	12.04	1,173.51
24	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	101.40	5	507.00
25	Black Paint	Ltr	286.00	10	2,860.00
26	Yellow Colour Paint for Background	Ltr	216.00	20	4,320.00
A				**Total Cost of materials**	**4,04,519.04**
B				Stock, Storage & Insurance i.e 3% of A	12,135.57
C				**Sub Total (A+B)**	**4,16,654.61**
D				Contigency @ 3% of C	12,499.64
E				Tools & Plants @ 2% of C	8,122.87
F				Transportation @ 7.5% of C	31,249.10
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/ LT Stay set/GI Pipe/PSC Pole)	35,901.07
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	8,034.00
J				**Sum of (C to I)**	**5,12,461.28**
Civil & Services					
Sl. No.	**Description of Materials**	**Unit**	**Unit Rate**	**Total Quantity**	**Total Amount**

1	Fixing of LT Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts, including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No.	2,250.00	5	11,250.00
2	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375Cu.mtr	Cu.mtr	6,500.00	3.75	24,375.00
3	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	3,700.00	5	18,500.00
4	Dismantling of 9/8 Mtr. PCC/Joist Pole (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within10km /site store and refilling the pit with loose earth and amming including removal and disposal of malba at proper location as per instruction of EIC.	No.	900.00	5	4,500.00
5	Dismantling of ACSR/AAAC 34/ 55mm2 from overhead line, recoiling, loading, transportation, unloading and staking at a proper place in safe position/ site store	KM	6,300.00	1.00	6,300.00
6	Dismantling of Insulator with Pin including loading, transportation, unloading and staking at a proper place in safe position/ site store.	EA	8.10	90	729.00
7	Dismantling / Removal of V Cross arm/ channel from pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site Store.	EA	41.40	30	1,242.00
K				**Total Civil & Services**	**66,896.00**
L				**Total (J+K)**	**5,79,357.28**
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**5,79,357.28**
O				Total GST @ 18% of (N)	1,04,284.31
O1				Total CESS @ 1% of (N)	5,793.57
P				**Gross Total Material +Services (N+O+O1) for LT AB Cable Line**	**6,89,435.16**
Q				Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.	375.00
R				Inspection Fee of Over Head Line (LV)- Rs. 225/ Additional Km	
S				Inspection Fee of Drawing Checking and Approval	750.00
T				**Gross Total Material, Services and Inspection Fees (P+Q+R+S)**	**6,90,560.16**

Standard Estimate for LT AB Cable Line Length with 33 Mtr. Span using - 4C×35 mm² (P)+1C×35 mm²(M)+1CX16 mm²(Street Light) (LT Bare to LT AB Cable)					
AB Cable LT Line Length In KM with 33 Mtr. Span (Ref. Drawing No.- TPCODL-…….)		1			
MATERIALS FOR LT AB Cable Line					
Sl. No.	**Description of Materials**	**Unit**	**Unit Rate**	**Total Quantity**	**Total Amount**
1	9 Mtr. long 300 Kg. PSC Pole	No.	3,900.00	10	39,000.00
2	LT Stay set Complete	Set	676.00	5	3,380.00
3	7/12 SWG GI stay wire, Grade -2	Kg	97.50	60.0	5,850.00
4	LT stay Clamp (1.40Kg/pair)	Pair	143.00	5	715.00
5	LT Stay insulator	No.	39.00	5	195.00
6	**LT Accessories with Eye hook and Clamp**				-
6.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	260.00	39	10,140.00
6.ii.	EYE hook for XLPE Aerial bunched Cable (25-70 sq.mm)	No.	78.00	18	1,404.00
6.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable (25-70 sq.mm)	No.	84.50	18	1,521.00
6.iv.	Suspension Clamp with EYE hook for ABC (25-70 sq.mm)	Pair	442.00	21	9,282.00
7	4C×35 mm² (P)+1C×35 mm²(M)+1CX16 mm²(Street Light) (LT AB Cable)	K.M	169.00	1050.00	1,77,450.00
8	4 WAY SERVICE Distb. Box with kit kat fuse and Aluminium bus bar.	No.	2,873.00	5	14,365.00
9	8 WAY SERVICE Distb.Box with kit kat fuse and Aluminium bus bar.	No.	5,200.00	2	10,400.00
10	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	No.	62.13	20	1,242.60
11	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	No.	60.00	40	2,400.00
12	Insulated piercing connector.Type-D-main 10 to 50 sq.mm & Tap-1.5 to 10 sq.mm	No.	80.00	30	2,400.00
13	GI Pipe Earthing (each 5th pole to earth)	No.	1,365.00	5	6,825.00
14	Coil Earthing	No's	215.80	5	1,079.00
15	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	97.50	2.62	255.45
16	Danger plate (LT)	No	104.00	10	1,040.00
17	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	97.50	3.01	293.38
18	2C X 4sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	53.81	250	13,452.50
19	2C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	82.71	100	8,271.00
20	4C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	100.33	200	20,066.00
21	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	30.00	3,120.00
22	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	97.50	12.04	1,173.51
23	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	101.40	5	507.00
24	Black Paint	Ltr	286.00	10	2,860.00
25	Yellow Colour Paint for Background	Ltr	216.00	20	4,320.00
A				**Total Cost of materials**	**3,43,007.44**
B				Stock, Storage & Insurance i.e 3% of A	10,290.22
C				**Sub Total (A+B)**	**3,53,297.66**
D				Contigency @ 3% of C	10,598.93
E				Tools & Plants @ 2% of C	6,716.47
F				Transportation @ 7.5% of C	26,497.32
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/ LT Stay set/GI Pipe/PSC Pole)	29,565.37
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	8,034.00
J				**Sum of (C to I)**	**4,34,709.76**
Civil & Services					
Sl. No.	**Description of Materials**	**Unit**	**Unit Rate**	**Total Quantity**	**Total Amount**

1	Fixing of LT Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts, including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No.	2,250.00	5	11,250.00
2	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375Cu.mtr	Cu.mtr	6,500.00	3.75	24,375.00
3	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	3,700.00	5	18,500.00
4	Dismantling of 9/8 Mtr. PCC/Joist Pole (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within10km /site store and refilling the pit with loose earth and amming including removal and disposal of malba at proper location as per instruction of EIC.	No.	900.00	5	4,500.00
5	Dismantling of ACSR/AAAC 34/ 55mm2 from overhead line, recoiling, loading, transportation, unloading and staking at a proper place in safe position/ site store	KM	6,300.00	1.00	6,300.00
6	Dismantling of Insulator with Pin including loading, transportation, unloading and staking at a proper place in safe position/ site store.	EA	8.10	90	729.00
7	Dismantling / Removal of V Cross arm/ channel from pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site Store.	EA	41.40	30	1,242.00
K				**Total Civil & Services**	**66,896.00**
L				**Total (J+K)**	**5,01,605.76**
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**5,01,605.76**
O				Total GST @ 18% of (N)	90,289.04
O1				Total CESS @ 1% of (N)	5,016.06
P				**Gross Total Material +Services (N+O+O1) for LT AB Cable Line**	**5,96,910.85**
Q				Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.	375.00
R				Inspection Fee of Over Head Line (LV)- Rs. 225/ Additional Km	
S				Inspection Fee of Drawing Checking and Approval	750.00
T				**Gross Total Material, Services and Inspection Fees (P+Q+R+S)**	**5,98,035.85**

Standard Estimate for LT AB Cable Line Length with 33 Mtr. Span using - 2X35 + 1X35 (LT Bare to LT AB Cable)					
AB Cable LT Line Length In KM with 33 Mtr. Span (Ref. Drawing No.- TPCODL-…….)			1		
MATERIALS FOR LT AB Cable Line					
Sl. No.	**Description of Materials**	**Unit**	**Unit Rate**	**Total Quantity**	**Total Amount**
1	9 Mtr. long 300 Kg. PSC Pole	No.	3,900.00	10	39,000.00
2	LT Stay set Complete	Set	676.00	5	3,380.00
3	7/12 SWG GI stay wire, Grade -2	Kg	97.50	60.0	5,850.00
4	LT stay Clamp (1.40Kg/pair)	Pair	143.00	5	715.00
5	LT Stay insulator	No.	39.00	5	195.00
6	**LT Accessories with Eye hook and Clamp**				-
6.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	260.00	39	10,140.00
6.ii.	EYE hook for XLPE Aerial bunched Cable (25-70 sq.mm)	No.	78.00	18	1,404.00
6.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable (25-70 sq.mm)	No.	84.50	18	1,521.00
6.iv.	Suspension Clamp with EYE hook for ABC (25-70 sq.mm)	Pair	442.00	21	9,282.00
7	2X35 + 1X35 (LT AB Cable)	Mtr.	85.14	1050.00	89,397.00
8	4 WAY SERVICE Distb. Box with kit kat fuse and Aluminium bus bar.	No.	2,873.00	5	14,365.00
9	8 WAY SERVICE Distb.Box with kit kat fuse and Aluminium bus bar.	No.	5,200.00	2	10,400.00
10	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	No.	62.13	15	931.95
11	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	No.	60.00	15	900.00
12	Insulated piercing connector.Type-D-main 10 to 50 sq.mm & Tap-1.5 to 10 sq.mm	No.	80.00	15	1,200.00
13	GI Pipe Earthing (each 5th pole to earth)	No.	1,365.00	5	6,825.00
14	Coil Earthing	No's	215.80	5	1,079.00
15	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	97.50	2.62	255.45
16	Danger plate (LT)	No	104.00	10	1,040.00
17	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	97.50	3.01	293.38
18	2C X 4sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	53.81	250	13,452.50
19	2C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	82.71	100	8,271.00
20	4C X 10sq. mm. Armoured Aluminium Cable - XLPE Insulated	Mtr.	100.33		-
21	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	30.00	3,120.00
22	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	97.50	12.04	1,173.51
23	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	101.40	5	507.00
24	Black Paint	Ltr	286.00	10	2,860.00
25	Yellow Colour Paint for Background	Ltr	216.00	20	4,320.00
A				**Total Cost of materials**	**2,31,877.79**
B				Stock, Storage & Insurance i.e 3% of A	6,956.33
C				**Sub Total (A+B)**	**2,38,834.12**
D				Contigency @ 3% of C	7,165.02
E				Tools & Plants @ 2% of C	4,427.20
F				Transportation @ 7.5% of C	17,912.56
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/ LT Stay set/GI Pipe/PSC Pole)	18,119.02
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	8,034.00
J				**Sum of (C to I)**	**2,94,491.92**

Civil & Services					
Sl. No.	***Description of Materials***	***Unit***	***Unit Rate***	***Total Quantity***	***Total Amount***
1	Fixing of LT Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts, including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No.	2,250.00	5	11,250.00
2	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375Cu.mtr	Cu.mtr	6,500.00	3.75	24,375.00
3	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	3,700.00	5	18,500.00
4	Dismantling of 9/8 Mtr. PCC/Joist Pole (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within10km /site store and refilling the pit with loose earth and amming including removal and disposal of malba at proper location as per instruction of EIC.	No.	900.00	5	4,500.00
5	Dismantling of ACSR/AAAC 34/ 55mm2 from overhead line, recoiling, loading, transportation, unloading and staking at a proper place in safe position/ site store	KM	6,300.00	1.00	6,300.00
6	Dismantling of Insulator with Pin including loading, transportation, unloading and staking at a proper place in safe position/ site store.	EA	8.10	90	729.00
7	Dismantling / Removal of V Cross arm/ channel from pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site Store.	EA	41.40	30	1,242.00
K				**Total Civil & Services**	**66,896.00**
L				**Total (J+K)**	3,61,387.92
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**3,61,387.92**
O				Total GST @ 18% of (N)	65,049.83
O1				Total CESS @ 1% of (N)	3,613.88
P				**Gross Total Material +Services (N+O+O1) for LT AB Cable Line**	**4,30,051.63**
Q				Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.	375.00
R				Inspection Fee of Over Head Line (LV)- Rs. 225/ Additional Km	
S				Inspection Fee of Drawing Checking and Approval	750.00
T				**Gross Total Material, Services and Inspection Fees (P+Q+R+S)**	**4,31,176.63**