Circular No.:	**2017/DCC/COM-01**
Date of Issue:	**2017/01/01**
Reference to Previous Circulars (if any):	**2016/DCC/COM-4 Dated 2016/02/01**
Issued By & Reference No.	**Addl. GM DD1** **Chairman Distribution Coordination Committee**
Title of Circular	**Standard Construction Cost - 2017**

All Provincial DGMM,

Standard Construction Costs -2017

The "Standard Construction Cost – 2017", applicable with effect from 2017-01-01 is sent herewith for your information and necessary action please. This Circular will repeal all the previous circulars on "Standard Construction Cost" **(All estimates which have been issued already based on Standard Construction Cost – 2016 will be valid only for a period of 30 days after issuance)**

1. LABOUR RATES FOR STANDARD CONSTRUCTION COSTS

The Standard Costs shall be used only for new construction works at provinces since the Workmen Recovery Rate and the Overhead Recovery Rate for the provinces are computed on the following basis.

New Constructions 80% of the work is done by the private contractors and the balance 20% by the CEB direct labour.

Service Connections 90% of the work is done by the private contractors and the balance 10% by the CEB direct labour.

On this basis the following labour rates & overhead recovery rates are used for the calculation of Standard Costs.

(a). Labour Recover Rate

i. **New Construction Works** - **Rs. 305 /- per labour hour**

ii. **Service Connection works** - **Rs. 275 /- per labour hour**

(b). Overhead Recovery Rate

i. **New Construction Works** - **Rs. 137 /- per labour hour**

ii. **Service Connection Works** - **Rs. 250 /- per labour hour**

2. LABOUR & OVERHEAD RECOVERY RATES FOR OTHER CEB WORKS

For all other jobs except new construction works the following rates shall be applied.

Labour Recovery Rate - **Rs. 348 /- per labour hour**

Overhead Recover Rate - **Rs. 250 /- per labour hour**

3. STANDARD CONSTRUCTION COSTS

All Standard Construction Costs for the year 2017 are included in section 1 to 13 of the attached Standard Construction Cost – 2017.

4. OTHER CHARGES

Other Charges for miscellaneous services for the year 2017 are included in section 14 of the attached Standard Construction Cost – 2017.

Eng. P.C.C. Perera
Addl. General Manager, DD1
Chairman- Distribution Coordination Committee

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CEYLON ELECTRICITY BOARD

STANDARD CONSTRUCTION COST 2017

CONTENTS

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STANDARD CONSTRUCTION COST – 2017

1) LV NEW LINES / CONVERSIONS / COMBINED RUNS

1.1 LV New Lines

All the LV lines shall be of three (3) phase construction. As per the DCC Circular 2015/DCC/COM-4 dated 2015/09/30, all LV line construction shall be ABC except the lines drawn in coastal areas.

1.1.1 Bulk supply connections and all other third party construction works

1.1.1.1 Aerial Bundled Conductor (ABC) LV line cost per km

Following rates are applicable for Bulk Supply connections, Property Developers and all other third party construction works.

Conductor	3x95+70mm^2	3x70+54.6mm^2	3x70+54.6+16mm^2	3x95+70+16mm^2
Cost (Rs)	1,844,000.00	1,460,000.00	1,571,000.00	1,920,000.00
Second Circuit cost (Rs)	1,335,000.00	929,000.00	-	-

1.1.1.2 Bare Overhead LV line cost per km

Conductor	FLY - 7/3.40 mm, 3 Phase	WASP- 7/4.39 mm, 3 Phase
Cost (Rs)	1,257,000.00	1,392,000.00
Second Circuit cost (Rs)	599,000.00	707,000.00

1.1.2 RE schemes funded through Decentralized, Provincial Council Budgets and similar RE Schemes

Following rates are applicable only for LV lines funded through the **Decentralized Budget, Provincial Council Budget** and **similar Rural Electrification schemes**.

1.1.2.1 Aerial Bundled Conductor (ABC) Lines

Conductor	3x95+70mm^2	3x70+54.6mm^2	3x70+54.6+16mm^2	95x3+70+16mm^2
Cost (Rs)	1,769,000.00	1,385,000.00	1,496,000.00	1,845,000.00
Second circuit cost (Rs)	1,260,000.00	854,000.00	899,000.00	1,248,000.00

1.1.2.1 Bare Overhead Lines

Conductor	FLY - 7/3.40 mm, 3 Phase	WASP- 7/4.39 mm, 3 Phase
Cost (Rs)	1,182,000.00	1,317,000.00
Second Circuit cost (Rs)	524,000.00	632,000.00

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1.2 LV Line Conversion - Cost per km

Conductor	FLY - 7/3.40 mm, 3 Phase		WASP- 7/4.39 mm, 3 Phase
	1 Ph. to 3 Ph.	2 Ph. to 3 Ph.	Changing Conductor 3 Ph. Fly
Cost (Rs)	389,000.00	280,000.00	348,000.00

1.3 Combined run of LV Line on existing MV Line

1.3.1 Bulk Supply Connections, Property Developers and all other third party construction works

Following rates are applicable for Bulk Supply connections, Property Developers and all other third party construction works:

Conductor	FLY 7/3.40mm 3 Ph.	WASP 7/4.39mm 3 Ph.	ABC 70x3+54.6mm^2 3 Ph.	ABC 95x3+70mm^2 3 Ph.
Combined Run on 11kV/33kV line cost (Rs)	779,000.00	924,000.00	939,000.00	1,323,000.00

1.3.2 RE Schemes funded through Decentralized, Provincial Council Budgets and similar RE Schemes

Following rates are applicable only for LV lines funded through the Decentralized Budget, Provincial Council Budget and similar Rural Electrification schemes:

Conductor	FLY 7/3.40 mm 3 Ph.	WASP 7/4.39 mm 3 Ph.	ABC 70x3+54.6 mm^2 3 Ph.	ABC 95x3+70 mm^2 3 Ph.
Combined Run on 11kV/33kV line cost (Rs)	704,000.00	849,000.00	864,000.00	1,248,000.00

Note
The above costs include the cost of additional intermediate LV poles required to support the LV feeder.

1.4 Combined run of LV Line on new MV Line

1.4.1 Bulk Supply Connections, Property Developers and all other third party construction works

Following combined run rates are applicable for Bulk Supply connections, Property Developers, and all other third party construction works:

Conductor	FLY 7/3.40 mm 3 Phase	WASP 7/4.39 mm 3 Phase	ABC 70x3+54.6 mm^2 3 Phase	ABC 95x3+70mm^2 3 Phase
Combined Run on 11kV/33kV line cost (Rs)	604,000.00	669,000.00	790,000.00	1,173,000.00

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1.4.2 RE Schemes funded through Decentralized, Provincial Council Budgets and similar RE Schemes

Following rates are applicable only for LV lines funded through the Decentralized Budget, Provincial Council Budget and similar Rural Electrification schemes:

Conductor	FLY 7/3.40 mm 3 Phase	WASP 7/4.39 mm 3 Phase	ABC 70x3+54.6 mm^2 3 Phase	ABC 95x3+70mm^2 3 Phase
Combined Run on 11kV/33kV line cost (Rs)	529,000.00	594,000.00	715,000.00	1,098,000.00

Note
Span of MV lines are reduced to the span required for LV. Therefore, no LV poles introduced in between MV Poles.

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2) MV LINE - COST PER km.

(These rates are applicable only for Pole Line Constructions)

2.1 Bare Conductors MV Line Cost per km.

Since 45 m span is used in MV construction, it may be economical to use 10.0 m (RC or PS) pole in MV construction. PS 11.0 m poles may be used in special construction where clearances cannot be maintained by 10.0 m poles. (E.g. Road crossings, Urban areas)

2.1.1 11 kV Network

Code	7/4.09 mm RACOON	37/2.79 mm LYNX	19/3.76 mm ELM
Single Circuit on 10m Pole Cost (Rs)	2,119,000.00	-	-
Single Circuit on 11m Pole Cost (Rs)	2,318,000.00	3,509,000.00	3,197,000.00
Single Circuit on 13m Pole Cost (Rs)	2,396,000.00	3,885,000.00	3,720,000.00
Double Circuit on 13m Pole Cost (Rs)	-	7,053,000.00	6,325,000.00

2.1.2 33 kV Network

Code	7/4.09 mm RACOON	37/2.79 mm LYNX	19/3.76 mm ELM
Single Circuit on 10m Pole Cost (Rs)	2,353,000.00	-	-
Single Circuit on 11m Pole Cost (Rs)	2,507,000.00	3,701,000.00	3,374,000.00
Single Circuit on 13m Pole Cost (Rs)	2,608,000.00	4,171,000.00	3,827,000.00
Double Circuit on 13m Pole Cost (Rs)	-	7,694,000.00	6,831,000.00

2.2 Aerial Bundled Conductors (ABC) MV Line Cost per km.

Since 35 m LV span is used in MV ABC construction, it may be economical to use 11.0 m PS pole in MV construction. 13.0 m PS poles may be used in special construction where clearances cannot be maintained by 11.0 m poles. (E.g. Road crossings, Urban areas)

2.2.1 11 kV Network

Line	95mm^2 ABC	150mm^2 ABC
Single Circuit on 11 m Pole Cost (Rs)	6,112,000.00	7,407,000.00
Double Circuit on 11m Pole Cost (Rs)	-	12,427,000.00

2.2.2 33 kV Network

Line	95mm^2 ABC	150mm^2 ABC
Single Circuit on 11 m Pole Cost (Rs)	6,663,000.00	8,365,000.00
Single Circuit on 13 m Pole Cost (Rs)	-	9,569,000.00
Double Circuit on 11 m Pole Cost (Rs)	-	14,272,000.00
Double Circuit on 13 m Pole Cost (Rs)	-	15,375,000.00

Note

Please note that the DCC emphasized that MV Aerial Bundled Conductors should never be used in CEB network without the prior approval of the respective Additional General Managers attached to the relevant Distribution Divisions.

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3) COSTS FOR OUTDOOR TYPE DISTRIBUTION SUBSTATIONS.

Substation Type	100 kVA	160 kVA	250 kVA
11kV / LT (Rs)	1,230,000.00	1,368,000.00	1,610,000.00
33kV / LT (Rs)	1,326,000.00	1,461,000.00	1,686,000.00

Note

The above costs are inclusive of the followings:

i) Three Nos. of Pin Insulators, Tension Insulator Sets (on line side) and all other material costs.
ii) Two sets of Fuse Switch Disconnectors (3ph. unit with Neutral Link) on LV side for two feeders.
iii) PVC Tail Wires (80m long) from the Transformer LV Terminal to Fuse Switch Disconnectors for the two LV Feeders.
iv) Connection Clamps (Crimp Type Sockets at the LV Terminal of the transformer, Fuse Switch Disconnectors and Bimetallic Clamps at the LV feeders).
v) Substation metering set with metal enclosure.
vi) Concrete Earthing blocks (Four numbers) including earth rods, Exothermic welding materials, compression connectors, Earth mesh and 25m of 50 mm^2 PVC Sheathed conductors.

Therefore the costs for the above items need not be added to the Standard Costs when a quotation for a Distribution Substation is prepared.

4) COST FOR PROVISION OF BULK SUPPLY (OUTDOOR)

	100 kVA	160 kVA	250 kVA	400 kVA	630 kVA	800 kVA	1000 kVA
11kV	1,190,000.00	1,411,000.00	1,637,000.00	2,051,000.00	2,845,000.00	3,305,000.00	3,874,000.00
33kV	1,300,000.00	1,525,000.00	1,722,000.00	2,247,000.00	3,065,000.00	3,415,000.00	4,077,000.00

* All values are in Rupees

The above cost schedule is inclusive of the costs of the following items too:

i) Current Transformers
ii) MCCBs.
iii) Crimp type Sockets (at the Transformer LV Terminals and MCCBs)
iv) PVC insulated Cu Cables (10m distance from Transformer LV Terminals to the MCCB)
v) Bulk Supply Meter Box.
vi) 4 Nos. of Concrete Earthing System with 50 mm^2 Cables (30m) with compression lugs, Earth rods and exothermic materials

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In the event of additional PVC Cables are required, the cost of such cables shall be added to the above standard construction costs without adding extra labour and overhead costs.

The customer shall provide the transformer plinth and meter cubicle for housing bulk supply meter box and MCCB. (Transformer plinth and the meter cubicle could either be a combined type or separate type as required.)

If a new MV line has to be constructed for a bulk supply, 50% of the MV line construction cost up to the customer boundary shall be charged from the customer and the rest of the cost has to be borne by CEB under system augmentation funds. If any MV line length is constructed within the customer premises, the total cost of constructing that line length shall be charged from the customer.

5) COST OF AUGMENTATION OF OUTDOOR DISTRIBUTION SUBSTATIONS (11 kV/LV, 33 kV/LV)

Existing Transformer	**100 kVA**	**160 kVA**
Rating of augmented Substation Transformer kVA		
160, 11 kV (Rs)	254,000.00	-
160, 33 kV (Rs)	288,000.00	-
250, 11 kV (Rs)	481,000.00	333,000.00
250, 33 kV (Rs)	499,000.00	351,000.00

* All Values are in Rupees

Note

The above Standard Costs are computed allowing for a rebate (100%) on the existing Transformer based on 2017 prices.

This cost includes the cost for augmentation of transformer, labour and transport, contingency and overhead charges. If the available fuse switch cut-outs are not in working condition, they shall be replaced and the cost of such items shall be met from the maintenance vote.

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6) COST FOR AUGMENTATION OF OUTDOOR BULK SUPPLY CONNECTIONS (11 kV/LV 33 kV/LV) WHICH INVOLVES SUBSTATIONS

Existing Transformer		63 kVA	100 kVA	160 kVA	250 kVA	400 kVA	630 kVA	800 kVA
Rating of augmented Transformer (kVA/kV)								
100	11 kV	484,000	-	-	-	-	-	-
100	33 kV	522,000	-	-	-	-	-	-
160	11 kV	706,000	292,000	-	-	-	-	-
160	33 kV	744,000	306,000	-	-	-	-	-
250	11 kV	931,000	516,000	310,000	-	-	-	-
250	33 kV	942,000	504,000	283,000	-	-	-	-
400	11 kV	1,348,000	933,000	727,000	504,000	-	-	-
400	33 kV	1,472,000	1,033,000	812,000	615,000	-	-	-
630	11 kV	2,142,000	1,728,000	1,522,000	1,299,000	881,000	-	-
630	33 kV	2,289,000	1,851,000	1,630,000	1,433,000	904,000	-	-
800	11 kV	2,602,000	2,188,000	1,981,000	1,759,000	1,341,000	556,000	-
800	33 kV	2,639,000	2,201,000	1,980,000	1,783,000	1,254,000	445,000	-
1000	11 kV	3,191,000	2,776,000	2,570,000	2,347,000	1,929,000	1,145,000	685,000
1000	33 kV	3,301,000	2,863,000	2,642,000	2,445,000	1,916,000	1,107,000	758,000

*All Values are in Rupees

Note

The above Standard Costs are computed allowing for a rebate (100%) on the existing transformer, MCCB and cables, based on 2017 prices (except in the case of augmenting 63 kVA Substation).

The cost of meter sets shall be charged only if there is no bulk supply meter set at present.

The costs of new MCCBs, connecting sockets, PVC Tail Wires/Cables, labour and overheads are included in the above Standard Costs.

7) COST OF INSTALLATION OF MV SPUR LINE TAPPING WITH EXPULSION FUSES ON DOUBLE POLE STRUCTURE

11 kV cost (Rs)	251,000.00
33 kV cost (Rs)	276,000.00

8) COST OF INSTALLATION OF LOAD BREAK SWITCH WITH LOAD INTERRUPTERS ON DOUBLE POLE STRUCTURE

	Air Insulated	SF6 Manual	SF6 Remote Operation
11 kV cost (Rs)	719,000.00	845,000.00	1,451,000.00
33 kV cost (Rs)	755,000.00	1,272,000.00	1,664,000.00

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9) COST OF INSTALLATION OF AUTO-RECLOSERS

	With Remote Operation
11 kV cost (Rs)	1,971,000.00
33 kV cost (Rs)	2,254,000.00

10) COST OF INSTALLATION OF MV METERING EQUIPMENT

11 kV cost (Rs)	1,128,000.00
33 kV cost (Rs)	1,358,000.00

11) COST OF INSTALLATION OF GUARD

Cradle Guard (20m span with 3m width)

11 kV cost (Rs)	85,000.00
33 kV cost (Rs)	95,000.00

Note
Poles are not included in the above Item 11.

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12) SERVICE CONNECTIONS (OVERHEAD)

12.1 Overhead Service Connections for Domestic and Religious (Up to 42 kVA)

12.1.1 Single Phase up to 50 m

Type	Fixed Cost
30A	Rs. 17,000.00

12.1.2 Single Phase beyond 50 m

CEB shall bear the cost of development of the network up to the boundary of the land of customer. Above fixed cost will also include the cost of service connection up to 50 m from the boundary inside the customer premises. Length in excess of 50 m up to 110 m inside the premises will be charged at Rs 700/m. Cost of the service connection beyond 110 m inside the premises shall be borne by the customer at Rs 975/m.

12.1.3 Three Phase Up to 50 m

Type	Fixed Cost
30 A	Rs. 32,000.00
60 A	Rs. 38,000.00

12.1.4 Three Phase Beyond 50 m

CEB shall bear the cost of development of the network up to the boundary of the land of customer. Above fixed cost will also include the cost of service connection up to 50m from the boundary inside the customer premises. Cost of the service connection beyond 50m inside the premises shall be borne by the customer at Rs 1460/ m.

12.1.5 Single Phase to Three Phase conversion

Existing Service	Fixed Cost	
	30 A 3 Phase	60 A 3 Phase
30 A, 1 Phase	Rs. 32,000.00	Rs. 38,000.00
30 A, 3 Phase	-	Rs. 25,000.00

Note

If conversion of existing distribution line is necessary, CEB shall bear the cost of development of the network up to the boundary of the land of customer. Above fixed cost will also include the cost of service connection up to 50 m from the boundary inside the customer premises. Cost of conversion of service connection beyond 50 m inside the premises shall be borne by the customer at Rs 1,460/m for LV line with 3x70+54.6mm^2 ABC feeder and Rs 1,844/m for LV line with 3x95+70mm^2 ABC feeder as applicable.

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12.2 Overhead Service Connections for other Tariff Categories (Up to 42 kVA)

12.2.1 Single Phase up to 50m

Type	Fixed Cost
30A	Rs. 17,000.00

12.2.2 Single Phase beyond 50 m

CEB shall bear the cost of development of the network up to the boundary of the land of customer. Above fixed cost will also include the cost of service connection up to 50 m from the boundary inside the customer premises. Length in excess of 50 m up to 110 m inside the premises will be charged at Rs. 700/m. Cost of the service connection beyond 110 m inside the premises shall be borne by the customer at Rs 975/ m.

12.2.3 Three Phase Connection from Existing (Low Voltage) Network

12.2.3.1 Three Phase Connection up to 42 kVA
(Other than Welding Plants, Metal Crushers, Saw Mills etc.)

Type	Fixed Cost	Variable Cost (Applicable for distance beyond 50m offline)	
		3x70+54.6mm^2 ABC Feeder	3x95+70mm^2 ABC Feeder
30A	Rs. 32,000.00	Rs. 1,460/m	Rs. 1,844/m
60A	Rs. 38,000.00	Rs. 1,460/m	Rs. 1,844/m

Note
Cost of any Augmentation work required has to be borne by CEB.

Single phase to three phase conversion cost up to the connection point of existing network if required, to be borne by CEB.

Depending on the requested capacity, the service connections can be given from Aerial Bundled Conductors up to a maximum distance as specified below:

ABC Feeder	3x70+54.6mm^2			3x95+70mm^2		
Connection	3 Phase		1 Phase	3 Phase		1 Phase
	60 A	30 A	30A	60 A	30 A	30A
Recommended maximum length (m)	400	800	350	550	1,100	450

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12.2.3.2 Service Connection to Welding Plants, Metal Crushers, Saw Mills etc. from existing (Low Voltage) Network (up to 42 kVA)

In providing service connections to installations having equipment such as Welding Plants, Metal Crushers, Saw Mills etc., which could have adverse effects on the other customers connected to the existing feeder, a separate feeder has to be constructed and the capital cost has to be charged as per the table given below. For connections beyond 50m off the existing line route, a variable cost will be charged. If service starts from the transformer, fixed cost is charged up to 50 m distance, CEB has to draw three phase line up to 50 m. The customer has to pay the line construction cost beyond 50m up to the premises where electricity service required at a rate of Rs 1,460/m for LV line with 3x70+54.6mm^2 ABC feeder and Rs 1,844/m for LV line with 3x95+70mm^2 ABC feeder.

A separate Aerial Bundled Conductor Line (3x70+1x54.6mm^2 or 3x95+1x70mm^2 as required) shall be drawn in the existing line / new line when providing such service connections.

(i). The above service connections shall not be given from normal customer distribution lines.

(ii). A part of the capital cost of the new line has been included in the fixed cost.

(iii). When providing the connection to the First customer, CEB has to bear the balance cost of the feeder as the customer will pay only his share as given in the table below. The balance expenditure shall be charged to the System Augmentation Funds.

(iv). The fixed cost for different categories of service connections are given in the table below.

(v). Charges listed here are decided considering the network development cost of providing the connection. Therefore no limitation shall be applied for new connections based on the distance from the substation. Network development needed for giving new connections shall be implemented through system augmentation budget.

(vi). The costs indicated below are valid only for the feeder section constructed on the existing poles parallel to an existing feeder. If it is required to install poles to get the connection off the existing feeder or extend the existing feeder the length from the T-off or the point of extension to the customer point shall be charged as per 12.2.3.1 above.

The fixed cost for different categories of service connections are given in the table below:

Size of the service connection	60A, 3 Phase	30A, 3 Phase	30A, 1 Phase
No. of service connections (allowable)	2	4	4
Fixed cost per service connection (up to 50 m) to be charged from the customer	Rs.250,000.00	Rs. 150,000.00	Rs.100,000.00

The allowable lengths for the connections are shown in the table below:

ABC Feeder	3x70+54.6mm^2			3x95+70mm^2		
Connection	3 Phase		1 Phase	3 Phase		1 Phase
	60 A	30 A	30A	60 A	30 A	30A
Recommended maximum length (m)	400	800	350	550	1,100	450

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12.2.4 Single Phase to Three Phase Conversion (For other Tariff categories)
(Other than Welding Plants, Metal Crushers, Saw Mills etc.)

Existing Service	Fixed Cost		Variable Cost (Applicable for distance beyond 50m offline)	
			3x70+54.6mm^2 ABC Feeder	3x95+70mm^2 ABC Feeder
	30 A 3 Phase	60 A 3 Phase		
30 A, 1 Phase	Rs. 32,000.00	Rs. 38,000.00	Rs. 1,460/m	Rs. 1,844/m
30 A, 3 Phase	-	Rs. 25,000.00	Rs. 1,460/m	Rs. 1,844/m

Fixed Costs
The fixed costs include the cost of MCCB or MCB, Meter Box, length of service wire & D-brackets required.

Variable Costs
Variable costs include the cost of the service beyond 50m length and line material such as poles, D-brackets, Stays, Struts etc., as applicable.

A suitable service bracket shall be provided and installed by the customer.

Note

Charges listed above in 12.1 & 12.2 are decided considering the network development cost of providing the connections. Therefore no limitation shall be applied for new connections based on the distance from the substation. Network development needed for giving new connection shall be implemented through system augmentation budget.

12.3 Three phase connections above 42 kVA up to 95 kVA

12.3.1 New Service Connections

The following rates are applicable for provision of connections from the existing LV network:

Type	Fixed Cost	Variable Cost
70 kVA (with Bulk Supply Metering)	Rs. 470,000.00	Rs.1,844.00 / m
95 kVA (with Bulk Supply Metering)	Rs. 570,000.00	Rs.1,844.00 / m

Note

i) Fixed cost listed here includes the cost of providing the requested supply inclusive of metering equipment.

ii) Variable cost shall be charged only for the connections beyond 50m off the existing low voltage line at the given rates.

iii) However, the total low voltage line lengths shall be less than 200 m for 70 kVA connections and 100 m for 95 kVA connections from the substation.

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iv) If the customer premise is beyond the specified length above, a new substation has to be constructed to provide the requested supply. The cost involvement to construct the substation (excluding MV line) shall to be borne by CEB.

v) A portion of the cost of the Medium Voltage (MV) line shall be charged from the applicant as given below:

- CEB shall bear 50% of the cost of the MV line from the existing MV network to the boundary of the land of the customer. The balance 50% of the cost of the MV line has to be paid by the customer.
- The full cost of the MV line beyond the boundary of the land of the customer to the location of the substation shall be paid by the customer.
- The relevant CEB cost components shall be covered from the System Augmentation funds.

12.3.2 Cost of Augmentation of Three Phase Connection - Above 42 kVA up to 95 kVA

Existing kVA	**63 kVA**	**70 kVA**	**75 kVA**
Augmented kVA			
70 kVA	Rs. 150,000.00	-	-
95 kVA	Rs. 250,000.00	Rs. 100,000.00	Rs. 80,000.00

Note

Any request for Augmentation for 100 kVA and above shall be charged at the rates given in Clause 4 of this circular deducting any cost of material which are recoverable such as MCCB and Cables.

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Guidelines for Preparation of Estimates.

(i) Measurement of the Service Connection Length.

The Service Connection Length is the Horizontal Distance (Ground Distance) from the Pole to the Service Bracket at the customer's premises. No. allowance shall be added for the Sag or Down Run.

However, lengths of Service Wire shall be issued on the basis of actual length required to construct the Service Connection including Sag and the Down Run.

Fixed cost charged from the customer includes the cost of the length of service wire required for Sag and the Down Run.

(ii) Insulated Wires for Three Phase Service Connections

Three Phase Service Connection shall be connected with a Twin Flat Service Main Wire both core insulated (Black and Gray for two Phases) and a Duplex Service Main Wire (Third phase Brown and other Conductor for neutral).

If there is a shortage of Twin Flat Service Main Wire both core insulated, Single Core Insulated Wire may be used.

(iii) Last Span

In all categories of service connections the last span shall generally not exceed 30m, however in special circumstances it may be appropriate to change the last span slightly with the approval of the engineer concerned.

(iv) Service Connections for Customers beyond 1.8 km from the Distribution Substation

Distribution feeders shall not be extended beyond 1.8 km from the distribution substation to provide service connections.

Note

Variable Cost mentioned in 12.1 & 12.2 above are prepared based on Standard Construction Cost for LV lines.

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13) SERVICE CONNECTIONS (UNDERGROUND) UP TO 42 KVA

		15 A	30A	60A
1.	**Underground Service Single Phase**			
1.a)	Fixed cost(include the cost of cable up to 5m length along the trench)	Rs. 50,000.00	Rs. 50,000.00	-
1.b)	Variable cost (16mm^2/2C Al. Cable) per meter length (for distance beyond 5m length)	Rs.4,100.00	Rs. 4,100.00	-
2.	**Shifting Service (U.G.) Single Phase**	**Detailed estimate shall be prepared.**		
3.	**Three Phase Service Connection**			
3.a)	Fixed Cost *	-	Rs. 91,500.00	Rs. 100,000.00
3.b)	Variable Cost **	-	Rs. 4,900.00	Rs. 5,000.00
	Note: According to the length of the service connection the size of the cable shall be selected.			

* Fixed Cost for Three Phase 30A is calculated considering the connection is given from Mini Feeder Pillar and the fixed cost includes termination kit, 1/5th of mini feeder pillar cost, costs of labour, transport and overhead. Fixed Cost for Three Phase 60A is calculated considering the connection is given from LV Underground Distributor and the fixed cost includes termination kit, 1/4th of LV Underground Distributor cost, costs of labour, transport and overhead. Both fixed costs are up to a length of 5m from boundary inside the customer premises.

** Variable Cost for Three Phase 30A is calculated including the cost of 35mm^2 XLPE, Al cable and Variable Cost for Three Phase 60A is calculated including the cost of Al cable. Variable Costs shall be charged for distance beyond 5m length inside the premises.

Note

Additional Cable length of 5m required to connect to the Mini Feeder Pillar after the trench and along the wall at the customer's end to connect to the MCB/MCCB is included in the fixed cost. Hence 5m length specifically mentioned in the fixed cost is the length of the cable to be laid in the trench.

The above fixed cost includes the cost of cable up to 5m from boundary inside the customer premises. Variable cost will only be charged for length of cable beyond 5m distance. For Domestic & Religious customers CEB shall bear variable cost up to the boundary of the premises from mini feeder pillar/the distributor under System Augmentation Fund.

4.	**Shifting Service (U.G.) Three Phase**	**Detailed estimate shall be prepared.**		
5.	**Single Phase Loop Service**			
5.a)	Fixed Cost (up to 2 m distance)	Rs. 6,400.00	Rs. 6,400.00	-
5.b)	Variable Cost	Rs. 250/m	Rs. 250/m	-

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6.	**Three Phase Loop Service**	**15 A**	**30A**	**60A**
6.a)	Fixed Cost (up to 2 m distance)	Rs. 19,000.00	Rs.19,000.00	Rs.21,000.00
6.b)	Variable Cost	Rs. 600/m	Rs. 600/m	Rs. 1,100/m

Policy for recovering cost in new three phase connection

When a three phase service is given from the UG network (Other than 15 A, 3P service from an existing cable at the building) following capital costs (Mini feeder pillar and associated items) are charged from the customers as follows.

	Capital Cost	**Remarks**
a) 30A, 3ph connection from existing UG network MFP	Rs. 20,300.00	1/5th of the total cost of
b) 60A, 3ph connection from existing UG network MFP	Rs. 25,400.00	1/4th of the total cost of

*MFP – Mini Feeder Pillar

When providing the connection to the first customer, the balance expenditure shall be charged to the System Augmentation Vote.

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14) OTHER CHARGES.

Other charges for miscellaneous services

No	Types of Charge	Charge (Rs.)
1.	Disconnection at the customer's request	1,100.00
2.	Reconnection at the customer's request	1,100.00
3.	Reconnection after a statutory disconnection	1,100.00
4.	Testing of an energy meter used at 230 V	1,650.00
5.	Testing of a three phase energy meter (less than 42 kVA)	3,000.00
6.	Testing of an energy or energy/demand meter and associated equipment used at 400 V	11,000.00
7.	Testing of an energy or energy/demand meter associated equipment (used at voltages higher than 400 V)	11,000.00
8.	Installation testing	CCE
9.	Changing an account name and/or the tariff category	Free of charge
10.	Changing an energy or energy/demand meter	Free of charge for changing defective meters. For other cases CCE shall apply.
11.	Provision of temporary electricity supply	CCE
12.	Augmentation of an existing electricity supply	CCE
13.	Issuing an estimate for shifting of poles/lines/transformer/any other electrical plant	2,500.00 (Deductible from the estimate)
14.	Clearing of way leaves	CCE based on compensation charges decided by Divisional Secretaries and cost of removing way leaves.
15.	Issuing a clearance report	10,000.00 (Deductible from the estimate)
16.	Issuing a duplicate bill	Free of charge
17.	Grid interconnection of generation facility	CCE
18.	Delays in Payment – Bulk Supply Customers 15 days after issuing the bill to the customer, a monthly interest rate of 1.09% will be charged to the bill from the 16th day onwards. If customer fails to pay the bill and interest thereon within 30 days from issuing the bill, supply will be disconnected upon disconnection order. Reconnection of the supply will be given upon the payment of outstanding amount together with 1.09% interest on the outstanding amount until the day of reconnection and Reconnection processing fee.	
19.	Delays in Payment – Ordinary Supply Customers After 30 days period, if a disconnection order is issued, a monthly interest rate of 1.09% will be charged from the customer on the outstanding amount effective from the date of issuing the disconnection order. If supply is disconnected, reconnection of the supply will be given upon the payment of outstanding amount together with interest and a reconnection processing fee.	

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20.	Repair of damages to Service connection wire Responsibility of removing way leaves along the path of service connection wire rests with the customer. Cost of repair to service wire damaged due to non-removal of way leaves shall be charged from the respective customers.	CCE
21.	Connection Charges for Net Metering/Net Accounting/Net Plus Schemes Application Processing Charge (Rs) 1 Phase Connection Cost (Rs) 3 Phase Connection Cost (Rs)	 2,000.00 5,000.00 12,500.00
22.	Standard Rate for Ordinary Supply Customers to change over to the time of day tariff, one time charge for re programming the meter. The existing single rate meter shall be replaced with Programmable 3 phase 3 wire meter free of charge.	10,000.00
23.	Issuing a duplicate bill	Free of charge
24	Shifting of Bulk Supply Connection	As per DCC Circular 2016/DCC/COM-12 dated 2016/07/13.
25	Professional fee of independent professional who conduct investigations for the purposes of individual power quality assessment under section 36(a) of Electricity (Distribution) Performance Standard Regulations (The customer who applies for investigation shall make a deposit equal to this amount to the distribution licensee for individual power quality assessment)	10,000.00
26	Re-fixing of finalized accounts	CCE (Excluding Meter Cost)

*CCE – Case by Case Estimation by the Licensee based on Standard Construction Cost – 2017 and Price List of Materials 2017 issued by CEB.

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