

**A) Service Connection charges For New Overhead Connection****L.T. Supply : Single Phase**

a. For Load Upto 0.5 KW

Material	Unit	Qty	Rate in Rs	Cost in Rs
10-60A Smart Meter as per IS:16444 Part-I (Single Phase)	No.	1	5,200.00	5,200.00
W.P. Wire 2.5 mm <sup>2</sup> T/C 1100 V Grade	Mtr	20	8.76	175.20
Meter Board for 1-Phase 5-30A LTAC Meter	No	1	105.35	105.35
Kit kat/ MCCB 20 A with Enclosure	No	1	150.00	150.00
Reel Insulator 20mm	No	20	5.00	100.00
G.I. Wire 10SWG	Kg	2	72.00	144.00
G.I. Pipe 20mm	Mtr	3	95.00	285.00
G.I. Bend 20mm	No	3	23.00	69.00
G.I. Flexible pipe 20mm	Mtr	3	95.00	285.00
G.I. coupling 20mm	No	2	9.00	18.00
Sundries (Nut Bolts for Earthing Point and fitting, screws, Washers, drilling bit, Nails, Saddle clamps, lugs, PVC RAWAL Plugs etc.)	No	1	179.10	179.10
<b>Total</b>				<b>6,710.65</b>
Approx. Labour Charges			15.00%	1,006.60
Transportation Charges			4.00%	268.43
Tools & Plants			1.00%	67.11
Contingencies			2.00%	134.21
Insurance & Finance Cost			1.00%	67.11
<b>Grand Total</b>				<b>8,254.10</b>
Less Metering Cost				5,200.00
<b>Proposed Charges</b>				<b>3,000.00</b>

**L.T. Supply : Single Phase (Over head)**

b. for Load above 0.5KW &amp; Up to 7.5KW

Material	Unit	Qty	Rate in Rs	Cost in Rs
10-60A Smart Meter as per IS:16444 Part-I (Single Phase)	No.	1	5,200.00	5,200.00
W.P. Wire 10 mm <sup>2</sup> T/C 1100 V Grade	Mtr	20	28.92	578.40
Meter Board for 3-Phase 10-40A LTAC Meter	No	1	263.38	263.38
Kit kat / MCCB 32 A with Enclosure	No	1	150.00	150.00
Reel Insulator 30mm	No	20	5.00	100.00
G.I. Wire 10SWG	Kg	2	72.00	144.00
G.I. Pipe 30mm	Mtr	3	119.00	357.00
G.I. Bend 30mm	No	3	54.38	163.15
PVC Flexible pipe 30mm	No	2	56.89	113.78
G.I. coupling 30mm	No	2	33.88	67.76
Sundries (Nut Bolts for Earthing Point and fitting, screws, Washers, drilling bit, Nails, Saddle clamps, lugs, PVC RAWAL Plugs etc.)	No	1	221.24	221.24
<b>Total</b>				<b>7,358.71</b>
Approx. Labour Charges			15.00%	1,103.81
Transportation Charges			4.00%	294.35
Tools & Plants			1.00%	73.59
Contingencies			2.00%	147.17
Insurance & Finance Cost			1.00%	73.59
<b>Grand Total</b>				<b>9,051.22</b>
Less Metering Cost				5,200.00
<b>Proposed Charges</b>				<b>3,800.00</b>

**Three Phase (Over head)**

a. Motive Power Up to 27 HP or other loads up to 20 KW

Material	Unit	Qty	Rate in Rs	Cost in Rs
10-60A Smart Meter as per IS:16444 Part-I (Three Phase)	No.	1	8,666.10	8,666.10
L.T. XLPE Amoured 2 Core 16 Sqmm cable	Mtr	40	72.00	2,880.00
Meter Board for 3-Phase 10-40A LTAC Meter	No	1	263.38	263.38
Three Phase Four Pole MCB 32A with enclosure	No	1	2,000.00	2,000.00
Reel Insulator 25mm	No	30	5.00	150.00
G.I. Wire 8SWG	Kg	5	72.00	360.00
G.I. Pipe 110 mm	Mtr	3	321.00	963.00
G.I. Bend 110mm	No	3	67.98	203.94
G.I. Flexible pipe 110mm	Mtr.	2	321.30	642.60
G.I. coupling 110mm	No	2	42.35	84.71
Sundries (Nut Bolts for Earthing Point and fitting, screws, Washers, drilling bit, Nails, Saddle clamps, lugs, PVC RAWAL Plugs etc.)	No	1	421.42	421.42
<b>Total</b>				<b>16,635.14</b>
Approx. Labour Charges			15.00%	2,495.27
Transportation Charges			4.00%	665.41
Tools & Plants			1.00%	166.35
Contingencies			2.00%	332.70
Insurance & Finance Cost			1.00%	166.35
<b>Grand Total</b>				<b>20,461.22</b>
Less Metering Cost				8,666.10
<b>Proposed Charges</b>				<b>11,800.00</b>

**Three Phase (Over head)**

b. Motive Power above 27 HP but upto 107 HP or other loads above 20 KW but upto 80 KW.

Material	Unit	Qty	Rate in Rs	Cost in Rs
40-200A LTAC CT Embedded Meter	No.	1	10,950.00	10,950.00
L.T. Single Core armoured XLPE Cable 70 sq.mm	Mtr.	80	75.00	6,000.00
Meter Board for 3-Phase 40-200A LTAC Meter	No	1	526.75	526.75
Kit Kat fuses 415 V 200 A/ MCCB 200 A	No	3	882.00	2,646.00
G.I. Wire 8SWG	Kg	6	72.00	432.00
G.I. Pipe 110 mm	Mtr	3	321.00	963.00
G.I. Bend 110mm	No	3	67.98	203.94
G.I. Flexible pipe 110mm	Mtr.	2	321.30	642.60
G.I. coupling 110mm	No	3	42.35	127.06
Sundries (Nut Bolts for Earthing Point and fitting, screws, Washers, drilling bit, Nails, Saddle clamps, lugs, PVC RAWAL Plugs etc.)	No	1	737.48	737.48
<b>Total</b>				<b>23,228.83</b>
Approx. Labour Charges			15.00%	3,484.32
Transportation Charges			4.00%	929.15
Tools & Plants			1.00%	232.29
Contingencies			2.00%	464.58
Insurance & Finance Cost			1.00%	232.29
<b>Grand Total</b>				<b>28,571.46</b>
Less Metering Cost				10,950.00
<b>Proposed Charges</b>				<b>17,600.00</b>

**Three Phase (Over head)**

c. Motive Power above 107HP but upto 214HP or other loads above 80KW but upto 160KW

<b>Material</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate in Rs</b>	<b>Cost in Rs</b>
3-Phase LTAC -/5A CT Meter with 300/ 5A CTs & MCCB	No.	1	42,650.98	42,650.98
L.T. Single Core armoured XLPE Cable 185 sq.mm	Mtr	80	186.00	14,880.00
Kit Kat fuses 415 V 200 A/ MCCB 200 A	No	3	882.00	2,646.00
G.I. Wire 8SWG	Kg	6	72.00	432.00
G.I. Pipe 200 mm	Mtr	3	373.00	1,119.00
G.I. Bend 200mm	No	3	74.78	224.33
G.I. Flexible pipe 200mm	Mtr.	2	373.00	746.00
G.I. coupling 200mm	No	2	44.47	88.94
Sundries (Nut Bolts for Earthing Point and fitting, screws, Washers, drilling bit, Nails, Saddle clamps, lugs, PVC RAWAL Plugs etc.)	No	1	1053.54	1,053.54
<b>Total</b>				<b>63,840.80</b>
Approx. Labour Charges			15.00%	9,576.12
Transportation Charges			4.00%	2,553.63
Tools & Plants			1.00%	638.41
Contingencies			2.00%	1,276.82
Insurance & Finance Cost			1.00%	638.41
<b>Grand Total</b>				<b>78,524.19</b>
Less Metering Cost				42,650.98
<b>Proposed Charges</b>				<b>35,800.00</b>

**L.T. Supply : Single Phase (Underground)**

a. For Load Upto 0.5 KW

Material	Unit	Qty	Rate in Rs	Cost in Rs
10-60A Smart Meter as per IS:16444 Part-I (Single Phase)	No.	1	5,200.00	5,200.00
L.T. 2 Core Cable 2.5 sqmm Armoured	Rmt	25	102.00	2550.00
Meter Board for 1-Phase 5-30A LTAC Meter	No	1	105.35	105.35
Kit kat / MCCB 32 A with Enclosure	No	1	150.00	150.00
Misc. for U/G Cable	LS	1	1116.76	1116.76
<b>Total</b>				<b>9,122.11</b>
Approx. Labour Charges			15.00%	1,368.32
Transportation Charges			4.00%	364.88
Tools & Plants			1.00%	91.22
Contingencies			2.00%	182.44
Insurance, Labour & Finance Cost			1.00%	91.22
<b>Grand Total</b>				<b>11,220.19</b>
Less Metering Cost				5,200.00
<b>Proposed Charges</b>				<b>6,000.00</b>

**L.T. Supply : Single Phase (Underground)**

For loads above 0.5KW &amp; upto 7.5KW

Material	Unit	Qty	Rate in Rs	Cost in Rs
10-60A Smart Meter as per IS:16444 Part-I (Single Phase)	No.	1	5,200.00	5,200.00
L.T. XLPE Amoured 2 Core 16 Sqmm cable	Rmt	25	72.00	1800.00
Meter Board for 1-Phase 5-30A LTAC Meter	No	1	105.35	105.35
Kitkat / MCCB 63A, 650V	No	1	528.00	528.00
Misc. for U/G Cable	LS	1	4467.03	4467.03
<b>Total</b>				<b>12,100.38</b>
Approx. Labour Charges			15.00%	1,815.06
Transportation Charges			4.00%	484.02
Tools & Plants			1.00%	121.00
Contingencies			2.00%	242.01
Insurance, Labour & Finance Cost			1.00%	121.00
<b>Grand Total</b>				<b>14,883.47</b>
Less Metering Cost				5,200.00
<b>Proposed Charges</b>				<b>9,700.00</b>

**Three Phase (Underground) (Non-Agricultural Consumer)**

Motive power upto 27HP or other loads up to 20kW

Material	Unit	Qty	Rate in Rs	Cost in Rs
10-60A Smart Meter as per IS:16444 Part-I (Three Phase)	No.	1	8666.1	8666.10
L.T. XLPE Armoured cable 4core 16sq.mm.	Rmt	25	92.00	2300.00
Meter Board for 3-Phase 10-40A LTAC Meter	No	1	263.38	263.38
Kitkat / MCCB 63A, 650V	No	3	528.00	1584.00
R.C.C. Pipe 150 mm 2 M	No	10	629.00	6290.00
Misc. for U/G Cable	LS	1	4467.03	4467.03
<b>Total</b>				<b>23,570.51</b>
Approx. Labour Charges			15.00%	3,535.58
Transportation Charges			4.00%	942.82
Tools & Plants			1.00%	235.71
Contingencies			2.00%	471.41
Insurance, Labour & Finance Cost			1.00%	235.71
<b>Grand Total</b>				<b>28,991.72</b>
Less Metering Cost				8,666.10
<b>Proposed Charges</b>				<b>20,400.00</b>

**Three Phase (Underground)****Motive power above 27 HP but upto 67 HP or other loads above 20kW upto 50 kW**

Material	Unit	Qty	Rate in Rs	Cost in Rs
40-200A LTAC CT Embedded Meter	No.	1	10,950.00	10,950.00
L.T. XLPE Armoured cable 4core 70 sq.mm.	Rmt	25	275.00	6875.00
Meter Board for 3-Phase 40-200A LTAC Meter	No	1	526.75	526.75
Kitkat / MCCB 200A, 650V	No	3	882.00	2646.00
R.C.C. Pipe 150 mm 2 M	No	10	629.00	6290.00
Misc. for U/G Cable	LS	1	5415.22	5415.22
<b>Total</b>				<b>32,702.97</b>
Approx. Labour Charges			15.00%	4,905.45
Transportation Charges			4.00%	1,308.12
Tools & Plants			1.00%	327.03
Contingencies			2.00%	654.06
Insurance, Labour & Finance Cost			1.00%	327.03
<b>Grand Total</b>				<b>40,224.65</b>
Less Metering Cost				10,950.00
<b>Proposed Charges</b>				<b>29,200.00</b>

**Three Phase (Underground)****Motive power above 67HP but upto 134 HP or other loads above 50kW upto 100 kW**

Material	Unit	Qty	Rate in Rs	Cost in Rs
40-200A LTAC CT Embedded Meter	No.	1	10,950.00	10,950.00
L.T. XLPE Armoured cable 4core 185 sq.mm.	Rmt	25	675.00	16875.00
Meter Board for 3-Phase 40-200A LTAC Meter	No	1	526.75	526.75
MCCB 200 A	No	1	10355.91	10355.91
R.C.C. Pipe 150 mm 2 M	No	10	629.00	6290.00
Misc. for U/G Cable	LS	1	8934.06	8934.06
<b>Total</b>				<b>53,931.72</b>
Approx. Labour Charges			15.00%	8,089.76
Transportation Charges			4.00%	2,157.27
Tools & Plants			1.00%	539.32
Contingencies			2.00%	1,078.63
Insurance, Labour & Finance Cost			1.00%	539.32
<b>Grand Total</b>				<b>66,336.01</b>
Less Metering Cost				10,950.00
<b>Proposed Charges</b>				<b>55,300.00</b>

**Three Phase (Underground)****Motive power above 134HP but upto214 HP or other loads above 100kW upto 160KW**

Material	Unit	Qty	Rate in Rs	Cost in Rs
3-Phase LTAC -/5A CT Meter with 300/ 5A CTs & MCCB	No.	1	42,650.98	42,650.98
L.T. XLPE Armoured cable 4core 300 sq.mm.	Rmt	25	998.00	24950.00
MCCB 300 A	No	1	17343.98	17343.98
R.C.C. Pipe 150 mm 2 M	No	10	629.00	6290.00
Misc. for U/G Cable	LS	1	8934.06	8934.06
<b>Total</b>				<b>1,00,169.02</b>
Approx. Labour Charges			15.00%	15,025.35
Transportation Charges			4.00%	4,006.76
Tools & Plants			1.00%	1,001.69
Contingencies			2.00%	2,003.38
Insurance, Labour & Finance Cost			1.00%	1,001.69
<b>Grand Total</b>				<b>1,23,207.90</b>
Less Metering Cost				42,650.98
<b>Proposed Charges</b>				<b>80,600.00</b>

**Service connection charges for Overhead 11kV HT supply up to 1000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (11 kV) Metering Cubicle including CT & PT	No.	1	1,08,000.00	1,08,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58218.00
11 kV Pin Insulators with G.I. Pins	No	3	120.00	360.00
Disc Insulator 11 KV 70 KN	No	3	326.00	978.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
11 kV Lightning Arrestor (Gapless type) with disconnecter	Set	1	1,531.00	1531.00
11KV A.B. Switch, 400 A	Set	1	11,642.00	11642.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4550.00
H.T. Stay Set	No	2	807.00	1614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1800.00
Earthing Sets H.T.	No	4	462.00	1848.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1440.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1040.00
Black Bituminus Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58342.83
XLPE Cable 11 kV, 3 C / 95 mm sq.	Rmt	20	815.00	16,300.00
11 kV Outdoor termination joint kit for 3 C X 95 mm2	No	1	1,517.00	1,517.00
11 kV Indoor termination joint kit for 3 C X 95 mm2	No	1	1,216.00	1,216.00
Cable Trays 2.5* 6"	No	12	383.00	4,596.00
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15075.59
Bentonite clay	Kg	500	15.00	7500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, Minor Civil Work & misc. items)	L.S.	1	13358.95	13358.95
<b>Total</b>				<b>3,84,875.71</b>
Approx. Labour Charges			15.00%	57,731.36
Transportation Charges			4.00%	15,395.03
Tools & Plants			1.00%	3,848.76
Contingencies			2.00%	7,697.51
Insurance, Labour & Finance Cost			1.00%	3,848.76
<b>Grand Total</b>				<b>4,73,397.12</b>
Less Metering Cost				1,51,072.88
<b>Proposed Charges</b>				<b>3,22,300.00</b>

**Service connection charges for Overhead 11kV HT supply above 1000 kVA up to 5000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (11 kV) Metering Cubicle including CT & PT	No.	1	1,08,000.00	1,08,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58218.00
11 kV Pin Insulators with G.I. Pins	No	3	120.00	360.00
Disc Insulator 11 KV 70 KN	No	3	326.00	978.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
11 kV Lightning Arrestor (Gapless type) with disconnecter	Set	1	1,531.00	1531.00
11 KV Isolators with EB (800 A)	Set	1	37,832.00	37832.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4550.00
H.T. Stay Set	No	2	807.00	1614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1800.00
Earthing Sets H.T.	No	4	462.00	1848.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1440.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1040.00
Black Bituminus Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58342.83
XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	20	1,498.00	29,960.00
11 kV Outdoor termination joint kit for 3 C X 300 mm2	No	1	2,111.00	2,111.00
11 kV Indoor termination joint kit for 3 C X 300 mm2	No	1	1,728.00	1,728.00
Cable Trays 2.5* 6"	No	12	383.00	4,596.00
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15075.59
Bentonite clay	Kg	500	15.00	7500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, Minor Civil Work & misc. items)	L.S.	1	13358.95	13358.95
<b>Total</b>				<b>4,25,831.71</b>
Approx. Labour Charges			15.00%	63,874.76
Transportation Charges			4.00%	17,033.27
Tools & Plants			1.00%	4,258.32
Contingencies			2.00%	8,516.63
Insurance, Labour & Finance Cost			1.00%	4,258.32
<b>Grand Total</b>				<b>5,23,773.00</b>
Less Meter Cost				1,51,072.88
<b>Proposed Charges</b>				<b>3,72,700.00</b>

**Service connection charges for Overhead 22kV HT supply up to 1000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (22 kV) Metering Cubicle including CT & PT	No.	1	1,50,000.00	1,50,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58218.00
22 kV Pin Insulators with G.I. Pins	No	3	406.00	1218.00
Disc Insulator 11 KV 70 KN	No	6	326.00	1956.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
22 KV Lightning Arrestors (Gapless type) with disconnecter	Set	1	2,753.00	2753.00
22KV A.B.Switch, 400 A	Set	1	18,203.00	18203.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4550.00
H.T. Stay Set	No	2	807.00	1614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1800.00
Earthing Sets H.T.	No	4	462.00	1848.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1440.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1040.00
Black Bituminus Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58342.83
XLPE Cable 22 KV, 3 C / 95 mm sq.	Rmt	20	1,165.00	23,300.00
22 kV Outdoor Cable termination joint kit for 3 C X 95 mm <sup>2</sup>	No	1	7,676.00	7,676.00
22 kV Indoor Cable termination joint kit for 3 C X 95 mm <sup>2</sup>	No	1	9,384.00	9,384.00
Cable Trays 2.5* 6"	No	12	383.00	4,596.00
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15075.59
Bentonite clay	Kg	500	15.00	7500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, Minor Civil Work & misc. items)	L.S.	1	13358.95	13358.95
<b>Total</b>				<b>4,57,821.71</b>
Approx. Labour Charges			15.00%	68,673.26
Transportation Charges			4.00%	18,312.87
Tools & Plants			1.00%	4,578.22
Contingencies			2.00%	9,156.43
Insurance, Labour & Finance Cost			1.00%	4,578.22
<b>Grand Total</b>				<b>5,63,120.70</b>
Less Meter Cost				1,93,072.88
<b>Proposed Charges</b>				<b>3,70,000.00</b>



**Service connection charges for Overhead 22kV HT supply above 1000 kVA up to 10,000**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (22 kV) Metering Cubicle including CT & PT	No.	1	1,50,000.00	1,50,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58218.00
22 kV Pin Insulators with G.I. Pins	No	3	406.00	1218.00
Disc Insulator 11 KV 70 KN	No	6	326.00	1956.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
22 KV Lightning Arrestors (Gapless type) with disconnecter	Set	1	2,753.00	2753.00
22 KV Isolators with EB (800 A)	Set	1	52,349.00	52349.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1300.00
M.S. Channel 100x50x6 mm	Kg	150	70.00	10500.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4550.00
H.T. Stay Set	No	2	807.00	1614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1800.00
Earthing Sets H.T.	No	4	462.00	1848.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1440.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1040.00
Black Bituminus Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58342.83
XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	20	1,971.00	39,420.00
22 kV Outdoor Cable termination joint kit for 3 C X 300 mm <sup>2</sup>	No	1	14,264.00	14,264.00
22 kV Indoor Cable termination joint kit for 3 C X 300 mm <sup>2</sup>	No	1	13,389.00	13,389.00
Cable Trays 2.5* 6"	No	12	383.00	4,596.00
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15075.59
Bentonite clay	Kg	500	15.00	7500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, Minor Civil Work & misc. items)	L.S.	1	13358.95	13358.95
<b>Total</b>				<b>5,17,980.71</b>
Approx. Labour Charges			15.00%	77,697.11
Transportation Charges			4.00%	20,719.23
Tools & Plants			1.00%	5,179.81
Contingencies			2.00%	10,359.61
Insurance, Labour & Finance Cost			1.00%	5,179.81
<b>Grand Total</b>				<b>6,37,116.27</b>
Less Meter Cost				1,93,072.88
<b>Proposed Charges</b>				<b>4,44,000.00</b>

**Service connection charges for Underground 11kV HT supply up to 1000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (11 kV) Metering Cubicle including CT & PT	No.	1	1,08,000.00	1,08,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4,158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58,218.00
11 kV Pin Insulators with G.I. Pins	No	3	120.00	360.00
Disc Insulator 11 KV 70 KN	No	3	326.00	978.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
11 kV Lightning Arrestor (Gapless type) with disconnecter	Set	1	1,531.00	1,531.00
11KV A.B. Switch, 400 A	Set	1	11,642.00	11,642.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1,300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11,200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10,500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4,550.00
H.T. Stay Set	No	2	807.00	1,614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1,800.00
Earthing Sets H.T.	No	4	462.00	1,848.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1,584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1,440.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1,040.00
Black Bituminous Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58,342.83
XLPE Cable 11 kV, 3 C / 95 mm sq.	Rmt	60	815.00	48,900.00
11 kV Outdoor termination joint kit for 3 C X 95 mm <sup>2</sup>	No	1	1,517.00	1,517.00
11 kV Indoor termination joint kit for 3 C X 95 mm <sup>2</sup>	No	1	1,216.00	1,216.00
R.C.C. Pipe 150 mm 2 M	No	5	629.00	3,145.00
Half round cement pipe (150mm X 1mtr)	No	5	157.00	785.00
Sand	Cmt	15	2,433.59	36,503.78
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15,075.59
Bentonite clay	Kg	500	15.00	7,500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, minor Civil work & misc. items)	L.S.	1	13358.95	13,358.95
<b>Total</b>				<b>4,53,313.48</b>
Approx. Labour Charges			15.00%	67,997.02
Transportation Charges			4.00%	18,132.54
Tools & Plants			1.00%	4,533.13
Contingencies			2.00%	9,066.27
Insurance, Labour & Finance Cost			1.00%	4,533.13
<b>Grand Total</b>				<b>5,57,575.59</b>
Less Metering Cost				1,51,072.88
<b>Proposed Charges</b>				<b>4,06,500.00</b>

**Service connection charges for Underground 11kV HT supply above 1000 kVA up to 5,000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (11 kV) Metering Cubicle including CT & PT	No.	1	1,08,000.00	1,08,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4,158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58,218.00
11 kV Pin Insulators with G.I. Pins	No	3	120.00	360.00
Disc Insulator 11 KV 70 KN	No	3	326.00	978.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
11 kV Lightning Arrestor (Gapless type) with disconnector	Set	1	1,531.00	1,531.00
11 KV Isolators with EB (800 A)	Set	1	37,832.00	37,832.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1,300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11,200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10,500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4,550.00
H.T. Stay Set	No	2	807.00	1,614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1,800.00
Earthing Sets H.T.	No	5	462.00	2,310.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1,584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	25	72.00	1,800.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1,040.00
Black Bituminous Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58,342.83
XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	20	1,498.00	29,960.00
11 kV Outdoor termination joint kit for 3 C X 300 mm <sup>2</sup>	No	1	2,111.00	2,111.00
11 kV Indoor termination joint kit for 3 C X 300 mm <sup>2</sup>	No	1	1,728.00	1,728.00
R.C.C. Pipe 150 mm 2 M	No	5	629.00	3,145.00
Half round cement pipe (150mm X 1mtr)	No	5	157.00	785.00
Sand	Cmt	15	2,433.59	36,503.78
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15,075.59
Bentonite clay	Kg	500	15.00	7,500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, minor Civil work & misc. items)	L.S.	1	13358.95	13,358.95
<b>Total</b>				<b>4,62,491.48</b>
Approx. Labour Charges			15.00%	69,373.72
Transportation Charges			4.00%	18,499.66
Tools & Plants			1.00%	4,624.91
Contingencies			2.00%	9,249.83
Insurance, Labour & Finance Cost			1.00%	4,624.91
<b>Grand Total</b>				<b>5,68,864.53</b>
Less Meter Cost				1,51,072.88
<b>Proposed Charges</b>				<b>4,17,700.00</b>

**Service connection charges for Underground 22kV HT supply up to 1,000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (22 kV) Metering Cubicle including CT & PT	No.	1	1,50,000.00	1,50,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4,158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58,218.00
22 kV Pin Insulators with G.I. Pins	No	3	406.00	1,218.00
Disc Insulator 11 KV 70 KN	No	6	326.00	1,956.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
22 KV Lightning Arrestors (Gapless type) with disconnector	Set	1	2,753.00	2,753.00
22KV A.B.Switch, 400 A	Set	1	18,203.00	18,203.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1,300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11,200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10,500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4,550.00
H.T. Stay Set	No	2	807.00	1,614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1,800.00
Earthing Sets H.T.	No	4	462.00	1,848.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1,584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1,440.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1,040.00
Black Bituminous Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58,342.83
XLPE Cable 22 KV, 3 C / 95 mm sq.	Rmt	60	1,165.00	69,900.00
22 kV Outdoor Cable termination joint kit for 3 C X 95 mm <sup>2</sup>	kit	1	7,676.00	7,676.00
22 kV Indoor Cable termination joint kit for 3 C X 95 mm <sup>2</sup>	kit	1	9,384.00	9,384.00
R.C.C. Pipe 150 mm 2 M	No	5	629.00	3,145.00
Half round cement pipe (150mm X 1mtr)	No	5	157.00	785.00
Sand	Cmt	15	2,433.59	36,503.78
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15,075.59
Bentonite clay	Kg	500	15.00	7,500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, minor Civil work & misc. items)	L.S.	1	13358.95	13,358.95
<b>Total</b>				<b>5,40,259.48</b>
Approx. Labour Charges			15.00%	81,038.92
Transportation Charges			4.00%	21,610.38
Tools & Plants			1.00%	5,402.59
Contingencies			2.00%	10,805.19
Insurance, Labour & Finance Cost			1.00%	5,402.59
<b>Grand Total</b>				<b>6,64,519.17</b>
Less Meter Cost				1,93,072.88
<b>Proposed Charges</b>				<b>4,71,400.00</b>

**Service connection charges for Underground 22kV HT supply above 1,000 kVA up to 10,000 kVA**

Material	Unit	Qty	Rate in Rs	Cost in Rs
HT (22 kV) Metering Cubicle including CT & PT	No.	1	1,50,000.00	1,50,000.00
HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
HT Earthing set (For cubical)	Set	9	462.00	4,158.00
RSJ 152x152, 13 m long	No	2	29,109.00	58,218.00
22 kV Pin Insulators with G.I. Pins	No	3	406.00	1,218.00
Disc Insulator 11 KV 70 KN	No	6	326.00	1,956.00
Strain Hardware for Weasel/Squirrel	Set	3	225.00	675.00
22 KV Lightning Arrestors (Gapless type) with disconnecter	Set	1	2,753.00	2,753.00
22 KV Isolators with EB (800 A)	Set	1	52,349.00	52,349.00
M.S. Flats (50 X 10mm)	Kg	20	65.00	1,300.00
M.S. Channel 100x50x6 mm	Kg	160	70.00	11,200.00
M.S. Channel 75x40x6 mm	Kg	150	70.00	10,500.00
M.S. angle 50x50x6 mm	Kg	65	70.00	4,550.00
H.T. Stay Set	No	2	807.00	1,614.00
G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1,800.00
Earthing Sets H.T.	No	5	462.00	2,310.00
1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1,584.46
G.I. Wire 8 SWG/ 6 SWG	Kg	25	72.00	1,800.00
G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
Danger Board in yard.	No	2	87.00	174.00
Red Oxide Paint for 2 coats	Ltr	6	124.00	744.00
Aluminium Paint for 1 coat	Ltr	4	260.00	1,040.00
Black Bituminous Paint	Ltr	2	150.00	300.00
Concreting ratio 1:4:8	Cmt	10	5,834.28	58,342.83
XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	20	1,971.00	39,420.00
22 kV Outdoor Cable termination joint kit for 3 C X 300 mm <sup>2</sup>	No	1	14,264.00	14,264.00
22 kV Indoor Cable termination joint kit for 3 C X 300 mm <sup>2</sup>	No	1	13,389.00	13,389.00
R.C.C. Pipe 150 mm 2 M	No	5	629.00	3,145.00
Half round cement pipe (150mm X 1mtr)	No	5	157.00	785.00
Sand	Cmt	15	2,433.59	36,503.78
Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15,075.59
Bentonite clay	Kg	500	15.00	7,500.00
Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, minor Civil work & misc. items)	L.S.	1	13358.95	13,358.95
<b>Total</b>				<b>5,55,340.48</b>
Approx. Labour Charges			15.00%	83,301.07
Transportation Charges			4.00%	22,213.62
Tools & Plants			1.00%	5,553.40
Contingencies			2.00%	11,106.81
Insurance, Labour & Finance Cost			1.00%	5,553.40
<b>Grand Total</b>				<b>6,83,068.80</b>
Less Meter Cost				1,93,072.88
<b>Proposed Charges</b>				<b>4,89,900.00</b>

**Service connection charges for Overhead 33kV HT supply up to 20,000 kVA**

Sr. No.	Description	Unit	Qty.	Rate	Amount
1	HT (33 kV) Metering Cubicle including CT & PT	No.	1	2,12,280.25	2,12,280.25
2	HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
3	HT Earthing set (For cubical)	Set	9	462.00	4,158.00
4	RSJ 152x152, 13 m long	No.	2	29,109.00	58,218.00
5	33 kV Pin Insulators with G.I. Pins	No.	3	486.00	1,458.00
6	Disc Insulator 11 KV 70 KN	No.	9	326.00	2,934.00
7	Strain Hardware for Dog 0.1 or Equ.AAAC.	No.	3	370.00	1,110.00
8	33 KV Lightning Arrestor 9 KA	Set	1	11,785.00	11,785.00
9	33 KV Isolators without EB (800 Amp.)	Set	1	63,643.00	63,643.00
10	M.S. Flats (50 X 10mm)	Kg	20	65.00	1,300.00
11	M.S. Channel 100x50x6 mm	Kg	160	70.00	11,200.00
12	M.S. Channel 75x40x6 mm	Kg	150	70.00	10,500.00
13	M.S. angle 50x50x6 mm	Kg	65	70.00	4,550.00
14	H.T. Stay Set	No	2	807.00	1,614.00
15	G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1,800.00
16	Earthing Sets H.T.	No	4	462.00	1,848.00
17	1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1,584.46
18	G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1,440.00
19	G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
20	Danger Board in yard.	No	2	87.00	174.00
21	Red Oxide Paint for 2 coats	Ltr	3	124.00	372.00
22	Aluminium Paint for 1 coat	Ltr	2	260.00	520.00
23	Black Bituminus Paint	Ltr	1	150.00	150.00
24	Concreting ratio 1:3:6	Cmt	10	4,328.00	43,280.00
25	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	20	2,179.00	43,580.00
26	33 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No	1	19,789.00	19,789.00
27	33 kV Heat shrik Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No	1	14,711.00	14,711.00
28	Cable Trays 2.5* 6"	No	12	383.00	4,596.00
29	Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15,075.59
30	Bentonite clay	Kg	500	15.00	7,500.00
31	Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, minor civil work & misc. items)	L.S.	1	13,358.95	13,358.95
	<b>Total</b>				<b>5,97,842.13</b>
	Approx. Labour Charges			15.00%	89,676.32
	Transportation Charges			4.00%	23,913.69
	Tools & Plants			1.00%	5,978.42
	Contingencies			2.00%	11,956.84
	Insurance, Labour & Finance Cost			1.00%	5,978.42
	<b>Grand Total</b>			<b>23.00%</b>	<b>7,35,345.82</b>
	Less Metering Cost				-2,55,353.13
	<b>Proposed Charges</b>				<b>4,79,900.00</b>

**Service connection charges for Underground 33kV HT supply up to 20,000**

Sr. No.	Description	Unit	Qty.	Rate	Amount
1	HT (33 kV) Metering Cubicle including CT & PT	No.	1	2,12,280.25	2,12,280.25
2	HT TOD Smart Meter as per IS:16444 Part-I	No	1	43,072.88	43,072.88
3	HT Earthing set (For cubical)	Set	9	462.00	4,158.00
4	RSJ 152x152, 13 m long	No.	2	29,109.00	58,218.00
5	33 kV Pin Insulators with G.I. Pins	No.	3	486.00	1,458.00
6	Disc Insulator 11 KV 70 KN	No.	18	326.00	5,868.00
7	Strain Hardware for Dog 0.1 or Equ.AAAC.	No.	6	370.00	2,220.00
8	33 KV Lightning Arrestor 9 KA	Set	1	11,785.00	11,785.00
9	33 KV Isolators without EB (800 Amp.)	Set	1	63,643.00	63,643.00
10	M.S. Flats (50 X 10mm)	Kg	20	65.00	1,300.00
11	M.S. Channel 100x50x6 mm	Kg	160	70.00	11,200.00
12	M.S. Channel 75x40x6 mm	Kg	150	70.00	10,500.00
13	M.S. angle 50x50x6 mm	Kg	65	70.00	4,550.00
14	H.T. Stay Set	No	2	807.00	1,614.00
15	G.I. Stay Wire 7/4mm (8 SWG)	Kg	25	72.00	1,800.00
16	Earthing Sets H.T.	No	4	462.00	1,848.00
17	1" PVC pipe for Lightning Arrestor earthing separation	Mtr.	16	99.03	1,584.46
18	G.I. Wire 8 SWG/ 6 SWG	Kg	20	72.00	1,440.00
19	G.I. Barbed Wire 'A' type.	Kg	3	80.00	240.00
20	Danger Board in yard.	No	2	87.00	174.00
21	Red Oxide Paint for 2 coats	Ltr	3	124.00	372.00
22	Aluminium Paint for 1 coat	Ltr	2	260.00	520.00
23	Black Bituminous Paint	Ltr	1	150.00	150.00
24	Concreting ratio 1:3:6	Cmt	10	4,328.00	43,280.00
25	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	20	2,179.00	43580.00
26	33 kV Heat shrink Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No	1	19,789.00	19789.00
27	33 kV Heat shrink Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No	1	14,711.00	14711.00
28	R.C.C. Pipe 150 mm 2 M	No	5	629.00	3145.00
29	Half round cement pipe (150mm X 1mtr)	No	5	157.00	785.00
30	Sand	Cmt	15	2,433.59	36503.78
31	Copper Strip (25 X 6 mm) for earthing of cubical, meter & cable	Kg	30	502.52	15,075.59
32	Bentonite clay	Kg	500	15.00	7,500.00
33	Sundries (Crimping of cable jumpers, minor matching washers, Glands, Nut Bolts, Clamps, minor civil work & misc. items)	L.S.	1	13,358.95	13,358.95
<b>Total</b>					<b>6,37,723.90</b>
Approx. Labour Charges				15.00%	95,658.59
Transportation Charges				4.00%	25,508.96
Tools & Plants				1.00%	6,377.24
Contingencies				2.00%	12,754.48
Insurance, Labour & Finance Cost				1.00%	6,377.24
<b>Grand Total</b>				<b>23.00%</b>	<b>7,84,400.40</b>
Less Metering Cost					-2,55,353.13
<b>Proposed Charges</b>					<b>5,29,000.00</b>

Ref. : YMPL/24-25/VAP/09 R

Date : 27 April 2024.

To,

The Executive Engineer, Rasta Peth Urban Testing Division,  
Maharashtra State Electricity Distribution Co. Ltd, (MSEDCL)  
No. 110, Ground Floor, Admin. Bldg. Rasta Peth,  
Pune 411011, Maharashtra, India

Ref. : Your mail dated 22.04.2024.

Sub. : Quotation for ILC calibration (MT310 reference standard) at our Udaipur Lab.

Dear Sir,

We, Yadav Measurements Pvt. Ltd. is a laboratory, providing services in the area of Electro - Technical calibration (with specialization in ac power / energy), Energy meter testing (as per IS, CBIP report 88, IEC, AS, NSC, BSEN standards), third party inspection for energy meters, on site testing of energy meters and instrument transformers and for imparting the training on metering systems and revenue protection.

Our test and calibration laboratories are accredited on the basis of its compliance by:

- India's National Accreditation Board for Testing and Calibration Laboratories (NABL), Govt. of India,
- United Kingdom Accreditation Services (UKAS), UK based on ISO/IEC 17025 in electrical calibration and testing discipline.

We are able to perform the ILC calibration of your reference standards at YMPL lab. We are pleased to quote calibration charges as follows:

SN.	Description	Qty (Nos.)	Unit Rate	Total (Rs.)
1.	ILC Portable Reference Standard, Zera Make, MT310 Calibration points : As per Annexure - A <b>Calibration will be performed using ERS 0.005 Energy Reference Standard.</b>	1	40,500	40,500
2.	ILC Portable Reference Standard, Zera Make, MT310 Calibration points: As per Annexure - A <b>Calibration will be performed using COM 0.01 Energy Reference Standard.</b>	1	26,500	26,500

❖ GST @18% will be charged extra on above offered charges.  
❖ We will follow the same procedure for your ILC Job, which was followed during last ILC job under report No. YMPL/345149/147883

**Terms & Conditions:**

1. Offer Validity: This offer stands valid for 60 days from the date of issuance of the same.





2. Please inform us of the likely date of sample submission for calibration/testing at least 1 week in advance. Work will be completed within 1 – 2 days after receipt of equipments or as per mutually agreed date.
3. It's the customer's responsibility for making proper arrangements for packing, submission, and collection of instruments from our lab at Udaipur. All necessary documents like waybill or any other commercial papers applicable are to be sent along with the equipment / meter.
4. Transport charges or courier charges for to and fro movement of the equipment's shall be on MSEDCL account.
5. The instrument / Reference Standard meter submitted for calibration must have all required accessories, documentation like manuals, software etc.
6. The instrument must be in good working condition. If the instrument fails during calibration, the responsibility of same will not be ours. YMPL is not responsible any damaged happen during transit. However, any damaged instrument received at YMPL shall be informed to MSEDCL within 1-2 working days.
7. NABL Calibration certificate as per our NABL Scope will be submitted to you within one week or as per planning schedule.
8. Calibration planning will be done once advance payment is received to us.

Please refer to the attached detailed terms and conditions.

We request you to give us an opportunity to serve you. We assure you our best service always.

Thanking you,

For Yadav Measurements Pvt Limited, Udaipur



Vinay A. Pandey

Executive - Sales & Marketing

Cell: 097733373 / 9869539390

Encl :

1. General terms & conditions.
2. Calibration points as per Annexure - A

**MSEDCL's TQA LABORATORY, PUNE.**

ILC Parameters		(Artifact: Portable Reference Standard, Zera Make, MT310)	
Traceability of Master Equipment of service provider			
Class of Master Equipment of service provider			
<b>CMC Against COM 3003 0.001</b>			
Instrument calibration due date			
S.No.	Parameter	Phase	Point
1	AC Active Energy @ 49.5 Hz	3Ph	63.5 V, 1 A, 0.8 lead (Direct mode)
2	AC Active Energy @ 50.5 Hz	3Ph	63.5 V, 5 A, 0.5 lag (Direct mode)
3	Active Energy @ 50 Hz	3Ph	60V, 1 A, 0.5lag (Direct mode)
4	Reactive Energy @ 50 Hz	3Ph	60V, 10 A, 0.8 lead (Direct mode)
5	Apparent Energy @ 50 Hz	3Ph	240 V, 60A, 0.8Lead (Clamp ON mode)
6	Active Power @ 50 Hz	3Ph	240 V, 40A, UPF (Clamp ON mode)
7	Reactive Power @ 50 Hz	3Ph	60V, 10 A, 0.5lag (Direct mode)
8	Apparent Power @ 50 Hz	3Ph	60V, 1 A, 0.8 lead (Direct mode)
9	AC Current @ 50 Hz	R	5 A (Direct mode)
10	AC Current @ 50 Hz	Y	1 A (Clamp ON mode)
11	AC Current @ 50 Hz	Y	50 A (Clamp ON mode)
12	AC Voltage @ 50 Hz	R	60 V
13	AC Voltage @ 50 Hz	B	240 V
14	Power Factor @ 50 Hz	R	0.5 lag @ 240 V, 10 A (Clamp ON mode)
15	Power Factor @ 50 Hz	Y	UPF @ 60 V, 1 A
16	Power Factor @ 50 Hz	B	0.8 lead @ at 60 V, 5A
17	Harmonics in Current Circuit	R	5 A :7th harmonic
18	THD in Current Circuit	3ph	at 5A :3rd, 5th, 7th, 11th & 13th
19	Harmonics in Voltage Circuit	R	240V :3rd harmonic
20	THD in Voltage Circuit	3ph	at 240V :3rd, 5th, 7th, 11th & 13th
21	Frequency	3ph	70 HZ
			CMC %
			Charges
			0.0056/PF
			0.0056/PF
			0.0056/PF
			0.0056/PF
			0.0070/PF
			0.0056/PF
			0.0056/PF
			0.0070/PF
			0.013
			0.013
			0.013
			0.009
			0.009
			0.0002
			0.0002
			0.0002
			0.504
			0.504
			0.504
			0.504
			0.004

<b>MSEDCL's TQA LABORATORY, PUNE.</b>				
ILC Parameters		(Artifact: Portable Reference Standard, Zera Make, MT310)		
Traceability of Master Equipment of service provider				
Class of Master Equipment of service provider		<b>CMC Against ERS 0.005</b>		
Instrument calibration due date				
S.No.	Parameter	Phase	Point	Charges
1	AC Active Energy @ 49.5 Hz	3Ph	63.5 V, 1 A, 0.8 lead (Direct mode)	0.0039/PF
2	AC Active Energy @ 50.5 Hz	3Ph	63.5 V, 5 A, 0.5 lag (Direct mode)	0.0039/PF
3	Active Energy @ 50 Hz	3Ph	60V, 1 A, 0.5lag (Direct mode)	0.0039/PF
4	Reactive Energy @ 50 Hz	3Ph	60V, 10 A, 0.8 lead (Direct mode)	0.0039/PF
5	Apparent Energy @ 50 Hz	3Ph	240 V, 60A, 0.8Lead (Clamp ON mode)	0.0064/PF
6	Active Power @ 50 Hz	3Ph	240 V, 40A, UPF (Clamp ON mode)	0.0050/PF
7	Reactive Power @ 50 Hz	3Ph	60V, 10 A, 0.5lag (Direct mode)	0.0039/PF
8	Apparent Power @ 50 Hz	3Ph	60V, 1 A, 0.8 lead (Direct mode)	0.0050/PF
9	AC Current @ 50 Hz	R	5 A (Direct mode)	0.009
10	AC Current @ 50 Hz	Y	1 A (Clamp ON mode)	0.009
11	AC Current @ 50 Hz	Y	50 A (Clamp ON mode)	0.009
12	AC Voltage @ 50 Hz	R	60 V	0.006
13	AC Voltage @ 50 Hz	B	240 V	0.006
14	Power Factor @ 50 Hz	R	0.5 lag @ 240 V, 10 A (Clamp ON mode)	0.0001
15	Power Factor @ 50 Hz	Y	UPF @ 60 V, 1 A	0.0001
16	Power Factor @ 50 Hz	B	0.8 lead @ at 60 V, 5A	0.0001
17	Harmonics in Current Circuit	R	5 A :7th harmonic	0.503
18	THD in Current Circuit	3ph	at 5A :3rd, 5th, 7th, 11th & 13th	0.503
19	Harmonics in Voltage Circuit	R	240V :3rd harmonic	0.503
20	THD in Voltage Circuit	3ph	at 240V :3rd, 5th, 7th, 11th & 13th	0.503
21	Frequency	3ph	70 HZ	0.002

Date: - 27.08.2024

Ref No.- QTN/NI/MSEDCL /2024-25/001

To,

**M/s.** Mr. D.K. Korde  
Executive Engineer,  
MSEDCL, TQA Lab,  
Testing Division, Kolhapur.

**Sub:** - Quotation for Calibration of Process Control Equipments.

Dear Sir,

We are pleased to submit our lowest quotation. Our masters having traceable to National Standard. All calibration will be done as per IS / ISO / QS certification. Our Laboratory is accredited by NABL New Delhi.

Sr. No.	ITEM Description	Qty	Rate (Rs.)
01	Dry and Wet bulb Thermometer	01	2500/-
	For 4-point calibration		
02	Digital LUX Meter	01	6500/-

**Terms & Conditions:** 1) 100 % payment against delivery.  
2) GST 18 % will be extra on calibration charges.  
3) Calibration will be done in our Lab only.  
4) Work will be carried out after receipt of PO.  
5) If item required calibrate at our Premises, collection & Delivery will be your responsibility, & charges of the same on your account.

All above rates are for calibration with certification with traceability certificates.

Thanking You, we remain.

Yours Faithfully,

**FOR NISHITRONICS INSTRUMENTATION**



**Mr. V. B. HINGMIRE ( CEO )**



**Flat no.1, Gurukrupa Building, plot No. 113, Mahesh Co-op Hsg. Soc., Bibwewadi,  
Pune- 411037. GST No.- 27AAZPH0020L1ZK, SAC CODE- 998346.**

**Tel. : 020- 24412615, Mob.- 9822910956 Email : nishitronics@hotmail.com**