

Circular No.	2022/GM/16 /DCC DCC Circular: 2022/DCC/COM-04
Date of Issue:	March 21, 2022
Reference to Previous Circulars (if any):	2021/DCC/COM- 07 issued on 2021.03.29 2017/DCC/COM -11 issued on 2017.05.17
Issued By & Reference No.	Addl. GM DD4 Chairman, Distribution Coordination Committee
Title of Circular	Standard Construction Costs - 2022
Circulars repealed by this Circular	2021/GM/17/DCC (2021/DCC/COM-08) issued on 2021.03.29

All Provincial DGMs,

STANDARD CONSTRUCTION COSTS -2022

The “Standard Construction Costs – 2022”, applicable with effect from April 01, 2022 is sent herewith for your information and necessary action please. This Circular will repeal Circular 2021/GM/17/DCC (2021/DCC/COM-08) issued on 2021-03-29.

1. INTRODUCTION

Standard Construction Costs – 2022 provides standardized charges for standard services offered by CEB. Customer requests are to be investigated and standard estimates are to be issued based on the rates provided within this circular.

It is to be noted that no additional charges for any other items such as poles, concreting, etc. should be levied on the customer to provide services included in this circular, unless stated otherwise.

For any non-standard service, estimates are to be prepared on case-by-case estimate as per the approved standard material prices & labour rates.

2. 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.

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

New Constructions : (New & System augmentation jobs in line constructions, UG cable laying and substation constructions fall on to this category. UG Substation construction works, HT metering unit installation and other work where 100% CEB labour is involved should be estimated on CEB labour rates.)

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 Recovery Rate

- | | | | |
|-----|--------------------------|---|----------------------------|
| i. | New Construction Works | - | Rs. 420 /- per labour hour |
| ii. | Service Connection works | - | Rs. 413 /- per labour hour |

(b). Overhead Recovery Rate

- | | | | |
|-----|--------------------------|---|----------------------------|
| i. | New Construction Works | - | Rs. 241 /- per labour hour |
| ii. | Service Connection Works | - | Rs. 432 /- per labour hour |

3. LABOUR & OVERHEAD RECOVERY RATES FOR OTHER CEB WORKS

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

- | | | | |
|-----|------------------------|---|----------------------------|
| i. | Labour Recovery Rate | - | Rs. 579 /- per labour hour |
| ii. | Overhead Recovery Rate | - | Rs. 432 /- per labour hour |

4. STANDARD CONSTRUCTION COSTS

All Standard Construction Costs for the year 2022 are included in section A and B of the attached Standard Construction Costs – 2022.

- Rates include the cost of providing the requested supply up to the metering point of the customer, inclusive of metering equipment. Load wire must be brought to the metering point and all required facilities to receive the supply must be provided by the customer.
- These rates are based on standard costing principal and not necessarily match the actual costs. The cost difference between the actual cost and the commercial estimate to be borne by CEB. If any other fund source is not available, the cost difference shall be met by Provincial SYA funds.
- Costs/Levies imposed by any other organization are not included.

5. OTHER CHARGES

Other Charges for miscellaneous services for the year 2022 are included in section C of the attached Standard Construction Costs – 2022.



6. DIVERSITY FACTORS FOR OVERHEAD NETWORK

For calculating the group demand in Overhead Network, Circular No. 2021/GM/16/DCC (2021/DCC/COM-07) should be referred.



Eng. G.A.D.R.P. Seneviratne
Additional General Manager,
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Chairman, Distribution Coordination Committee



Eng. (Dr) D.C.R. Abeysekara
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STANDARD CONSTRUCTION COSTS
2022

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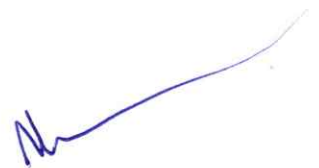
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SECTION A - STANDARD CONSTRUCTION COSTS FOR OVERHEAD CONNECTIONS

A1 Overhead Service Connections up to 42kVA

A1.1 Connections from Overhead Network (All tariff categories excluding service connections to Loads creating disturbances)

A1.1.1 Single-Phase Service Connections from Overhead Network

Cost of service connection beyond 50m inside the premises shall be borne by the customer at rate given in Table A1.1:1. However, in the instances where the distance inside the premises exceeds 110m, supply can be given by a service wire up to a length where voltage drop doesn't exceed 6%, at the discretion of CEB.

Service Type	Fixed Cost (Rs.) (Cost of service connection up to 50m)	Cost of Extra length (>50m) per meter inside customer premises (Rs. / m)	
		Length up to 110m	Length >110m (Applied on the length beyond 110m)
1P 30A	27,000.00	1,160.00	2,004.00

Table A1.1:1 Rates for Commercial Estimation – Single-phase Customers (Overhead)

CEB shall bear the cost of development of the network up to the boundary of the land of customer.

However, if the distance from transformer to the tapping point of the LV line exceeds 1,800 meters, such scenarios shall be referred to the provincial Deputy General Manager through system planning engineer for approval. If there's a requirement to install a new transformer to provide the service connection, it should be submitted to the approval of the respective Additional General Manager along with the recommendation of the Deputy General Manager.

A1.1.2 Three-Phase Service Connections from Overhead Network

Service Type	Fixed Cost (Rs.) (Cost of service connection up to 50m)	Variable Cost per meter (Rs. / m) (Applicable for distance beyond 50m off the existing LV network*)
3P 30A	43,500.00	2,534.00
3P 60A	49,000.00	

Table A1.1:2 Rates for Commercial Estimation – Three phase Customers (Overhead)

*Starting point of the length measurement is the three-phase available point of the existing LV network.

Any other augmentation work required in the existing network has to be borne by CEB.

However, if there's a requirement to install a new transformer to provide the service connection, it should be submitted to the approval of the respective Additional General Manager along with the recommendation of the Deputy General Manager.

Common Notes for Overhead Service Connections clause A1.1.1 and A1.1.2

Length measurement will be taken from the tapping pole to the service connection point. Service wire for the down-run is included in the fixed cost.

A1.2 Connections as Loop Services from Existing Overhead Service

Service Type	Loop Services		
Service Connection Capacity	1P 30A	3P 30A	3P 60A
Fixed Cost (Rs.)	9,500.00	23,500.00	25,000.00
Covered length of the Service Connection within the Fixed Cost (m)	2		
Cost of Extra length (l in meters)	l>2		
(Rs. /m)	170.00	620.00	1,360.00

Table A1.2:1 Rates for Commercial Estimation - Loop Services

Loop connections shall only be provided for the premises which are in a same building/structure.

A1.3 Service Connection to Loads creating disturbances from existing (Low Voltage) Overhead Network (up to 42 kVA)

The provision of service connections to installations having equipment such as Welding Plants, Metal Crushers, Sawmills, Interlock Brick Making Machines, etc., which can cause adverse effects to the other customers.

The feeder or service wire which include these services should start from the transformer with suitable protection.

A1.3.1 When the service can be provided through a service wire,

When the connection can be provided using a service wire (should be XLPE insulated service wire), the variable cost for the line length beyond 50m shall be charged as per the table under clause A1.1 and the fixed cost shall be charged as per the table A1.3.1.

A1.3.2 When larger feeder loads/lengths are involved

When larger feeder loads/lengths are involved or many similar service connections are expected for the same feeder, the fixed cost for such service connections are given in the table below:

Size of the service connection	60A, 3 ph.	30A, 3 ph.	30A, 1 ph.
No. of service connections (allowable)	2	4	4
Conductor	3-Ph ABC	3-Ph ABC	1-Ph ABC
Fixed cost per service connection to be charged from the customer (Rs.)	73,000.00	67,500.00	51,000.00

Table A1.3:1 Rates for Commercial Estimation for Loads creating disturbances.

Notes:

1.3.2.(a) Considering the nature of the area and future growth, three phase or single-phase bundle conductor line as required has to be constructed.

1.3.2.(b) Cost of fuse protection at transformer end and the cost of relevant service connection up to 50m has been included in the fixed cost in the table given above.

- 1.3.2.(c) 50% of the LV line cost for the LV feeder beyond 50m from the metering point to transformer should be charged from the consumer at standard construction rates.
- 1.3.2.(d) Depending on the available network whether to construct a new LV feeder with poles or second circuit on existing poles should be decided.
- 1.3.2.(e) When the subsequent customers under same category request services from already drawn feeder, this costing methodology without any change should be applied from the substation downwards.
- 1.3.2.(f) If a normal service connection is requested from this type of feeder due to unavoidable circumstances, that may be accommodated as per clause A1.1, exonerating CEB from any repercussions due to power quality in writing from the prospective customer.

A1.4 Augmentation of Overhead Connections

Existing Service	Fixed Cost (Rs.)		Applicable variable rate for distances beyond 50m offline (Rs. / m)
	30 A 3 Phase	60 A 3 Phase	
30 A, 1 Phase	41,000.00	45,500.00	2,534.00
30 A, 3 Phase	-	38,500.00	

Table A1.4:1 Rates for Commercial Estimation - Conversions Overhead Network

Notes:

- 1.4.(a) Above cost is calculated considering the cost involved in dismantling as well.
- 1.4.(b) However, when measuring for an augmented supply the closest three phase end point of the network shall be taken as the starting point before the system augmentation.
- 1.4.(c) For Loads creating disturbances, 50% of the LV line cost for the LV feeder beyond 50m from the transformer should be charged from the consumer at rate given in Table A1.4:1.

A1.5 Augmentation of Loop Service Connections

Estimates for conversion of existing loop service connections shall be prepared on case by case subject to Clause A2.

Common Notes for Service Connections:

After the commercial estimation, the distribution network on public roads/areas shall be constructed as per CEB Distribution network norms, where the cost difference between commercial estimate and actual estimate shall be borne by CEB, which shall be governed by the available approval limits.

A2 Multiple Service Connections where Metering is at one location

- 2.(a) This does not apply to overhead service connection to welding plants, metal crushers, sawmills etc. which falls under clause A1.3.
- 2.(b) These connections shall be provided by installing single point of feeding for the entire premises considering the aggregated demand (i.e., bus bar chambers, circuit breakers, relevant cables etc.)
- 2.(c) Generally, the owner or the applicant of the establishment pays the connection charges.
- 2.(d) In extraordinary circumstances CEB may meet the capacity & installation costs to facilitate multiple service connections in special cases or as augmentation works. The decision on such costs which is from CEB should be granted from the relevant approving authority.
- 2.(e) In case of above clause 2.(d), prospective customers shall be charged as per the applicable rate in clause A1.1.

A2.1 Total Calculated demand up to 42kVA

If the total calculated demand with all the diversity factors applied is not greater than 42kVA:

Generally, the owner or the applicant of the establishment should pay the charges for the main connection for a single development scenario, decided by clause A1.1.2 60A 3 Phase Connection and in addition, cost of the busbar chamber shall be charged separately. Additional connections given from the main connection shall be considered as loop services and the relevant rate shall be applied.

A2.2 Multiple service connections above 42kVA

If the total calculated demand with all the diversity factors applied is more than 42kVA:

- 2.2.(a) If the owner or the applicant of the establishment pays the installation & capacity cost as per clauses A4.1, A5.1 and A6, the secondary connections shall be costed as loop services and the relevant rate shall be applied. For any secondary connection which is larger than loop service extended from the main (aggregated) connection, actual cost for such secondary connection to be charged as per work estimate.
- 2.2.(b) If the main connection is given as per clause 2.(d), all successive customers have to be costed as per charges in clauses A1.1, A4.1, A5.1 and A6.


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A3 Real Estate Development/Auction Lands

- 3.1 The electricity distribution system for this purpose should be designed for the whole land/area to cater the long-term power requirement (assume each block of land contains a house/building) and enabling all the potential customers to get a service connection without additional poles or augmenting the already installed network.
- 3.2 For estimating the Total Electricity Demand, planning circular (2021/GM/16/DCC (2021/DCC/COM-07)) for Multiple Connections in a Single Development Scenario shall be followed by the Commercial Engineer. While generally complying with the provided factors, Provincial DGMs may use actual peak demands for extending an existing network if field tested data for a particular network is well below the given figures in exceptional situations.
- 3.3 Once the Total Electricity Demand is computed which is used for estimation purposes, capacity of the substation, its location and the associated LV network design should be decided by Planning Engineer considering the overall network.
- 3.4 The commercial estimate should include.
 - 3.4.(a) Cost of the internal LV/MV distribution lines based on Standard Construction Rates calculated for Real Estate Development/Auction Lands which are given in clause A7.1.2. Any other combination not given in this clause to be costed at actuals.
 - 3.4.(b) Based on calculated kVA requirement, capacity costs should be levied as per clause 4 and 5. If the total electricity demand is below 70kVA, then the proportional capacity cost of 70kVA connection cost as mentioned in clause A4.1 shall be levied.
 - 3.4.(c) If the total electricity demand is less than 100kVA external LV/MV lines shall be charged as per clause A4.1. If the total electricity demand is from 100kVA to 1000kVA external LV/MV lines shall be charged as per clause A5.1.
 - 3.4.(d) If the immediate power requirement (Total Electricity Demand) of the considered development could be met from the existing distribution system, then physical changes can be postponed but the cost should be levied.
 - 3.4.(e) The cost difference between commercial estimate and actual estimate shall be borne by CEB funds.
 - 3.4.(f) The individual connections to the houses shall be separately obtained according to clause A1.1.
 - 3.4.(g) In scenarios, where real estate developer has not fully paid the above charges and abandoned the land, such cases shall be addressed case by case with the approval of Additional General Manager.

A4 Bulk Supply Connections above 42kVA up to 99kVA

A4.1 New Bulk Supply Connections from 70kVA up to 99kVA

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

Capacity cost of providing a bulk supply connection shall be calculated based on a variable cost and a fixed cost.

$$\text{Capacity cost} = m_1 \times \text{Required kVA} + c_1$$

For Overhead B/S Connections of 70kVA up to 99kVA, 'm₁' and 'c₁' values under Table A4.1:1 applies.

	Variable Cost "m ₁ " (Rs. /kVA)	Fixed Cost "c ₁ " (Rs.)
70kVA-99kVA	35,610.00	(-) 1,571,740.00

Table A4.1:1 Rates for new 70kVA-99kVA Bulk Supply Connections Overhead Network

In case of multiple connections please refer Clause A2.

Notes on Bulk Supply Connections of 70kVA up to 99kVA

- 4.1.1 This cost includes the cost of providing the requested supply to the customer premises up to 50m distance from the existing LV line (inclusive of metering equipment, LV fuse, tail wire and MCCB). If customer premises is beyond 50m of the existing line, cost of LV line beyond 50m to be charged at standard rates.
- 4.1.2 However, the total low voltage line lengths shall be less than 200m for 70 kVA connections and 100m for 95 kVA connections from the substation. If the customer premise is beyond the specified length here, a new substation along with a medium voltage line should be constructed.
 - a) The cost of substation shall be borne by CEB.
 - b) Customer shall bear 50% of the cost of new MV line from existing MV network up to the premises at the standard variable cost for MV lines mentioned in this circular.
 - c) The full cost of MV line inside the boundary of the premises (if applicable) shall be paid by the customer.
- 4.1.3 The request for MV Insulated or partially insulated lines within the premises shall be accepted at actual costs.
- 4.1.4 Please note that MV Aerial Bundled Conductors should not be used in CEB network without the prior approval of the respective Additional General Manager.
- 4.1.5 Difference of the cost between the standard construction rate of the MV Insulated or partially insulated line and the calculated bare conductor MV line constructed under the same conditions, has to be charged from the customer in addition to the commercial estimate in case when customer requires approach road to be done with MV Insulated or partially insulated line.

$$\text{Cost} = \left[\begin{array}{c} \text{Standard construction cost} \\ \text{for MV insulated or partially} \\ \text{insulated line} \end{array} \right] - \left[\begin{array}{c} 50\% \text{ of the standard} \\ \text{construction cost for} \\ \text{bare conductor} \end{array} \right] + \left[\begin{array}{c} \text{Cost as per} \\ \text{commercial estimate} \\ \text{(table A4.1: 1)} \end{array} \right]$$

A4.2 Commercial Estimation Principle for Augmentations of Bulk Supplies from existing 63- 99 kVA category in Overhead Networks

Augmentations up to 1MVA shall be charged based on following principle.

$$\text{Cost} = \left[\begin{array}{c} \text{Cost of} \\ \text{obtaining the requested} \\ \text{capacity} \end{array} \right] - [344,000.00] + \left[\begin{array}{c} \text{Cost of} \\ \text{removing the existing} \\ \text{items (if applicable)} \end{array} \right]$$

In addition to above the costs of augmentation/new MV and LV lines within the premises shall be charged as required by the new connection at standard rates. If the existing lines can be utilized as it is, this does not arise.

A5 Bulk Supply Connections from 100kVA to 1 MVA

A5.1 New Bulk Supplies from 100kVA to 1 MVA

Metering of the bulk supplies from 100kVA to 1MVA are to be done at Low Voltage Level.

Capacity cost of providing a bulk supply connection shall be calculated based on a variable cost and a fixed cost.

$$\text{Capacity cost} = m_2 \times \text{Required kVA} + c_2$$

For bulk supply connections, 'm₂' and 'c₂' values under (i) or (ii) in Table A5.1:1 applies.

In case of multiple connections please refer Clause A2.

Connection Type & Voltage	Category by Capacity		Variable Cost/kVA "m ₂ " (Rs. /kVA)	Fixed Cost "c ₂ " (Rs.)
11kV	(i)	100kVA - 1MVA	5,010.00	1,016,088.00
33kV	(ii)	100kVA - 1MVA	4,920.00	1,166,013.00

Table A5.1:1 Rates for 100kVA-1MVA New Bulk Supply Connections Overhead Network

Note:

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

5.1.1.(a) Current Transformers.

5.1.1.(b) MCCBs & Bus Bar Chamber.

5.1.1.(c) Crimp type Sockets (at the Transformer LV Terminals and MCCBs)

- 5.1.1.(d) PVC insulated Cu Cables (This cost is valid up to 10m from Transformer LV Terminals to the MCCB. Any cable length that exceeds 10m will be charged from the customer.)
- 5.1.1.(e) Bulk Supply Meter Box.
- 5.1.1.(f) 4 Nos. of Concrete Earthing System with 50 mm² Cables (30m) with compression lugs, Earth rods and exothermic materials.
- 5.1.1.(g) Cost of constructing the Tap-Off from the existing MV including DDLO, SA, etc.
- 5.1.1.(h) RC/PS Poles required for the substation
- 5.1.2 For buildings which are electrically and physically separated from each other but within a single land where one building is already provided with a bulk supply, separate additional bulk supplies each less than 1MVA can be given such that the total sum of bulk supplies (including the existing bulk supply) per land is limited to 2MVA. However, this should be approved by the Addl.GM on the recommendation of relevant Provincial DGM.
- 5.1.3 Customer shall provide the transformer plinth or/and meter cubicle for housing bulk supply meter box and MCCB as required.
- 5.1.4 If a new MV line has to be constructed for bulk supply connection, 50% of the MV line construction cost up to the customer boundary shall be charged by the consumer and the balance will be borne by CEB under system augmentation funds. If any MV line length has to be constructed within the customer premises, the total cost of that line length shall be charged from the customer.
- 5.1.5 The request for MV Insulated or partially insulated lines within the premises shall be accepted at actual construction cost.
- 5.1.6 Please note that MV Aerial Bundled Conductors should not be used in CEB network without the prior approval of the respective Additional General Manager.
- 5.1.7 Difference of the cost between the standard construction rate of the MV Insulated or partially insulated line and the calculated bare conductor MV line constructed under the same conditions, has to be charged from the customer in addition to the commercial estimate in case when customer requires approach road to be done with MV Insulated or partially insulated line.

$$\text{Cost} = \left[\begin{array}{c} \text{Standard construction cost} \\ \text{for MV insulated or partially} \\ \text{insulated line} \end{array} \right] - \left[\begin{array}{c} 50\% \text{ of the standard} \\ \text{construction cost for} \\ \text{bare conductor} \end{array} \right] + \left[\begin{array}{c} \text{Cost as per} \\ \text{commercial estimate} \\ \text{(table A5.1: 1)} \end{array} \right]$$

A5.2 Commercial Estimation Principle for Augmentations of Bulk Supplies from existing 100-1000 kVA category

Augmentations up to 1MVA shall be charged based on following principle:

$$\text{Cost} = \left[\begin{array}{c} \text{Cost of} \\ \text{obtaining the} \\ \text{requested capacity} \end{array} \right] - \left[\begin{array}{c} \text{Cost of} \\ \text{obtaining the} \\ \text{existing capacity} \end{array} \right] + d$$

Value of 'd' in the above equation shall be used as mentioned in table A5.2:1.

	Transformer replacement required (Rs.)	Transformer replacement not required (Rs.)
d	355,000.00	15,000.00

Table A5.2:1 Value of 'd' for Augmentations

Augmentations from 100-1000kVA category to above 1MVA shall be charged based on following principle:

$$\text{Cost} = \left[\begin{array}{c} \text{Cost of} \\ \text{obtaining the} \\ \text{requested capacity} \end{array} \right] - \left[\begin{array}{c} 50\% \text{ of the} \\ \text{standard transformer} \\ \text{cost} \end{array} \right]$$

If the above calculated cost becomes negative, it will not be refunded.

Common Note:

In addition to above the costs of augmentation/new MV and LV lines within the premises shall be charged as required by the new connection at standard rates. If the existing lines can be utilized as it is this does not arise.

A6 Bulk Supply Connections above 1MVA

Metering of the bulk supplies above 1MVA are to be done at High Voltage Level.

Estimates for bulk supply connections above 1MVA shall be prepared on cost recoverable, case by case basis considering the capacity of the supply requested, the distance from the network (from technically feasible point of the network) and cost of installation of necessary equipment in providing the connection.

Common Notes for clause A5 and A6 of Overhead Bulk Supply Connections:

1. Unless otherwise specified, the customer should provide the substation room/buildings and space/land with access as directed by the planning engineer. The requirement should be agreed at the building planning stage of the intended construction.
2. This methodology is applicable for a single bulk supply which is generally provided as single supply to one premises. Integrated condominium type developments may provide many connections, however from a single point of connection.
3. When a bulk supply service is requested by a customer, the request must be investigated by the Provincial Commercial unit and shall submit the requirement to the Provincial Planning &

Development unit for recommendations. For Bulk Supplies of more than 1MVA, this procedure will elevate to Divisional Level.

- a. The Planning & Development unit shall assess the commercial requirement and provide the technical proposal up to the metering point, based on the following.
 - i. Shall check if any new developments are required to fulfill technical requirements.
 - ii. For bulk supplies up to 1MVA, shall investigate whether the excess capacity of the transformer can be utilized to draw additional feeders from the transformer to extend the existing distribution network or whether a higher capacity transformer is suitable to achieve the above.
 - b. The Commercial unit shall issue an estimate according to the customer requirement upon the provision of technical proposal.
 - c. Based on the Commercial estimate and technical proposal, detailed estimates have to be prepared covering the full development required for the job. The total job shall have combined funding.
 - d. This combined funding shall be from customer paid amount as per the commercial estimate and system augmentation funds which is the difference between total cost of the detailed estimates less the commercial estimate.
4. When the excess transformer capacity is utilized in order to extend the LV distribution network, special attention must be given when placing the transformer, to minimize the possibility of shifting in the future. However, this should not prevent a customer from obtaining the requested service.
 5. If a customer requests for a dedicated Bulk Supply (no other tapping), then the cost of providing that bulk supply should be fully charged from the customer.

A7 LV New Lines / Conversions / Combined Runs

A7.1 Aerial Bundled Conductor (ABC) LV line cost per km

A7.1.1 Overhead Lines except for Internal Lines of Real Estate Development/Auction Lands

Conductor	3x95+70mm ²	3x70+54.6mm ²	3x95+70+16mm ²	3x70+54.6+16mm ²	50+54.6mm ²
Cost (Rs. /km)	2,700,000.00	2,534,000.00	2,960,000.00	2,634,000.00	2,004,000.00
Second Circuit cost (Rs. /km)	1,640,000.00	1,277,000.00	1,647,000.00	1,285,000.00	649,000.00

Table A7.1.1 Rates for ABC lines except for Internal Lines of Real Estate Development/Auction Lands

A7.1.2 Internal Lines for Real Estate Development/Auction Lands

Conductor	3x70+54.6+16mm ²
Cost (Rs. /km)	2,985,000.00

Table A7.1.2 Rate for Internal ABC LV line for Real Estate Development/Auction Lands

A7.2 Combined run of LV Line on existing MV Line

Conductor	ABC 70x3+54.6mm ² 3 Ph.	ABC 95x3+70mm ² 3 Ph.
Combined Run on 11kV/33kV line cost (Rs. /km)	1,535,000.00	1,863,000.00

Table A7.2.1 Rates for Combined Runs

A7.3 Combined run of LV Line on MV Line When Both are Simultaneously Constructed

MV Line	LV Conductor (Single Circuit)			
	3x95+70mm ²	3x70+54.6mm ²	95x3+70+16mm ²	3x70+54.6+16mm ²
Raccoon 11kV Single Circuit line Cost (Rs. /km)	6,858,000.00	6,494,000.00	6,864,000.00	6,502,000.00
Raccoon 33kV Single Circuit line Cost (Rs. /km)	7,547,000.00	7,183,000.00	7,553,000.00	7,191,000.00

Table A7.3.1 New Combined Runs

Note 1

Span of Combined circuit lines are reduced to the span required for LV. Therefore, no additional LV poles are introduced.

Common Note

A concession of Rs. 75,000.00 is provided for estimates prepared under A7.1.1, A7.2, & A7.3 if funding is done through Decentralized Budget, Provincial Council Budget, and similar Rural Electrification schemes.

A8 MV New Lines

(These rates are applicable only for Pole Line Constructions)

A8.1 Bare Conductors MV Line Cost per km.

Following rates are calculated for constructing 1km MV line with 27 poles and 3 struts. 10.0 m (RC or PS) poles to be used in MV construction as far as possible. However, 13% of 11.0 m PS poles are estimated for special construction where clearances cannot be maintained by 10.0 m poles. (E.g., Road crossings, Urban areas)

A8.1.1 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. /km)	3,827,000.00	-	-
Single Circuit on 11m Pole Cost (Rs. /km)	4,484,000.00	6,613,000.00	5,741,000.00
Single Circuit on 13m Pole Cost (Rs. /km)	5,769,000.00	7,907,000.00	7,050,000.00
Double Circuit on 13m Pole Cost (Rs. /km)	-	12,774,000.00	11,177,000.00

Table A8.1.1 Rates for 11kV Bare Overhead Lines

A8.1.2 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. /km)	4,250,000.00	-	-
Single Circuit on 11m Pole Cost (Rs. /km)	4,913,000.00	7,041,000.00	6,200,000.00
Single Circuit on 13m Pole Cost (Rs. /km)	6,220,000.00	8,348,000.00	7,485,000.00
Double Circuit on 13m Pole Cost (Rs. /km)	-	13,889,000.00	12,241,000.00

Table A8.1.2 Rates for 33kV Bare Overhead Lines

A8.2 Aerial Bundled Conductors (ABC) MV Line Cost per km.

Since 35 m span is used in MV ABC construction, 11.0 m PS poles to be used in MV construction as far as possible. However, 13% of 13.0 m PS poles are estimated for special construction where clearances cannot be maintained by 11.0 m poles. (E.g., Road crossings, Urban areas)

A8.2.1 11 kV Network

Line	95mm ² ABC	150mm ² ABC
Single Circuit on 11 m Pole Cost (Rs. /km)	9,873,000.00	12,673,000.00
Single Circuit on 13 m Pole Cost (Rs. /km)	11,028,000.00	13,558,000.00
Double Circuit on 11m Pole Cost (Rs. /km)	16,192,000.00	22,231,000.00
Double Circuit on 13m Pole Cost (Rs. /km)	17,347,000.00	23,116,000.00

Table A8.2:1 Rates for 11kV ABC Lines

A8.2.2 33 kV Network

Line	95mm ² ABC	150mm ² ABC
Single Circuit on 11 m Pole Cost (Rs. /km)	13,436,000.00	15,372,000.00
Single Circuit on 13 m Pole Cost (Rs. /km)	14,305,000.00	16,374,000.00
Double Circuit on 11 m Pole Cost (Rs. /km)	23,157,000.00	27,267,000.00
Double Circuit on 13 m Pole Cost (Rs. /km)	24,026,000.00	28,269,000.00

Table A8.2:2 Rates for 33kV ABC Lines

A9 Cost of Installation of MV Metering Equipment

11 kV cost (Rs.)	1,773,000.00
33 kV cost (Rs.)	1,867,000.00

Table A9:1 Rates for MV Metering Equipment

A10 Cost of Installation of Guard

Cradle Guard (20m span with 3m width)

11 kV cost (Rs.)	190,000.00
33 kV cost (Rs.)	278,000.00

Table A10:1 Rates for Cradle Guard

Note 1

Poles are not included for this cost.

SECTION B - STANDARD CONSTRUCTION COSTS FOR UNDERGROUND CONNECTIONS

B1 New Service Connections up to 42kVA

B1.1 Ordinary Connections from UG Network

Service Type	Fixed Cost (Rs.) (Cost of service connection up to 5m)	Cost of Extra length (>5m) per meter (Rs. /m)
1P 15A	77,000.00	6,450.00
1P 30A		
3P 30A	101,000.00	7,100.00
3P 60A	111,250.00	7,800.00

Table B1.1:1 Rates for Commercial Estimation – UG

- Fixed Cost for Three Phase 30A & 60A connections are calculated:
 - assuming the connection is given either from Mini Feeder Pillar or the distributor.
 - 1/5th of mini feeder pillar cost is included for 30A 3 Phase & 1/4th of Mini feeder pillar cost is included for 60A 3Phase connections.
- Variable cost for three phase 30A is calculated including the cost of 35mm² XLPE, Al cable. Variable cost for three phase 60A is calculated including the cost 70 mm² XLPE, Al cable.
- The above fixed cost includes the cost of cable up to 5m. Variable cost will only be charged for length of cable beyond 5m distance.
- 5m cable length is the length excluding up risers measured along feeding path. Additionally, all uprising components such as meter rise & cable length in mini feeder pillar (another 5m) is included in the estimate in the fixed charge. Any additional horizontal feeding distances shall be charged.
- All the cable laying work for providing service connections is assumed to be done by contractors.
- After the commercial estimation, the distribution network on public roads/areas shall be constructed as per CEB Distribution network norms, where the cost difference between commercial estimate and actual estimate shall be borne by CEB, which shall be governed by the available approval limits.
- All road reinstatement charges related to this development shall be paid by the customer.

B1.2 Connections as Loop Services from Existing UG Service

Service Type	Loop Services				
Service Connection Capacity	1P 15A	1P 30A	3P 15A	3P 30A	3P 60A
Fixed Cost (Rs.)	9,500.00		23,500.00		25,000.00
Covered length of the Service Connection within the Fixed Cost (m)	2				
Cost of Extra length (Rs. / m)	l>2				
	170.00		620.00		1,360.00

Table B1.2:1 Rates for Commercial Estimation - Loop Services

Loop connections shall only be provided for the premises which are in a same building/structure.

B1.3 Augmentation of UG Connections

Estimates for conversion of existing UG connections shall be prepared on case-by-case basis.

B1.4 Augmentation of Loop Service Connections

Estimates for conversion of existing loop service connections shall be prepared on case by case subject to Clause B2.

B2 Multiple Service Connections where Metering is at one location for UG Systems

- 2.(a) These connections shall be provided by installing single point of feeding for the entire premises considering the aggregated demand (i.e., bus bar chambers, circuit breakers, relevant cables etc.)
- 2.(b) The total demand shall be calculated by applying the diversity factors specified in planning guidelines.
- 2.(c) Generally, the owner or the applicant of the establishment pays the connection charges.
- 2.(d) In extraordinary circumstances CEB may meet the capacity & installation costs to facilitate multiple service connections in special cases or as augmentation works. The decision on such costs which is from CEB should be granted from the relevant approving authority.

B2.1 Total Calculated demand is less than 42kVA

If the total calculated demand with all the diversity factors applied is less than 42kVA:

2.1.(a) Generally, the owner or the applicant of the establishment pays the connection charges, decided by clause B1.1. In the case of installation of minibar chamber for an ordinary capacity of 42 kVA, the cost of minibar chamber shall be charged separately. The additional connections given from the main connection shall be considered as loop services and the relevant rate shall be applied.

2.1.(b) In case of above clause 2.(d), prospective customers shall be charged as per the applicable rate in clause B1.1.

B2.2 Multiple service connections above 42kVA

If the total calculated demand with all the diversity factors applied is more than 42kVA:

2.2.(a) If the owner or the applicant of the establishment pays the installation & capacity cost as per clauses B3 and B4, the secondary connections shall be costed as loop services and the relevant rate shall be applied. For any secondary connection which is larger than loop service extended from the main (aggregated) connection, actual cost for such secondary connection to be charged as per work estimate.

2.2.(b) If the main connection is given as per clause 2.(d), all successive customers have to be costed as per charges in clauses B1.1, B3 and B4.

B3 Bulk Connections above 42kVA

B3.1 Bulk Connections of 70kVA & 112kVA from UG LV Network

Category of Costing		70kVA	112kVA
a	Cost of providing single bulk supply It includes the total installation cost up to bulk supply meter point from UG LV network.	2,389,000.00	2,984,000.00
b	Cost of providing multiple connections through a bulk capacity It includes the total installation cost up to main bus bar chamber from UG LV network. The additional cost incurred for the installation of arrangements (except the bulk meter) beyond the main bus bar chamber has to be charged from the customer at the actual cost.	2,404,000.00	3,010,000.00

Table B3.1 :1 Rates for new 70kVA & 112kVA Bulk Connections from UG Network

Notes:

3.1.1 These supplies shall either be provided from the feeder pillars or directly from substations according to the network standards.

3.1.2 When providing multiple connections, the procedure, and guidelines of clause B2 shall be followed.

3.1.3 For the capacities between 42 kVA – 70 kVA, the cost of 70 kVA (which ever the applicable) shall be charged.

B3.2 Commercial Estimation Principle for Augmentations of Bulk Supplies between 70kVA – 112kVA in UG Networks

Augmentations shall be charged based on following principle.

$$\text{Cost} = \text{Cost of obtaining the new capacity} - \text{Cost of obtaining existing capacity}$$

Notes:

3.2.1 The above equation depicts only the commercial estimation principle that is used to charge from the customer. The cost of existing capacity shall be considered according to the clause B3.1.

3.2.2 If the existing cable is inadequate to cater the new demand, the cost of installing the new cable has to be borne by the customer.

3.2.3 When the non-typical capacities (i.e., 35 kVA, 105 kVA etc.) present, the cost of installation of the existing capacity shall be calculated by flow-rating the upper limit value of the capacity described (which ever the applicable) in cost in clause B3.1.

3.2.4 When providing multiple connections, the above cost includes the total installation cost up to main bus bar chamber from UG LV network. The additional cost incurred for the installation of arrangements beyond the main bus bar chamber has to be charged from the customer at the actual cost.

B4 Bulk Supplies/Capacities above 113 kVA up to 1MVA for 11kV

Metering of these bulk connections/capacities shall be done at low voltage level. Customer needs to provide the substation room and a meter room (if applicable) for this category.

The cost shall be calculated based on the following principle.

$$\text{Cost} = (m \times \text{CAP}) + c$$

Where,

CAP	:	Requested capacity in kVA
m	:	10,727.00 in Rs. / kVA
c	:	2,113,675.00 in Rs.

Notes:

4.1. The above cost includes the cost of installation up to main bus bar chamber. The additional cost incurs for the installation of arrangements of providing bulk and or multiple connections has to be charged from the customer at actual costs.

4.2. When providing multiple connections, the procedure, and guidelines of clause B2 shall be followed.

B5 Bulk Supply Connections above 1MVA up to 16MVA for 11kV

Metering of the bulk connections above 1MVA to 16MVA are to be done at medium voltage level. Customer needs to provide the substation room (suitable for installing MV switchgear panels) for this category.

This cost includes the installation cost of ring cables from the 11kV underground cable network to the substation including two ring panels, bus section panels, earthing system and the radial cable and panel.

$$Cost = CAP \times [(L_{Radial} \times M_{Radial}) + C_{Radial}] + [(L_{Ring} \times M_{Ring}) + C_{Ring}]$$

Where,

CAP : Requested capacity in MVA
 L_{Radial} : Radial Cable Length in meters
 L_{Ring} : Ring Cable Length in meters

Radial Cable Cost Calculation Parameters		
Radial Cable	M_{Radial} per (m) per (MVA)	C_{Radial} per (MVA)
400 sqmm 1C XLPE	7,626	3,501,959
240 sqmm 3C XLPE	7,632	3,786,761
Ring Cable Cost Calculation Parameters		
Ring Cable	M_{Ring} per (m)	C_{Ring}
240 sqmm 3C XLPE	31,258	14,666,355

Table B5.1 Rates for Bulk Supply Connections above 1MVA

In addition to the cost calculated as above, the cost of installing metering equipment (including panel/panels etc.) shall be charged separately according to the number of connections proposed.

The above equation is meant for a new radial cable installation. As per the technical proposal, when there is no radial cable to be laid, the costing shall be done using the length and C_{Radial} of the nearest existing radial cable. If the nearest radial cable cannot be identified, the average length of two adjacent radial cables in the network and the relevant C_{Radial} shall be considered. In the presence of two different sized adjacent radial cables, the cost of each cable shall be calculated using the above equation and then, the average cost shall be taken.

Ring Cable length defined in the above equation is the total length of the two new Ring cables to be laid from ring network to the customer premises. In the case of already laid ring cables to the customer premises (i.e., if the ring substation is already at the customer premises), the total length of the ring cables addition to the said premises from the ring network shall be considered for the cost calculation.

When the non-typical cables (i.e., 185 sqmm 3C PILC, 240 sqmm 1C XLPE etc.) present, the relevant parameters of the almost identical cable from the table B5:1 shall be considered for the cost calculation.

Notes for Underground Connections:

1. Unless otherwise specified, the customer should provide the substation room/buildings and space/land with access as directed by the planning engineer. The requirement should be agreed at the building planning stage of the intended construction.
2. This methodology is applicable for bulk supply/capacity through single point of feeding. Integrated condominium type developments different points of metering, however from a single point of feeding.
3. When a bulk supply/capacity is requested by a customer, the request must be investigated by the Provincial Commercial unit and shall submit the requirement to the Provincial Planning & Development unit for recommendations. For Bulk Supplies of more than 1MVA, this procedure will be evaluated under Divisional Level except Colombo City province.
 - a. The Planning & Development unit shall assess the commercial requirement and provide the technical proposal up to the metering point, based on the following.
 - i. Shall check if any new developments are required to fulfill technical requirements.
 - ii. For bulk supplies up to 1MVA, shall investigate whether the excess capacity of the transformer can be utilized to draw additional feeders from the transformer to extend the existing distribution network or whether a higher capacity transformer is suitable to achieve the above.
 - b. The Commercial unit shall issue an estimate according to the customer requirement upon the provision of technical proposal.
 - c. Based on the Commercial estimate and technical proposal, detailed estimates have to be prepared covering the full development required for the job. The total job shall have combined funding.
 - d. This combined funding shall be from customer paid amount as per the commercial estimate and system augmentation funds which is the difference between total cost of the detailed estimates less the commercial estimate.
4. When the excess transformer capacity is utilized in order to extend the LV distribution network, special attention must be given when placing the transformer, to minimize the possibility of shifting in the future. However, this should not prevent a customer from obtaining the requested service.
5. If a customer requests for a dedicated Bulk Supply (no other tapping), then the cost of providing that bulk supply should be fully charged from the customer. (1 MVA Cost)

6. All the above costs are without the road reinstatement charges. The applicants shall pay road reinstatement charges and arrange road excavation permits from the relevant authorities according to the actual length of cable laying which arises due to the particular electricity connection.
7. Supplies above 16MVA, this method can be applied. However as per the ground situation additional cost may be charged.

B6 Commercial Estimation Principle for Augmentations of Bulk Supplies between 113kVA – 16 MVA in 11kV UG Networks

B6.1 Augmentation of 70 kVA and 112 kVA to high capacities: 113 -1000 kVA

The cost shall be calculated based on the following principle.

$$Cost = m(CAP_2 - CAP_1) + c$$

Where, 'm' and 'c' are given in clause B4. CAP_2 and CAP_1 are requested and existing capacity respectively. 50% of the present values of the re-usable materials/network component shall be rebated from the estimate.

B6.2 Augmentation of bulk supplies: 113 -1000 kVA

The cost shall be calculated based on the following principle.

$$Cost = \text{Cost of obtaining the new capacity} - \text{Cost of existing capacity}$$

The cost of existing and new capacity shall be calculated according to the clause B4 in this report. 50% of the present values of the re-usable materials/network component shall be rebated from the estimate.

B6.3 Augmentation of Bulk Supplies of LV network to bulk Supplies of MV network

The cost shall be calculated as per clause B5 in this report.

50% of the present values of the re-usable materials/network components of LT network shall be rebated from estimate prepared separately for the installation of metering equipment.

B6.4 Augmentation of bulk supplies: More than 1 MVA

The cost shall be calculated based on the following principle.

$$Cost = \text{Cost of obtaining the new capacity} - \text{Cost of existing capacity}$$

The cost of existing and new capacity shall be calculated according to the clause B5 in this report. This principle is applicable even for the bulk connections lesser than or equal to 1MVA, if the current metering is being done at medium voltage level (11 kV).

SECTION C - STANDARD CONSTRUCTION COSTS FOR OTHER CHARGES

C1 Other Charges

Other charges for miscellaneous services.

No	Type of Charge	Charge (Rs.)
1.	Disconnection at the customer's request	3,000.00
2.	Reconnection at the customer's request	3,000.00
3.	Reconnection after a statutory disconnection	3,000.00
4.	Testing of an energy meter used at 230 V	4,200.00
5.	Testing of a three-phase energy meter (less than 42 kVA)	5,800.00
6.	Testing of an energy or energy/demand meter and associated equipment used at 400 V	15,350.00
7.	Testing of an energy or energy/demand meter associated equipment (used at voltages higher than 400 V)	15,350.00
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* for the cases not addressed by this circular
13.	Issuing an estimate for shifting of poles /lines/ transformer /any other electrical plant (Will be set off from the estimate if the payment is done within the price validity period)	2,500.00
14.	Shifting of poles/lines/transformer/any other electrical plant	CCE*
15.	Clearing of way leaves	CCE* based on compensation charges decided by Divisional Secretaries and cost of removing way leaves.
16.	Issuing a clearance report for buildings (Deductible from the estimate within the validity period) Up to 1MVA Above 1MVA	10,000.00 15,000.00
17.	Issuing a duplicate bill	Free of charge
18.	Grid interconnection of generation facility	CCE*

19.	<p>Delays in Payment – Bulk Supply Customers</p> <p>15 days after issuing the bill to the customer, a monthly interest rate of 0.78% 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 said interest on the outstanding amount until the day of reconnection and Reconnection processing fee.</p>	
20.	<p>Delays in Payment – Ordinary Supply Customers</p> <p>After 30 days period, if a disconnection order is issued, a monthly interest rate of 0.78% 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.</p>	
21.	<p>Repair of damages to Service connection wire</p> <p>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.</p>	CCE*
22.	<p>Net Metering/Net Accounting/Net Plus Schemes</p> <p>Application Processing Charge (Rs) -Contract Demand ≤42kVA</p> <p>Application Processing Charge (Rs) -Contract Demand >42kVA</p>	<p>6,500.00</p> <p>18,000.00</p>
	<p>Connection Charges for Net Metering/Net Accounting/Net Plus Schemes (Contract Demand ≤ 42kVA for Net Plus)</p> <p>1 Phase Connection Cost (Rs)</p> <p>3 Phase Connection Cost (Rs)</p>	<p>19,000.00</p> <p>34,000.00</p>
	<p>Connection Charges for Net Plus Schemes (42kVA < Contract Demand ≤ 1000kVA)</p>	CCE*
	<p>Connection Charges for Net Plus Schemes - Overhead Network (Contract Demand > 1MVA) (Cost of Auto-recloser and HT Metering unit included)</p> <p>In accordance with circular no. 2017/DCC/COM-11 dated 2017-05-17.</p>	<p>11kV – Rs. 4,688,000.00</p> <p>33kV – Rs. 4,996,000.00</p>
	<p>Connection Charges for Net Plus Schemes - Underground Network (Contract Demand > 1MVA)</p>	CCE*
	<p>1 Phase Testing Charge</p>	7,700.00
	<p>3 Phase Testing Charge</p>	9,700.00
	<p>Standard Rate for Ordinary Supply Customers to change over to the time-of-day tariff, one time charge for re programming the meter.</p> <p>1 Phase Connection Cost (Rs)</p> <p>3 Phase Connection Cost (Rs)</p> <p>Based on availability, the existing single rate meter shall be replaced with a Programmable 3 phase 3 wire meter or a Direct Connected Single-Phase Static meter free of charge.</p>	<p>12,300.00</p> <p>13,900.00</p>

24.	Converting TOU accounts to Ordinary Supply accounts	Free of charge
25.	Application fee for a new Bulk Supply Connection (Will be set off from the estimate if the payment is done within the price validity period)	5,000.00
26.	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) For 1 Phase (Rs.) For 3 Phase (Rs.)	 15,000.00 20,000.00
27.	Re-fixing of finalized accounts	CCE* (Excluding Meter Cost)
28.	Issuing a detailed Account Statement	Free of cost, if available in Web. Otherwise Rs. 100.00 per page.
29.	Providing Load Profile and Other Data in Smart Meters	Free of charge if such facility is supported in the meter and remote reading facility is also available.
30.	Shifting of Bulk Supply Connections	CCE*

* CCE – Case by Case Estimation by the Licensee based on Standard Construction Costs – 2022 and Catalogue & Price List of Materials 2022 issued by CEB.


Chairman
Distribution Coordination
Committee

