

KERALA STATE ELECTRICITY REGULATORY COMMISSION
THIRUVANANTHAPURAM

Present : **Shri Preman Dinaraj, Chairman**
Shri K.Vikraman Nair, Member
Shri S.Venugopal, Member

OP No. 08/2018

In the matter of: Cost data for distribution works for 'Thrissur Corporation Electricity Department for the financial year 2018-19'.

Petitioner : Thrissur Corporation Electricity Department

Order dated 12.02.2019

1. Thrissur Corporation Electricity Department (herein after referred to as the petitioner or TCED) filed a petition before the Commission on 01.06.2018, for the approval of cost data for distribution works for FY 2018-19, for the recovery of expenditure under Section 46 of the Electricity Act 2003. The Commission admitted the petition as OP No. 08/2018.
2. The Commission vide the letter dated 16.07.2018 directed the TCED to submit the following details to proceed with the petition filed by TCED.
 - (i) Purchase order in support of the cost of materials claimed by TCED.
 - (ii) The actual expense incurred by TCED in the FY 2016-17 for carrying out the works proposed in the petition filed by TCED.
3. The Commission conducted the public hearing of the petition at Government Guest House, Ramanilayam at Thrissur on 28.09.2018. The list of participants attended the public hearing is enclosed as Annexure to this order. During the hearing, Sri. J. Jose, Electrical Engineer, TCED presented the petition on behalf of the petitioner TCED. The summary of the issues raised by the TCED is given below.

- (1) TCED had adopted the basic data on labour and transportation as per the order of the Commission dated 27.04.2018 in petition No. OA No. 17 of 2017, in the matter of 'approval of the cost data of KSEB Ltd for the year 2018-19'.
- (2) The cost of materials claimed is as per the latest purchase orders/quotations received for supply of materials.
- (3) For arriving the labour cost, the cost index of 1.4699 is adopted.
- (4) The GST at the rate 18% is claimed on cost of labour and cost of transportation.

At the time of the hearing, M/s TCED presented the revised cost data by revising the cost of materials and labour on certain items and submitted a copy of the same for consideration of the Commission.

4. Sri. Francis Chellussery, Councilor, Thrissur Corporation submitted that, the petition for approval for cost data was submitted before the Commission without getting the approval from the Corporation council.
5. Sri. Radhakrishnan, former Mayor, submitted that, electricity distribution in the small area of 12.65 square kilometer out of 103 square kilometer only is served by TCED and in the balance area, electricity distribution is being done by the KSEB Ltd. The cost data claimed by TCED is much higher than that approved for KSEB Ltd for the financial year 2018-19. Hence, the electricity consumers of TCED may be forced to pay higher amount if the cost data is approved as claimed.
6. Sri. G. Manoj, Assistant Executive Engineer, representing KSEB Ltd submitted the following.
 - (i) The cost of all works specified in the petition are more than the cost approved for KSEB Ltd for the financial year 2018-19.
 - (ii) The cost index approved for KSEB Ltd is 1.43 whereas the same claimed by TCED is 1.4699. The cost index of KSEB Ltd is the average cost index of 14 districts, however for estimating the cost data of TCED, the cost index of 14 district is not required. As per the circular of PWD dated 19.09.2017, the cost index of Thrissur is 1.3725.
 - (iii) The basis of arriving the cost of materials, labour cost, transportation etc are not detailed in the petition. It is observed that, TCED has

generally followed the method approved by the Commission for KSEB Ltd.

7. Adv. Jacob Puthussery, President, Anti Corruption Peoples Movement, Kerala submitted that, the staff pattern in the TCED is much higher than that in KSEB Ltd. The proposal to construct the 110 kV substation at a cost of Rs 60.00 crore is intended only for getting promotions to the employees of TCED.
8. Sri. Ramakrishhan, Architect submitted that, the cost of distribution works as per the petition is much higher than that approved for KSEB Ltd. He further submitted that, the details of the petition is not available to the consumers.
9. Based on the deliberation during the public hearing and other documents placed before it, the Commission, vide the daily order dated 05.10.2018, issued following directions to M/s TCED for compliance.
 - (i) The cost of materials claimed by TCED is much higher than that approved for KSEB Ltd for the FY 2018-19. The cost of 8M PSC pole claimed by TCED is Rs 3968/- per pole as against Rs 2704/- approved for KSEB Ltd, for the FY 2018-19. Similarly, the cost of 100kVA transformer claimed by TCED is Rs 179125/- as against Rs 141251/- approved for KSEB Ltd for the FY 2018-19. TCED submitted that, this variation is mainly due to the smaller quantum of purchase of the items when compared to the large volume of purchase by KSEB Ltd. The Commission has also noted that, the annual requirement of the distribution poles and transformers by TCED is very few in numbers and the same can be arranged from KSEB Ltd itself at the purchase price of KSEB Ltd. The Commission directed TCED to take up the matter with the management of KSEB Ltd and to reach a consensus on this issue and report the compliance.
 - (ii) The Commission has noted that, TCED claimed GST @18% for the works executed by them with their employees. While approving the cost data for KSEB Ltd for the FY 2018-19, the Commission has approved the cost data excluding the GST. However, KSEB Ltd is authorized to collect the GST applicable, for the works and services rendered by them from the consumers and remit the same to the Government as per the orders of the Central Government and State Government from time to time. The Commission directed the TCED to revise the cost data for distribution works, excluding the GST, and the GST may be claimed separately from the consumers.
 - (iii) TCED has adopted 1.4699 as the cost index for distribution works, based on the cost index published by Kerala PWD on 31.03.2017.

TCED may revise cost data by adopting the cost index of Thrissur as per the circular of the Kerala PWD dated 19.09.2017.

- (iv) TCED may submit the copies of the purchase orders in support of the cost of materials claimed.
- (v) TCED also may submit the details of the actual cost of works executed during the FY 2016-17, with all supporting documents.

- 10.** In compliance of the direction issues by the Commission vide the daily order dated 05.10.2018, M/s TCED submitted the revised cost data on 16.11.2018, adopting the cost index of Thrissur and also excluding the GST from the cost data. However, TCED could not submit the invoices of the works carried out in the FY 2016-17 and submitted that, all the major works of TCED were carried out by the consumers themselves by supplying materials and only supervision charges were collected from them.

Regarding the direction of the Commission to look into the possibility of purchase of materials from KSEB Ltd to avoid cost escalation, M/s TCED submitted that as per the Store Purchase Manual, source of supply should be an eligible and qualified supplier. In this case, KSEB Ltd does not seem to be qualified supplier, as their area of business is that of an electricity licensee. Hence entering an agreement for supply of material with KSEB Ltd may lead to legal complication.

Analysis and Decision of the Commission

- 11.** Section 46 of the Electricity Act, 2003 empowers the distribution licensee to charge from a person requiring supply of electricity, any expenses reasonably incurred in providing any electric line or electrical plant used for the purpose of giving that supply. Regulation 33 of the Kerala Electricity Supply Code, 2014 stipulates that the licensee shall obtain from the Commission annually, approval of the schedule of rates for recovery of such expenditure. Regulation 33 is quoted hereunder:

33. Approval of Cost Data by the Commission:

- (1) *The licensee shall submit once in a year, a proposal to the Commission for approval of the cost data of the rates of materials and work at which the expenses as per Section 46 of the Act is to be recovered by the licensee.*

- (2) *The licensee shall publish such proposal in its web site and publish an extract in one Malayalam daily and one English daily having wide circulation in the State, as directed by the Commission.*
- (3) *The Commission shall, after conducting a public hearing on such proposal, scrutinize the proposal, determine the reasonable rates of material and labour and approve cost data with or without modification.*
- (4) *The cost data approved by the Commission shall be published in the web site of the licensee and it shall be valid for at least one year from the date of its issue.*

Provided that the Commission may, on the request of the licensee, enlarge the period of validity of the cost data.

12. The Commission, vide the order dated 27.4.2018 in OA No 17 of 2017, had approved the cost data for KSEB Ltd for the year 2018-19. The works carried out by the distribution licensees in the state for providing service to the consumers are of similar nature. The Commission noticed some changes in a few items in the cost data for distribution works submitted by TCED from the cost data approved for KSEB Ltd. The Commission is of the view that the cost data for different licensees within the state should be comparable.
13. The Commission noted that, in some of the items, the cost of materials claimed by TCED is much higher than that approved for KSEB Ltd. M/s TCED submitted that, being a small licensee distributing electricity in a limited area of about 12.65 square kilometer, the volume of purchase of materials by TCED is very small compared to the volume of purchase of materials by KSEB Ltd. Hence, the price preference available to KSEB Ltd for bulk purchase is not available to M/s TCED. This issue was discussed in the State Advisory Meeting held on 17.12.2018. The annual requirement of distribution poles, transformers and other such materials of small licensees including M/s TCED is much less than that required for KSEB Ltd. If such materials of small quantities are arranged from KSEB Ltd, the price advantage available to the consumers of KSEB Ltd can be made available to the consumers of the small licensees also. During the State Advisory Committee meeting, the KSEB Ltd submitted that, if the material requirements of small licensees such as distribution poles, transformers and other similar materials are informed to KSEB Ltd in advance, the same also can be arranged along with the bulk purchase of such items by KSEB Ltd. Hence, the Commission is of the view that, the small licensees including TCED may communicate the requirements distribution poles, transformers and other similar items in advance so that, KSEB Ltd can purchase such items along with their annual procurement of materials.
14. Considering the small quantum of material procurement of TCED compared to KSEB Ltd, the Commission is of the view that, the cost of material

procurement of TCED may be slightly higher than that of KSEB Ltd. Hence the Commission, while approving the cost data for TCED, decided to allow a maximum increase of 10% on cost of materials adopted for KSEB Ltd for the year 2018-19. Accordingly, the cost of materials adopted for approving the cost data of TCED for the FY 2018-19 is the 'the material cost proposed by TCED or the material cost adopted for approving the cost data of KSEB Ltd for the year 2018-19 increased by 10%, whichever is lower'.

15. Government of Kerala, vide the Order dated 17-04-2013, issued orders to adopt the CPWD data and schedule of rates for the works in State Government departments . Hence the cost data of KSEB Ltd was approved with CPWD DSR 2016, with the average cost index of 1.43 for the 14 districts of the State of Kerala, as per the circular of the Kerala PWD dated 19.09.2017. However, the area of operation of the TCED is only 12.65 square kilometer in Thrissur district, the Commission decided to adopt the cost index of 1.3725 as per the Kerala PWD circular dated 19.09.2017 instead of 1.43 adopted for KSEB Ltd. The Commission has revised the labour content of the cost of transportation also with the cost index of 1.3725 instead of 1.43 adopted for KSEB Ltd.
16. As specified in the Kerala Electricity Supply Code 2014 and as approved for KSEB Ltd, the Commission approved the centage charge @16% on the cost of materials, and 10% as overhead charges on labour and transportation in this approval for cost data of M/s TCED.
17. As approved for KSEB Ltd, the Commission decided to approve the cost data of M/s TCED without GST and direct TCED to claim GST from consumers as per the rules in force and remit the amount as per actual.
18. TCED proposed transformer installations through RMU citing the reason that they operate in the corporation area. The Commission has approved the cost of installation of transformers and RMUs separately. Whenever transformer is installed along with RMU, TCED can realize the costs of both, to execute the work.

Orders of the Commission

19. Duly considering the application filed by TCED, the objections and comments of the stake holders, and other documents and details, the Commission hereby orders that,
 - (1) TCED is authorised to recover from a person requiring supply of electricity in pursuance of Section 43 of the Act, the expenditure incurred by it for

various works in connection with providing electric line or electrical plant required for giving the supply, at the rates given in the cost data as approved as per Annexures 1 to 71, from the date of this order.

- (2) TCED also authorized to collect the GST applicable from the consumers, for the works and services rendered by them to the consumers and remit the same to the Government, as per the orders issued by the Central Government and State Government from time to time.

Sd/-
K.Vikraman Nair
Member

Sd/-
S.Venugopal
Member

Sd/-
Preman Dinaraj.
Chairman

Approved for issue

Sd/-
G Jyothichudan
Secretary

Annexure

1. Sri. K Radhakrishnan, Former Mayor , Trissur Corporation
2. Adv. Jacob Puthussery, President, Anti Corruption People's Movement, Thrissur
3. Sri. Manoj G, KSEB Ltd
4. Sri. M G Rajagopal, CGRF
5. Sri. Rajan Konikara, Deputy Manager, KSFE
6. Sri. Aji K Kareen, Manager, KSFE
7. Sri. Edwin Jose, Josco Jewellers, Thrissur
8. Sri. Smito, Chungathu Jewellery
9. Sri. K. Ramakrishnan, Architect, ENARC, Thrissur
10. Sri. C P Muhammed Haneef, Merchant Association, Thrissur
11. Sri. E. Nandakumar, EMKE Group, Thrissur
12. Sri. Francis .P.Y, AE, TCED
13. Sri Shameer.N, AE, TCED
14. Sri. M. Sugathan, Asst. Secretary, Thrissur Corporation
15. Sri. Francis Chalissery, Councilor, Thrissur Corporation
16. Smt. C. B. Geetha, Councilor, Thrissur Corporation
17. Smt. Sheena Chandran, Councilor, Thrissur Corporation
18. Sri. Jayaraj K. N
19. Sri. Shine M.V, AE, TCED
20. Sri. B. Nikhil, AE, TCED
21. Sri. Balakrishnan A.K, SE, TCED
22. Sri. S. Prasad
23. Sri. Prasad.P, AE, TCED
24. Sri. Premkumar P.N, TCED
25. Sri. Ajikumar. P, TCED
26. Smt. Julymol Joseph, SE, TCED
27. Smt. Rethi.K, SE, TCED
28. Sri. Arun Prakash, SE, TCED
29. Sri.Davis Parappukara, Telegraph
30. Maintenance Supervisor, Aswini Hospital
31. Sri. Sebastian Jose, K.U.V.E.S

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

ABSTRACT		
SI No.	Description of the work	Rate approved by the Commission in Rupees
1	LT single phase weather proof service connection upto and including 5kW (using static meter with LCD display)	1740
2	LT three phase weather proof service connection up to and including 10 KW (using static meter with LCD display and ToD facility)	4290
3	LT three phase weather proof service connection above 10kW upto and including 25kW (using static meter with LCD display and ToD facility)	13600
4	LT three phase weather proof service connection above 25kW & below 50kVA	22660
5	LT three phase weather proof service connection from 50kVA and above upto and including 100kVA	24260
6	Providing support post for weather proof service connection.	5760
7	LT single phase over head service connection upto and including 50m with max. 1 Post	9500+88 per M of OH line
8	LT single phase over head service connection above 50 m upto and including 100 m with max. 2 Posts	22940+88 per M of OH line above 50m
9	LT single phase over head service connection above 100m up to and including 150m with max. 3 Posts	35990+88 per M of OH line above 100m
10	LT single phase over head service connection above 150m up to and including 200m with max. 4 Posts	48980+88 per M of OH line above 150m
11	LT three phase over head service connection upto and including 50m with max. 1 Post	12040+177 per M of OH line
12	LT three phase over head service connection above 50m upto and including 100m with max. 2 Posts	30300+177 per M of OH line above 50m
13	LT three phase over head service connection above 100m up to and including 150m with max. 3 Posts	49030+177 per M of OH line above 100m
14	LT three phase over head service connection above 150m up to and including 200m with max. 4 Posts	67910+177 per M of OH line above 150m
15	Post insertion for LT single phase over head line (without stay)	6910
16	Post insertion for LT single phase over head line (with stay)	8420

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17	Post insertion for LT single phase over head line (with strut)	13640
18	Post insertion for LT three phase over head line (without stay)	7980
19	Post insertion for LT three phase over head line (with stay)	9490
20	Post insertion for LT three phase over head line (with strut)	14320
21	Conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with connected load upto and including 10kW	4120
22	Conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with load above 10 kW up to and including 25kW	14340
23	Conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with load above 25kW and below 50kVA	23700
24	Conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with load 50kVA and above up to and including 100kVA	25180
25	Estimate for enhancement of connected load of LT three phase weather proof service connection with a max. load of 10kW into the range of 10 kW to 25 kW	13210
26	Enhancement of connected load of LT three phase weather proof service connection with a maximum connected load of 10 kW into the range of 25 kW to 50 kVA.	23180
27	Enhancement of connected load of LT three phase service connection with a maximum connected load of 10 kW into the range of 50 kVA to 100 kVA .	25650
28	Enhancement of connected load of LT three phase service connection with load in the range of 10kW - 25 kW into the range 25 kW - 50kVA	22260
29	Enhancement of connected load of LT three Phase service connection with load in the range of 10kW - 25 kW into the range of 50 kVA -100 kVA	24060
30	Enhancement of connected load of LT three Phase service connection with load in the range of 25kW - 50 kVA into the range of 50 kVA -100 kVA	20880
31	Shifting Single Phase Energy Meters	580

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32	Shifting Three Phase EnergyMeters	770
33	Shifting Three Phase CT Meters	1350
34	HT pole insertion in HT/LT line (with stay)	15700
35	HT pole insertion in HT/LT line (with strut using 8m pole)	18170
36	Providing strut using LT pole	6750
37	Providing strut using HT pole	9440
38	Providing LT stay	1800
39	Providing HT stay	2290
40	Reconductoring 1 conductor of LT line with ACSR Rabbit	55
41	Reconductoring 1 conductor of LT line with ACSR Weasel	39.00
42	Reconductoring HT line ,with Raccoon	220
43	Reconductoring HT line ,with Rabbit	174
44	Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is available) inclusive of cost of pin,insulator etc.	84
45	Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is not available) inclusive of cost of pin, insulator etc.	100
46	Adding one conductr ACSR Weasel for 1 KM on the existing poles (where cross arm is available)	68
47	Adding one conductr ACSR Weasel for 1 KM on the existing poles (where cross arm is not available)	83
48	Conversion of LT single phase 2 wire line to LT Three phase 4 wire line (per metre)	173
49	Conversion of LT single phase 2 wire line to LT Three phase 5 wire line	226
50	Conversion of LT single phase 3 wire line to LT Three phase 5 wire line	168
51	Drawing Single Phase 2 wire line under existing HT line	137

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52	Drawing Single Phase 3 wire line under existing HT line	210
53	Drawing Three Phase 4 wire line under existing HT line	265
54	Drawing Three Phase 5 wire line under existing HT line	329
55	Construction of LT single phase, 2 wire line	353
56	Construction of LT single phase, 3 wire line	415
57	Construction of LT 3 phase, 4 wire line	481
58	Construction of LT 3 phase, 5 wire line	544
59	Construction of 1Km of 11KV line using ACSR Rabbit (with out tree cutting compensation)	612
60	Construction of 1Km of 11KV line using ACSR Racocon (with out tree cutting compensation) using 24 no of poles and 21nos of stays	655
61	Laying 1KM of HT XLPE UG Cable (3x300 mm ² single run)	1880
62	Construction of 1 Km of 11KV line using ACSR Racocon with A Pole (with out tree cutting compensation)	972
63	Installation of 1 No. 11 KV/ 433 V , 100 KVA Transformer without stay(pole mounted)	397700
64	Installation of 1 No. 11 KV/ 433 V , 160 KVA Transformer without stay (pole mounted)	519200
65	Installation of 11KV/433V 250 KVA Transformer without stay	582690
66	Installation of 11KV/433V 315 KVA Transformer without stay	761120
67	Installation of 1 No.11 KV/ 433 V , 500 KVA, Transformer	925100
68	Installation of Data Acquisition compatible Extensible type Ring Main Unit without VCB -CCC (E) (Cable -Cable -Cable)	455490
69	Installation of Data Acquisition compatible Extensible type Ring Main Unit with VCB -CTC (E) (Cable -Transformer -Cable)	519160
70	Installation of Data Acquisition compatible Extensible add-on type Ring Main Unit without VCB (Single Switch C-Extension)	371410
71	Installation of Data Acquisition compatible, Extensible, add-on type Ring Main Unit with VCB (Single Switch T-Extension)	451000

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

**LT single phase weather proof service connection upto and including 5kW
(using static meter with LCD display)**

Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	2.20	G.I.Wire 4mm (8SWG)	70.40	kg	154.88
3	30	Weather proof 1/1.8 (2x2.5sqmm)	8.17	m	245.10
4	1	32A fuse unit	78.94	No	78.94
6	1	Insulation tape	10	roll	10.00
	(a)	Cost of materials (sub-total)			509.72
	(b)	Centage charges @16%			81.56
		Expenditure on materials (Sub-total)			591.28
	(c)	Cost of labour			833.38
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			1041.38
	(f)	Overhead charges on (c) & (d) above @10%			104.14
	(g)	Total (a+b+c+d+f)			1736.80
		Expenditure to be recovered			1736.80
		Rounded to `			1740.00
		(Rupees One thousand seven hundred and forty only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

LT three phase weather proof service connection up to and including
10 KW (using Static meter with LCD display and ToD facility)

Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	1	Earthing coil	588.50	No	588.50
3	4.4	G.I.Wire 4mm(8SWG)	70.40	kg	309.76
4	60	Weather proof 1/2.8 (2x6sqmm)	16.83	m	1009.80
5	3	32 A fuse unit	78.94	No	236.82
6	1	Insulation tape	10	roll	10.00
	(a)	Cost of materials (sub-total)			2175.68
	(b)	Centage charges @16%			348.11
		Expenditure on materials (Sub-total)			2523.79
	(c)	Cost of labour			1388.97
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			1596.97
	(f)	Overhead charges on (c) & (d) above @10%			159.70
	(g)	Total (a+b+c+d+f)			4280.46
		Expenditure to be recovered			4280.46
		Rounded to `			4290.00
(Rupees Four thousand two hundred and ninety only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

**LT 3 Ph weather proof service connection above 10kW & up to and including
25kW (using static meter with LCD display and ToD facility)**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	1	Earthing coil	588.50	No	588.50
3	4.4	G.I.Wire 4mm (8SWG)	70.40	kg	309.76
4	140	LT PVC Al 50 sq.mm Cable	52.00	m	7280.00
5	3	100 A fuse unit	402.00	No	1206.00
6	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			9415.06
	(b)	Centage charges @16%			1506.41
		Expenditure on materials (Sub-total)			10921.47
	(c)	Cost of labour			2222.35
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			2430.35
	(f)	Overhead charges on (c) & (d) above @10%			243.04
	(g)	Total (a+b+c+d+f)			13594.86
		Expenditure to be recovered			13594.86
		Rounded to `			13600.00
		(Rupees Thirteen thousand and six hundred only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

**Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19**

LT three phase weather proof service connection above 25kW & below 50kVA

Sl.No	Qty	Particulars	Rate(Rs)	Unit	Amount (Rs)
1	1	Iron screws of sizes	20.80	doz	20.80
2	1	Earthing coil	588.50	No	588.50
3	140	LT PVC Al 95 sq.mm cable	91.00	m	12740.00
4	4.4	G.I.Wire 4mm (8SWG)	70.40	kg	309.76
5	3	200 A fuse unit	922.00	No	2766.00
6	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			16435.06
	(b)	Centage charges @16%			2629.61
		Expenditure on materials (Sub-total)			19064.67
	(c)	Cost of labour			3055.73
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3263.73
	(f)	Overhead charges on (c) & (d) above @10%			326.37
	(g)	Total (a+b+c+d+f)			22654.78
		Expenditure to be recovered			22654.78
		Rounded to `			22660.00
(Rupees Twenty two thousand six hundred and sixty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

**LT three phase weather proof service connection from
50kVA and above upto and including 100kVA**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	1	Earthing coil	588.50	No	588.50
3	140	LT PVC AL 120 sq.mm cable	99.00	m	13860.00
4	4.4	G.I.Wire 4mm (8SWG)	70.40	kg	309.76
5	3	200 A fuse unit	922.00	No	2766.00
6	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			17555.06
	(b)	Centage charges @16%			2808.81
		Expenditure on materials (Sub-total)			20363.87
	(c)	Cost of labour			3333.53
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3541.53
	(f)	Overhead charges on (c) & (d) above @10%			354.15
	(g)	Total (a+b+c+d+f)			24259.55
		Expenditure to be recovered			24259.55
		Rounded to `			24260.00
(Rupees Twenty four thousand two hundred and sixty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Providing support pole for weather proof service connection

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	1	Clamp with Bolt and Nut	99.84	set	99.84
	(a)	Cost of materials (sub-total)			3074.24
	(b)	Centage charges @16%			491.88
		Expenditure on materials (Sub-total)			3566.12
	(c)	Cost of labour			1039.76
	(d)	Cost of transportation			954.77
	(e)	Cost of labour & transportation Sub-total (c&d)			1994.54
	(f)	Overhead charges on (c) & (d) above @10%			199.45
	(g)	Total (a+b+c+d+f)			5760.11
		Expenditure to be recovered			5760.11
		Rounded to `			5760.00
(Rupees Five thousand seven hundred and sixty only)					
Note: 1.Cost of weather proof portion shall be collected extra					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

**LT single phase over head service connection upto and
including 50m with 1 Pole**

Sl.No	Qty	Particulars	Rate Rs.	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	2	2 line Xarm	231.00	No	462.00
3	2	Clamp G.I for LT cross arm (2/4 line)	71.50	No	143.00
4	4	Shackle set	66.00	set	264.00
5	1	LT stay set	732.60	set	732.60
6	0.5	Bolt&nut of sizes	90.00	Kg	45.00
7	5	ACSR Rabbit	38.05	m	190.23
	(a)	Cost of materials (sub-total)			4811.23
	(b)	Centage charges @16%			769.80
		Expenditure on materials (Sub-total)			5581.03
	(c)	Cost of labour			2323.26
	(d)	Cost of transportation			1234.87
	(e)	Cost of labour & transportation Sub-total (c&d)			3558.13
	(f)	Overhead charges on (c) & (d) above @10%			355.81
	(g)	Total (a+b+c+d+f)			9494.98
		Expenditure to be recovered			9494.98
		Rounded to `			9500.00
		Cost of OH line (= 38.05*2*1.16)	88.00	M	
		Total			9500+88 per M of OH line
Note: 1.Cost of weather proof portion shall be collected extra					
2.Charges for for providing additional pole, stays and struts if any required shall be collected extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

**LT single phase over head service connection above
50M upto and including 100m with maximum 2 Poles**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2	8m PSC Pole	2974.40	No	5948.80
2	3	2 line Xarm	231.00	No	693.00
3	3	Clamp G.I for LT cross crm (2/4 line)	71.50	No	214.50
4	4	Shackle set	66.00	set	264.00
5	2	Pin insulator set	57.00	set	114.00
6	2	Packing clamp for pin insulator	26.00	No	52.00
6	2	LT stay set	732.60	set	1465.20
7	1	Bolt & Nut of sizes	90.00	kg	90.00
8	110	ACSR Rabbit	38.05	m	4185.15
	(a)	Cost of materials (sub-total)			13026.65
	(b)	Centage charges @16%			2084.26
		Expenditure on materials (Sub-total)			15110.91
	(c)	Cost of labour			4646.53
	(d)	Cost of transportation			2469.74
	(e)	Cost of labour & transportation Sub-total (c&d)			7116.27
	(f)	Overhead charges on (c) & (d) above @10%			711.63
	(g)	Total (a+b+c+d+f)			22938.81
		Expenditure to be recovered			22938.81
		Rounded to `			22940.00
		Cost of OH line	88.00	M	
		Total	22940+88 per M of OH line		
<p>Note: 1. Cost of weather proof portion shall be collected extra 2. Charges for providing additional poles, stays and struts if any required shall be collected extra.</p>					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

LT single phase over head service connection above 100M

upto and including 150m with maximum 3 Poles

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3	8m PSC pole	2974.40	No	8923.20
2	4	2 line Xarm	231.00	No	924.00
3	4	Clamp G.I for LT cross arm (2/4 line)	71.50	No	286.00
4	4	Shackle set	66.00	set	264.00
5	4	Pin insulator set	57.00	set	228.00
6	4	Packing clamp for pin insulator	26.00	No	104.00
7	2	LT stay set	732.60	set	1465.20
8	1.50	Bolt & Nut of sizes	90.00	kg	135.00
9	215	ACSR Rabbit	38.05	m	8180.06
	(a)	Cost of materials (sub-total)			20509.46
	(b)	Centage charges @16%			3281.51
		Expenditure on materials (Sub-total)			23790.98
	(c)	Cost of labour			6969.79
	(d)	Cost of transportation			4119.65
	(e)	Cost of labour & transportation Sub-total (c&d)			11089.44
	(f)	Overhead charges on (c) & (d) above @10%			1108.94
	(g)	Total (a+b+c+d+f)			35989.36
		Expenditure to be recovered			35989.36
		Rounded to `			35990.00
		Cost of OH line	88.00	M	
		Total	35990+88 per M of OH line		

Note: 1. Cost of weather proof portion shall be collected extra

2. Charges for providing additional poles, stays and struts if any required shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

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**LT single phase over head service connection above
150M upto and including 200m with maximum 4 Poles**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	4	8m PSC Pole	2974.40	No	11897.60
2	5	2 line Xarm	231.00	No	1155.00
3	5	Clamp G.I for LT cross arm (2/4 line)	71.50	No	357.50
4	4	Shackle set	66.00	set	264.00
5	6	Pin Insulator set	57.00	set	342.00
6	6	Packing Clamp for Pin insulator	26.00	No	156.00
7	3	LT stay set	732.60	set	2197.80
8	2	Bolt & Nut of sizes	90.00	kg	180.00
9	320	ACSR Rabbit	38.05	m	12174.98
	(a)	Cost of materials (sub-total)			28724.88
	(b)	Centage charges @16%			4595.98
		Expenditure on materials (Sub-total)			33320.86
	(c)	Cost of labour			9293.05
	(d)	Cost of transportation			4939.48
	(e)	Cost of labour & transportation Sub-total (c&d)			14232.53
	(f)	Overhead charges on (c) & (d) above @10%			1423.25
	(g)	Total (a+b+c+d+f)			48976.64
		Expenditure to be recovered			48976.64
		Rounded to `			48980.00
		Cost of OH line	88.00	M	
		Total	48980+88 per M of OH line		

Note: 1. Cost of weather proof portion shall be collected extra

2. Charges for providing additional poles, stays and struts if any required shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

LT three phase over head service connection upto and including 50M with 1 pole

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	2	4 line Xarm	501.60	No	1003.20
3	2	Clamp G.I for LT cross Arm (2/4 line)	71.50	No	143.00
4	8	Shackle set	66.00	set	528.00
5	2	LT stay set	732.60	set	1465.20
6	1.25	Bolt & Nut of sizes	90.00	kg	112.50
7	10.00	ACSR Rabbit	38.05	m	380.47
	(a)	Cost of materials (sub-total)			6606.77
	(b)	Centage charges @16%			1057.08
		Expenditure on materials (Sub-total)			7663.85
	(c)	Cost of labour			2670.81
	(d)	Cost of transportation			1299.89
	(e)	Cost of labour & transportation Sub-total (c&d)			3970.70
	(f)	Overhead charges on (c) & (d) above @10%			397.07
	(g)	Total (a+b+c+d+f)			12031.62
		Expenditure to be recovered			12031.62
		Rounded to `			12040.00
		Cost of OH line (=38.05*4*1.16)	177.00	M	
		Total			12040+177 per M of OH line

Note: 1. Cost of weather proof portion shall be collected extra

2. Charges for providing additional poles, stays and struts if any required shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

LT three phase over head service connection above

50M upto and including 100m with maximum 2 poles.

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2	8m PSC Pole	2974.40	No	5948.80
2	3	4 line Xarm	501.60	No	1504.80
3	3	Clamp G.I for LT cross arm (2/4 line)	71.50	No	214.50
4	8	Shackle set	66.00	set	528.00
5	4	Pin insulator set	57.00	set	228.00
6	4	Packing clamp for pin insulator	26.00	No	104.00
7	2	LT stay set	732.60	set	1465.20
8	2.50	Bolt & Nut of sizes	90.00	kg	225.00
9	220	ACSR Rabbit	38.05	m	8370.30
	(a)	Cost of materials (sub-total)			18588.60
	(b)	Centage charges @16%			2974.18
		Expenditure on materials (Sub-total)			21562.77
	(c)	Cost of labour			5341.62
	(d)	Cost of transportation			2599.77
	(e)	Cost of labour & transportation Sub-total (c&d)			7941.39
	(f)	Overhead charges on (c) & (d) above @10%			794.14
	(g)	Total (a+b+c+d+f)			30298.30
		Expenditure to be recovered			30298.30
		Rounded to `			30300.00
		Cost of OH line	177.00	M	
		Total	30300+177 per M of OH line		

Note: 1. Cost of weather proof portion shall be collected extra

2. Charges for providing additional poles, stays and struts if any required shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

**LT three phase Over Head service connection above
100M upto and including 150m with maximum 3 poles**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3	8m PSC Pole	2974.40	No	8923.20
2	4	4 line Xarm	501.60	No	2006.40
3	4	Clamp G.I for LT cross arm (2/4 line)	71.50	No	286.00
4	8	Shackle set	66.00	set	528.00
5	8	Pin insulator set	57.00	set	456.00
6	8	Packing clamp for pin insulator	26.00	No	208.00
7	2	LT stay set	732.60	set	1465.20
8	3.75	Bolt & Nut of sizes	90.00	kg	337.50
9	430.00	ACSR Rabbit	38.05	m	16360.12
	(a)	Cost of materials (sub-total)			30570.42
	(b)	Centage charges @16%			4891.27
		Expenditure on materials (Sub-total)			35461.69
	(c)	Cost of labour			8012.42
	(d)	Cost of transportation			4314.70
	(e)	Cost of labour & transportation Sub-total (c&d)			12327.12
	(f)	Overhead charges on (c) & (d) above @10%			1232.71
	(g)	Total (a+b+c+d+f)			49021.53
		Expenditure to be recovered			49021.53
		Rounded to `			49030.00
		Cost of OH line	177.00	M	
		Total	49030+177 per M of OH line		

Note: 1. Cost of weather proof portion shall be collected extra

2. Charges for providing additional poles, stays and struts if any required shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

**LT three phase over head service connection above
150M upto and including 200m with maximum 4 poles**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	4	8m PSC Pole	2974.40	No	11897.60
2	5	4 line Xarm	501.60	No	2508.00
3	5	Clamp G.I for LT cross arm (2/4 line)	71.50	No	357.50
4	8	Shackle set	66.00	set	528.00
5	12	Pin insulator set	57.00	set	684.00
6	12	Packing clamp for pin insulator	26.00	No	312.00
7	3	LT stay set	732.60	set	2197.80
8	5	Bolt & Nut of sizes	90.00	kg	450.00
9	640	ACSR Rabbit	38.05	m	24349.95
	(a)	Cost of materials (sub-total)			43284.85
	(b)	Centage charges @16%			6925.58
		Expenditure on materials (Sub-total)			50210.43
	(c)	Cost of labour			10683.23
	(d)	Cost of transportation			5199.55
	(e)	Cost of labour & transportation Sub-total (c&d)			15882.78
	(f)	Overhead charges on (c) & (d) above @10%			1588.28
	(g)	Total (a+b+c+d+f)			67681.49
		Expenditure to be recovered			67681.49
		Rounded to `			67910.00
		Cost of OH line	177.00	M	
		Total			67910+177 per M of OH line

Note: 1. Cost of weather proof portion shall be collected extra

2. Charges for providing additional poles, stays and struts if any required shall be collected extra.

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Cost Data of Distribution works approved by the Commission for TCED
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Pole insertion in LT Single Phase Over Head line (without stay)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	1	2 line Xarm	231.00	No	231.00
3	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
4	2	Pin insulator set	57.00	set	114.00
5	2	Packing clamp for pin insulator	26.00	No	52.00
6	0.50	Bolt & Nut of sizes	90.00	kg	45.00
	(a)	Cost of materials (sub-total)			3487.90
	(b)	Centage charges @16%			558.06
		Expenditure on materials (Sub-total)			4045.96
	(c)	Cost of labour			1409.80
	(d)	Cost of transportation			1191.52
	(e)	Cost of labour & transportation Sub-total (c&d)			2601.33
	(f)	Overhead charges on (c) & (d) above @10%			260.13
	(g)	Total (a+b+c+d+f)			6907.43
		Expenditure to be recovered			6907.43
		Rounded to `			6910.00
(Rupees Six thousand nine hundred and ten only)					

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Pole insertion in LT single phase over head line (with stay)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	1	2 line Xarm	231.00	No	231.00
3	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
4	2	Pin insulator set	57.00	set	114.00
5	2	Packing clamp for pin insulator	26.00	No	52.00
6	1	LT stay set	732.60	set	732.60
7	0.50	Bolt & Nut of sizes	90.00	kg	45.00
	(a)	Cost of materials (sub-total)			4220.50
	(b)	Centage charges @16%			675.28
		Expenditure on materials (Sub-total)			4895.78
	(c)	Cost of labour			2009.93
	(d)	Cost of transportation			1191.52
	(e)	Cost of labour & transportation Sub-total (c&d)			3201.46
	(f)	Overhead charges on (c) & (d) above @10%			320.15
	(g)	Total (a+b+c+d+f)			8417.38
		Expenditure to be recovered			8417.38
		Rounded to `			8420.00
(Rupees Eight thousand four hundred andtwenty only)					

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Pole insertion in LT single phase over head line (with strut)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2	8m PSC Pole	2974.40	No	5948.80
2	3	2 line Xarm	231.00	No	693.00
3	1	Clamp G.I for LT cross crm (2/4 line)	71.50	No	71.50
4	2	Pin insulator set	57.00	set	114.00
5	2	Packing clamp for Pin insulator	26.00	No	52.00
6	1.50	Bolt & Nut of sizes	90.00	kg	135.00
	(a)	Cost of materials (sub-total)			7014.30
	(b)	Centage charges @16%			1122.29
		Expenditure on materials (Sub-total)			8136.59
	(c)	Cost of labour			2616.25
	(d)	Cost of transportation			2383.05
	(e)	Cost of labour & transportation Sub-total (c&d)			4999.30
	(f)	Overhead charges on (c) & (d) above @10%			499.93
	(g)	Total (a+b+c+d+f)			13635.81
		Expenditure to be recovered			13635.81
		Rounded to `			13640.00
(Rupees Thirteen thousand six hundred and forty only)					

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**Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19**

Pole insertion in LT three phase over head line (without stay)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	1	4 line Xarm	501.60	No	501.60
3	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
4	4	Pin insulator set	57.00	set	228.00
5	4	Packing clamp for pin insulator	26.00	No	104.00
6	1.25	Bolt & Nut of sizes	90.00	kg	112.50
	(a)	Cost of materials (sub-total)			3992.00
	(b)	Centage charges @16%			638.72
		Expenditure on materials (Sub-total)			4630.72
	(c)	Cost of labour			1515.90
	(d)	Cost of transportation			1525.67
	(e)	Cost of labour & transportation Sub-total (c&d)			3041.57
	(f)	Overhead charges on (c) & (d) above @10%			304.16
	(g)	Total (a+b+c+d+f)			7976.44
		Expenditure to be recovered			7976.44
		Rounded to `			7980.00
(Rupees seven thousand nine hundred eighty only)					

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Pole insertion in LT three phase over head line (with stay)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	No	2974.40
2	1	4 line Xarm	501.60	No	501.60
3	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
4	4	Pin insulator set	57.00	set	228.00
5	4	Packing clamp for pin insulator	26.00	No	104.00
6	1	LT stay set	732.60	set	732.60
7	1.25	Bolt & Nut of sizes	90.00	kg	112.50
	(a)	Cost of materials (sub-total)			4724.60
	(b)	Centage charges @16%			755.94
		Expenditure on materials (Sub-total)			5480.54
	(c)	Cost of labour			2116.03
	(d)	Cost of transportation			1525.67
	(e)	Cost of labour & transportation Sub-total (c&d)			3641.69
	(f)	Overhead charges on (c) & (d) above @10%			364.17
	(g)	Total (a+b+c+d+f)			9486.40
		Expenditure to be recovered			9486.40
		Rounded to `			9490.00
(Rupees Nine thousand four hundred and ninety only)					

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Pole insertion in LT three phase over head line (with strut)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2	8m PSC Pole	2974.40	No	5948.80
2	1	4 line Xarm	501.60	No	501.60
3	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
4	2	2 line Xarm	231.00	No	462.00
5	4	Pin insulator set	57.00	set	228.00
6	4	Packing Clamp for pin insulator	26.00	No	104.00
7	2.00	Bolt & Nut of sizes	90.00	kg	180.00
	(a)	Cost of materials (sub-total)			7495.90
	(b)	Centage charges @16%			1199.34
		Expenditure on materials (Sub-total)			8695.24
	(c)	Cost of labour			2722.34
	(d)	Cost of transportation			2383.05
	(e)	Cost of labour & transportation Sub-total (c&d)			5105.39
	(f)	Overhead charges on (c) & (d) above @10%			510.54
	(g)	Total (a+b+c+d+f)			14311.18
		Expenditure to be recovered			14311.18
		Rounded to `			14320.00
(Rupees Forteen thousand three hundred and twenty only)					

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Conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with connected load upto and including 10kW

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz.	20.80
2	4.4	G.I. wire 4mm	70.40	kg	309.76
3	80	Weather proof 1/2.8 (2x6sqmm)	16.83	m	1346.40
4	2	32 A fuse unit	78.94	E	157.88
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			1844.84
	(b)	Centage charges @16%			295.17
		Expenditure on materials (Sub-total)			2140.01
	(c)	Cost of labour			1944.56
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			2152.56
	(f)	Overhead charges on (c) & (d) above @10%			215.26
	(g)	Credit depreciated value @50% for the following 40 m weather proof wire 1/1.8mm TC@9 /m,1No. 32 A fuse unit@Rs.122,GI wire,2.2 kg @Rs.82/-			-392.00
	(h)	Total (a+b+c+d+f+g)			4115.83
		Expenditure to be recovered			4115.83
		Rounded to `			4120.00
(Rupees Four thousand one hundred and twenty only)					

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Cost Data of Distribution works approved by the Commission for TCED
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Conversion of LT single phase weather proof service connection to LT three phase weather proof serviceconnection with load above 10kW upto and including 25kW

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	4.4	GI wire 4 mm(8SWG)	70.40	kg	309.76
3	160	PVC 50 sq.mm S.C AL cable	52.00	m	8320.00
4	3	100 A fuse unit	402.00	E	1206.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			9866.56
	(b)	Centage charges @16%			1578.65
		Expenditure on materials (Sub-total)			11445.21
	(c)	Cost of labour			2777.94
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			2985.94
	(f)	Overhead charges on (c) & (d) above @10%			298.59
	(g)	Credit depreciated value @50% for the following 40 m weather proof wire 1/1.8mm TC@9 /m,1No. 32 A fuse unit@Rs.122,GI wire,2.2 kg @Rs.82/-			-392.00
	(h)	Total (a+b+c+d+f+g)			14337.74
		Expenditure to be recovered			14337.74
		Rounded to `			14340.00
(Rupees Fourteen thousand three hundred and forty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

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Conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with load above 25kW upto and including 50kVA

Sl.No	Qty	Particulars	Rate (Rs)	Unit	Amount (Rs)
1	1	Iron screws of sizes	20.80	doz	20.80
2	4.4	GI wire 4mm	70.40	kg	309.76
3	160	PVC 95 sq.mm S.C AL cable	91.00	m	14560.00
4	3	200 A fuse unit	922.00	No	2766.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			17666.56
	(b)	Centage charges @16%			2826.65
		Expenditure on materials (Sub-total)			20493.21
	(c)	Cost of labour			3055.73
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3263.73
	(f)	Overhead charges on (c) & (d) above @10%			326.37
	(g)	Credit depreciated value @50% for the following 40 m weather proof wire 1/1.8mm TC@9 /m,1No. 32 A fuse unit@Rs.122,GI wire,2.2 kg @Rs.82/-			-392.00
	(h)	Total (a+b+c+d+f+g)			23691.32
		Expenditure to be recovered			23691.32
		Rounded to `			23700.00
(Rupees Twenty three thousand and seven hundred only)					

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Conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with load above 50kVA and up to and including 100kVA

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	4.4	GI wire 4 mm	70.40	kg	309.76
3	160	PVC 120 sq.mm AL S.C cable	99.00	m	15840.00
4	3	200 A fuse unit	922.00	No	2766.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			18946.56
	(b)	Centage charges @16%			3031.45
		Expenditure on materials (Sub-total)			21978.01
	(c)	Cost of labour			3055.73
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3263.73
	(f)	Overhead charges on (c) & (d) above @10%			326.37
	(g)	Credit depreciated value @50% for the following 40 m weather proof wire 1/1.8mm TC@9 /m, 1No. 32 A fuse unit@Rs.122,GI wire,2.2 kg @Rs.82/-			-392.00
	(h)	Total (a+b+c+d+f+g)			25176.12
		Expenditure to be recovered			25176.12
		Rounded to `			25180.00

(Rupees Twenty five thousand one hundred and eighty only)

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**Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19**

**Enhancement of connected load of LT three phase weather proof service connection
with a max. load of 10kW into the range of 10 kW to 25 kW.**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	4.4	GI wire 4 mm (8SWG)	70.40	kg	309.76
3	160	LT PVC AL 50 Sq.mm cable	52.00	m	8320.00
4	3	100 A fuse unit	402.00	No	1206.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			9866.56
	(b)	Centage charges @16%			1578.65
		Expenditure on materials (Sub-total)			11445.21
	(c)	Cost of labour			2222.35
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			2430.35
	(f)	Overhead charges on (c) & (d) above @10%			243.04
	(g)	Credit depreciated value @50% for the following 60 m weather proof wire 1/6 mm TC@18.27/m,3No. 32 A fuse unit@Rs.122,GI wire,4.4 kg @Rs.82/-			-911.00
	(h)	Total (a+b+c+d+f+g)			13207.60
		Expenditure to be recovered			13207.60
		Rounded to Rs.			13210.00
(Rupees Thirteen thousand two hundred and ten only)					

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Cost Data of Distribution works approved by the Commission for TCED
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**Enhancement of connected load of LT three phase weather proof service connection
with a maximum connected load of 10 kW into the range of 25 kW 50 kVA.**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	160	PVC 95 Sqmm S.C cable	91.00	m	14560.00
3	4.4	GI wire 4mm	70.40	kg	309.76
4	3	200 A fuse unit	922.00	No	2766.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			17666.56
	(b)	Centage charges @16%			2826.65
		Expenditure on materials (Sub-total)			20493.21
	(c)	Cost of labour			3055.73
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3263.73
	(f)	Overhead charges on (c) & (d) above @10%			326.37
	(g)	Credit depreciated value @50% for the following 60 m weather proof wire 1/6mm TC@18.27/m,3No. 32 A fuse unit@Rs.122,GI wire, 4.4 kg @Rs.82/-			-911.00
	(h)	Total (a+b+c+d+f+g)			23172.32
		Expenditure to be recovered			23172.32
		Rounded to Rs.			23180.00
(Rupees Twenty three thousand one hundred and eighty only)					

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Cost Data of Distribution works approved by the Commission for TCED
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Enhancement of connected load of LT three phase service connection with a
maximum connected load of 10 kW into the range of 50 kVA to 100 kVA .

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	1	Earthing coil	588.50	No	588.50
3	160	PVC 120 Sqmm S.C cable	99.00	m	15840.00
4	4.4	GI wire 4mm (8SWG)	70.40	kg	309.76
5	3	200 A fuse unit	922.00	No	2766.00
6	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			19535.06
	(b)	Centage charges @16%			3125.61
		Expenditure on materials (Sub-total)			22660.67
	(c)	Cost of labour			3333.53
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3541.53
	(f)	Overhead charges on (c) & (d) above @10%			354.15
	(g)	Credit depreciated value @50% for the following 60 m weather proof wire 1/6mm TC@18.27/m,3No. 32 A fuse unit@Rs.122,GI wire,4.4 kg @Rs.82/-			-911.00
	(h)	Total (a+b+c+d+f+g)			25645.35
		Expenditure to be recovered			25645.35
		Rounded to Rs.			25650.00
(Rupees Twenty five thousand six hundred and fifty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Enhancement of connected load of LT three phase service connection with load in the range of 10kW - 25 kW into the range 25 kW - 50kVA

Sl.No	Quantity	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	160	PVC 95 Sqmm S.C	91.00	m	14560.00
3	4.4	GI wire 4mm (8SWG)	70.40	kg	309.76
4	3	200 A fuse unit	922.00	No	2766.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			17666.56
	(b)	Centage charges @16%			2826.65
		Expenditure on materials (Sub-total)			20493.21
	(c)	Cost of labour			3055.73
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3263.73
	(f)	Overhead charges on (c) & (d) above @10%			326.37
	(g)	Credit depreciated value @50% for the following 40 m LT PVC AL Cable 50sq.mm@52.00/m,3No. 100 A fuse unit@Rs.402,GI wire,4.4 kg @Rs.82/-			-1823.00
	(h)	Total (a+b+c+d+f+g)			22260.32
		Expenditure to be recovered			22260.32
		Rounded to			22260.00
(Rupees Twenty two thousand two hundred and sixty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

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for the financial year 2018-19**

**Enhancement of connected load of LT three Phase service connection with load in
the range of 10kW - 25 kW into the range of 50 kVA -100 kVA**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	160	PVC 120 Sqmm S.C cable	99.00	m	15840.00
3	4.4	GI wire 4 mm (8SWG)	70.40	kg	309.76
4	3	200 A fuse unit	922.00	No	2766.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			18946.56
	(b)	Centage charges @16%			3031.45
		Expenditure on materials (Sub-total)			21978.01
	(c)	Cost of labour			3333.53
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3541.53
	(f)	Overhead charges on (c) & (d) above @10%			354.15
	(g)	Credit depreciated value @50% for the following 40 m LT PVC AL Cable 50sq.mm@52.00/m,3No. 100 A fuse unit@Rs.402,GI wire,4.4 kg @Rs.82/-			-1823.00
	(h)	Total (a+b+c+d+f+g)			24050.69
		Expenditure to be recovered			24050.69
		Rounded to			24060.00
(Rupees Twenty four thousand and sixty only)					

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**Cost Data of Distribution works approved by the Commission for TCED
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**Enhancement of connected load of LT three Phase service connection with load in
the range of 25kW - 50 kVA into the range of 50 kVA -100 kVA**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	20.80	doz	20.80
2	160	PVC 120 Sqmm S.C cable	99.00	m	15840.00
3	4.4	GI wire 4 mm (8SWG)	70.40	kg	309.76
4	2	Bolts and Nuts of sizes	90.00	kg	180.00
5	1	Insulation tape	10.00	roll	10.00
	(a)	Cost of materials (sub-total)			16360.56
	(b)	Centage charges @16%			2617.69
		Expenditure on materials (Sub-total)			18978.25
	(c)	Cost of labour			3333.53
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			3541.53
	(f)	Overhead charges on (c) & (d) above @10%			354.15
	(g)	Credit depreciated value @50% for the following 40 m LT PVC AL Cable 95sq.mm@91.00/m,GI wire, 4.4 kg @Rs.82/-			-2000.00
	(h)	Total (a+b+c+d+f+g)			20873.93
		Expenditure to be recovered			20873.93
		Rounded to `			20880.00
(Rupees Twenty thousand eight hundred and eighty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION
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for the financial year 2018-19
Shifting Single Phase Energy Meters

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	No . Shifting one Single Phase Metering equipment with all fittings including lowering down the WP service wire ,Dismantling meter Board without making damage and refitting the same at new location and redoing the WP service wire with all fittings.		Each	527.81
		Add 10% overhead chrges			52.78
	(a)	Total			580.59
		Expenditure to be recovered			580.59
					Rounded to `
					580.00
(Rupees Five hundred and eighty only)					

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Shifting Three Phase EnergyMeters

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	No . Shifting one three Phase metering equipment with all fittings including lowering down the WP service wire ,dismantling meter board without making damage and refitting the same at new location and redoing the WP service wire with all fittings.		Each	694.49
		Add 10% overhead charges			69.45
	(a)	Total			763.93
		Expenditure to be recovered			763.93
		Rounded to `			770.00
(Rupees seven hundred and seventy only)					

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Shifting Three Phase CT Meters

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	No Shifting one three Phase CT Metering equipment with all fittings including lowering down the WP service wire ,Dismantling meter board without making damage and refitting the same at new location and redoing the WP service wire with all fittings.		Each	1222.29
		Add 10% overhead charges			122.23
	(a)	Total			1344.52
		Expenditure to be recovered			1344.52
		Rounded to Rs.			1350.00
(Rupees One thousand three hundred and fifty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

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HT pole insertion in HT/LT line (with stay)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	9m PSC pole	4517.70	No	4517.70
2	1	V cross arm	715.00	No	715.00
3	1	Clamp G.I for V cross arm	165.00	No	165.00
4	1	4 Line X arm	501.60	No	501.60
5	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
6	3	11 kV Pin insulator set	139.00	set	417.00
7	4	LT Pin insulator set	57.00	set	228.00
8	4	Packing clamp for pin insulator	28.60	No	114.40
9	1	Stay set complete	850.00	set	850.00
10	1	Provision for earthing	595.02	No	595.02
11	3	Pole top bracket	113.00	No	339.00
12	1.50	Bolt & Nut of sizes	90.00	kg	135.00
	(a)	Cost of materials (sub-total)			8649.22
	(b)	Centage charges @16%			1383.88
		Expenditure on materials (Sub-total)			10033.10
	(c)	Cost of labour			3435.81
	(d)	Cost of transportation			1709.42
	(e)	Cost of labour & transportation Sub-total (c&d)			5145.23
	(f)	Overhead charges on (c) & (d) above @10%			514.52
	(g)	Total (a+b+c+d+f)			15692.85
		Expenditure to be recovered			15692.85
		Rounded to `			15700.00
(Rupee Fifteen thousand seven hundred only)					

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Cost Data of Distribution works approved by the Commission for TCED
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HT pole insertion in HT/LT line (with strut using 8m pole)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	9m PSC Pole	4517.70	No	4517.70
2	1	8M PSC Pole	2974.40	No	2974.40
2	1	V cross arm	715.00	No	715.00
3	1	Clamp G.I for V cross Arm	165.00	No	165.00
4	1	4 Line X arm	501.60	No	501.60
5	1	Clamp G.I for LT cross arm (2/4 line)	71.50	No	71.50
6	3	11 kV Pin insulator set	139.00	set	417.00
7	4	LT Pin insulator set	57.00	set	228.00
8	3	Packing clamp for pin insulator	28.60	No	85.80
9	3	Pole top bracket	113.00	No	339.00
10	1.50	Bolt & Nut of sizes	90.00	No	135.00
	(a)	Cost of materials (sub-total)			10150.00
	(b)	Centage charges @16%			1624.00
		Expenditure on materials (Sub-total)			11774.00
	(c)	Cost of labour			3784.26
	(d)	Cost of transportation			2027.73
	(e)	Cost of labour & transportation Sub-total (c&d)			5812.00
	(f)	Overhead charges on (c) & (d) above @10%			581.20
	(g)	Total (a+b+c+d+f)			18167.20
		Expenditure to be recovered			18167.20
		Rounded to `			18170.00
(Rupees Eighteen thousand one hundred and seventy only)					

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Providing strut using LT pole

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	8m PSC Pole	2974.40	E	2974.40
2	2	2 line Xarm	231.00	E	462.00
3	1	Bolt & Nut of sizes	90.00	E	90.00
	(a)	Cost of materials (sub-total)			3526.40
	(b)	Centage charges @16%			564.22
		Expenditure on materials (Sub-total)			4090.62
	(c)	Cost of labour			1226.37
	(d)	Cost of transportation			1191.52
	(e)	Cost of labour & transportation Sub-total (c&d)			2417.89
	(f)	Overhead charges on (c) & (d) above @10%			241.79
	(g)	Total (a+b+c+d+f)			6750.31
		Expenditure to be recovered			6750.31
		Rounded to `			6750.00
(Rupees Six thousand seven hundred and fifty only)					

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for the financial year 2018-19

Providing strut using HT pole

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	9m PSC pole	4517.70	E	4517.70
2	2	2 line Xarm	231.00	E	462.00
3	1	Bolt & Nut of sizes	90.00	E	90.00
	(a)	Cost of materials (sub-total)			5069.70
	(b)	Centage charges @16%			811.15
		Expenditure on materials (Sub-total)			5880.85
	(c)	Cost of labour			2044.20
	(d)	Cost of transportation			1191.52
	(e)	Cost of labour & transportation Sub-total (c&d)			3235.73
	(f)	Overhead charges on (c) & (d) above @10%			323.57
	(g)	Total (a+b+c+d+f)			9440.15
		Expenditure to be recovered			9440.15
		Rounded to `			9440.00
(Rupees Nine thousand four hundred and forty only)					

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Providing LT stay

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	LT stay set	732.60	set	732.60
2	0.5	Bolt & Nut of sizes	90.00	kg	45.00
	(a)	Cost of materials (sub-total)			777.60
	(b)	Centage charges @16%			124.42
		Expenditure on materials (Sub-total)			902.02
	(c)	Cost of labour			600.13
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			808.13
	(f)	Overhead charges on (c) & (d) above @10%			80.81
	(g)	Total (a+b+c+d+f)			1790.95
		Expenditure to be recovered			1790.95
		Rounded to `			1800.00
(Rupees One thousand and eight hundred only)					

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Providing HT stay

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Stay set complete	850.00	set	850.00
2	1	Bolt & Nut of sizes	90.00	kg	90.00
	(a)	Cost of materials (sub-total)			940.00
	(b)	Centage charges @16%			150.40
		Expenditure on materials (Sub-total)			1090.40
	(c)	Cost of labour			877.92
	(d)	Cost of transportation			208.00
	(e)	Cost of labour & transportation Sub-total (c&d)			1085.92
	(f)	Overhead charges on (c) & (d) above @10%			108.59
	(g)	Total (a+b+c+d+f)			2284.91
		Expenditure to be recovered			2284.91
		Rounded to `			2290.00
(Rupees Two thousand two hundred and ninety only)					

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Reconductoring 1 conductor of LT line with ACSR Rabbit

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1050	ACSR Rabbit	38.05	m	39949.14
	(a)	Cost of materials (Sub-total)			39949.14
	(b)	Centage charges @16%			6391.86
		Expenditure on materials (Sub-total)			46341.00
	(c)	Cost of labour			14200.26
	(d)	Cost of transportation			416.02
	(e)	Cost of labour & transportation			14616.28
	(f)	Overhead charges on (c) & (d) above @10%			1461.63
	(g)	Cost of taken back materials (assuming AAC/AAAC) 1000x60 gm (=60kg)	124.00	kg	-7440.00
	(h)	Total (a+b+c+d+f+g)			54978.91
		Expenditure to be recovered			54978.91
		Expenditure to be recovered per metre			54.98
		Rounded to `			55.00
		(Rupees Fiftyfive per metre only)			

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Cost Data of Distribution works approved by the Commission

for K.S.E.B.Ltd for the financial year 2018-19

Reconductoring 1 conductor of LT line with ACSR Weasel

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1050	ACSR Weasel	25.00	m	26250.00
	(a)	Cost of materials (Sub-total)			26250.00
	(b)	Centage charges @16%			4200.00
		Expenditure on materials (Sub-total)			30450.00
	(c)	Cost of labour			14116.04
	(d)	Cost of transportation			416.02
	(e)	Cost of labour & transportation			14532.06
	(f)	Overhead charges on (c) & (d) above @10%			1453.21
	(g)	Cost of taken back materials (assuming AAC/AAAC) 1000x60 gm (=60kg)	124.00	kg	-7440.00
	(h)	Total (a+b+c+d+f+g)			38995.27
		Expenditure to be recovered			38995.27
		Expenditure to be recovered per metre			39.00
		Rounded to `			39.00
(Rupees thirty nine per metre only)					
*Scrap value based on survey report of 2014					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Reconductoring 1Km HT line ,with ACSR Raccoon

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3150	ACSR Raccoon	49.00	m	154350.00
	(a)	Cost of materials (Sub-total)			154350.00
	(b)	Centage charges @16%			24696.00
		Expenditure on materials (Sub-total)			179046.00
	(c)	Cost of labour			53456.13
	(d)	Transportation			2495.24
	(e)	Cost of labour & transportation Sub-total (c&d)			55951.37
	(f)	Overhead charges on (c) & (d) above @10%			5595.14
	(g)	Cost of taken back materials (assuming ACSR Mink)1000x204 gm (=204kg)	104.00	kg	-21216.00
	(h)	Total (a+b+c+d+f+g)			219376.51
		Expenditure to be recovered			219376.51
		Expenditure to be recovered per metre			219.38
		Rounded to `			220.00
		(Rupees Two hundred and twenty per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Reconductoring 1Km HT line ,with ACSR Rabbit

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3150	ACSR Rabbit	38.05	m	119847.42
	(a)	Cost of materials (Sub-total)			119847.42
	(b)	Centage charges @16%			19175.59
		Expenditure on materials (Sub-total)			139023.01
	(c)	Cost of labour			48100.29
	(d)	Transportation,loading &unloading			2495.24
	(e)	Cost of labour & transportation Sub-total (c&d)			50595.53
	(f)	Overhead charges on (c) & (d) above @10%			5059.55
	(g)	Cost of taken back materials (assuming ACSR Mink)1000x204 gm (=204kg)	104.00	kg	-21216.00
	(h)	Total (a+b+c+d+f+g)			173462.09
		Expenditure to be recovered			173462.09
		Expenditure to be recovered per metre			173.46
		Rounded to `			174.00
		(Rupees One hundred and seventy four per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

**Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19**

**Adding one conductor (ACSR Rabbit) on the existing poles
(where cross arm is available)**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1050	ACSR Rabbit	38.05	m	39949.14
2	14	LT Shackle insulators set	66.00	set	924.00
3	21	LT pin insulator set	57.00	set	1197.00
4	21	Packing clamp for pin insulator	28.60	No	600.60
5	LS	Provision for sectionalizing	1789.52	LS	1789.52
	(a)	Cost of materials (sub-total)			44460.26
	(b)	Centage charges @16%			7113.64
		Expenditure on materials (Sub-total)			51573.90
	(c)	Cost of labour			28820.06
	(d)	Cost of transportation			416.02
	(e)	Cost of labour & transportation Sub-total (c&d)			29236.08
	(f)	Overhead charges on (c) & (d) above @10%			2923.61
	(g)	Total (a+b+c+d+f)			83733.58
		Expenditure to be recovered			83733.58
		Expenditure to be recovered per metre			83.73
		Rounded to `			84.00
		(Rupees Eighty four per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

**Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19**

**Adding one conductor (ACSR Rabbit) on the existing poles
(where cross arm is not available)**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1050	ACSR Rabbit	38.05	m	39949.14
2	35	2 line Xarm	231.00	No	8085.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	No	2502.50
4	14	LT Shackle set	66.00	set	924.00
5	21	LT pin insulator set	57.00	set	1197.00
6	21	Packing clamp for pin insulator	28.60	No	600.60
7	LS	Provision for sectionalizing	1789.52	Ls	1789.52
8	15	Bolts and Nuts	90.00	kg	1350.00
	(a)	Cost of materials (sub-total)			56397.76
	(b)	Centage charges @16%			9023.64
		Expenditure on materials (Sub-total)			65421.40
	(c)	Cost of labour			30209.03
	(d)	Cost of transportation			416.02
	(e)	Cost of labour & transportation Sub-total (c&d)			30625.05
	(f)	Overhead charges on (c) & (d) above @10%			3062.50
	(g)	Total (a+b+c+d+f)			99108.95
		Expenditure to be recovered			99108.95
		Expenditure to be recovered per metre			99.11
		Rounded to `			100.00
(Rupees One hundred per metre only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission
for K.S.E.B.Ltd for the financial year 2018-19

Adding one conductor (ACSR Weasel) for 1Km on the existing poles (where cross arm is available)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1050	ACSR Weasel	25.00	m	26250.00
2	14	LT Shackle set	66.00	set	924.00
3	21	LT pin insulator set	57.00	set	1197.00
4	21	Packing Clamp for pin insulator	28.60	No	600.60
5	LS	Provision for sectionalizing	1789.52	LS	1789.52
	(a)	Cost of materials (sub-total)			30761.12
	(b)	Centage charges @16%			4921.78
		Expenditure on materials (Sub-total)			35682.90
	(c)	Cost of labour			28736.72
	(d)	Cost of transportation			416.02
	(e)	Cost of labour & transportation Sub-total (c&d)			29152.74
	(f)	Overhead charges on (c) & (d) above @10%			2915.27
	(g)	Total (a+b+c+d+f)			67750.91
		Expenditure to be recovered			67750.91
		Expenditure to be recovered per metre			67.75
		Rounded to `			68.00
(Rupees Sixty eight per metre only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission
for K.S.E.B.Ltd for the financial year 2018-19

Adding one conductor (ACSR Weasel) for 1Km on the existing poles (where cross arm is not available)

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1050	ACSR Weasel	25.00	m	26250.00
2	35	2 line Xarm	231.00	Nos	8085.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos	2502.50
4	14	LT Shackle set	66.00	set	924.00
5	21	LT pin insulator set	57.00	set	1197.00
6	21	Packing Clamp for pin insulator	28.60	No	600.60
7	LS	Provision for sectionalizing	1789.52	Ls	1789.52
8	15	Bolts and Nuts	90.00	kg	1350.00
	(a)	Cost of materials (sub-total)			42698.62
	(b)	Centage charges @16%			6831.78
		Expenditure on materials (Sub-total)			49530.40
	(c)	Cost of labour			30125.69
	(d)	Cost of transportation			416.02
	(e)	Cost of labour & transportation Sub-total (c&d)			30541.71
	(f)	Overhead charges on (c) & (d) above @10%			3054.17
	(g)	Total (a+b+c+d+f)			83126.28
		Expenditure to be recovered			83126.28
		Expenditure to be recovered per metre			83.13
		Rounded to `			83.00
(Rupees Eighty three per metre only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Conversion of 1 Km of LT single phase 2 wire to LT three Phase 4 wire line

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2100	ACSR Rabbit	38.05	m	79898.28
2	35	4 line Xarm	501.60	Nos	17556.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos	2502.50
4	28	LT Shackle set	66.00	set	1848.00
5	42	LT Pin insulator set	57.00	set	2394.00
6	42	Packing clamp for pin insulator	28.60	No	1201.20
7	12	Bolts and nuts	90.00	kg	1080.00
8	4	LT lightning arrestors	407.00	Nos	1628.00
	(a)	Cost of materials (sub-total)			108107.98
	(b)	Centage charges @16%			17297.28
		Expenditure on materials (Sub-total)			125405.26
	(c)	Cost of labour			42228.33
	(d)	Cost of transportation			832.04
	(e)	Cost of labour & transportation Sub-total (c&d)			43060.37
	(f)	Overhead charges on (c) & (d) above @10%			4306.04
	(g)	Total (a+b+c+d+f)			172771.66
		Expenditure to be recovered			172771.66
		Expenditure to be recovered per metre			172.77
		Rounded to `			173.00
(Rupees One hundred and seventy three per metre only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Conversion of 1 Km of LT single phase 2 wire to LT three phase 5 wire line

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3150	ACSR Rabbit	38.05	m	119847.42
2	35	4 line Xarm	501.60	Nos	17556.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos	2502.50
4	42	LT Shackle set	66.00	set	2772.00
5	63	Pin insulator set	57.00	set	3591.00
6	63	Packing clamp for pin insulator	28.60	No	1801.80
7	12	Bolts and nuts	90.00	kg	1080.00
8	4	LT lightning arrestors	407.00	Nos	1628.00
	(a)	Cost of materials (sub-total)			150778.72
	(b)	Centage charges @16%			24124.60
		Expenditure on materials (Sub-total)			174903.32
	(c)	Cost of labour			45132.22
	(d)	Cost of transportation			1248.06
	(e)	Cost of labour & transportation Sub-total (c&d)			46380.27
	(f)	Overhead charges on (c) & (d) above @10%			4638.03
	(g)	Total (a+b+c+d+f)			225921.62
		Expenditure to be recovered			225921.62
		Expenditure to be recovered per metre			225.92
		Rounded to `			226.00
(Rupees Two hundred and twenty six per metre only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

**Conversion of 1Km of LT Single Phase three wire line to
LT three phase 5 wire line**

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2100	ACSR Rabbit	38.05	m	79898.28
2	35	2 line Xarm	231.00	Nos	8085.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos	2502.50
4	28	LT Shackle set	66.00	set	1848.00
5	42	LT Pin insulator set	57.00	set	2394.00
6	42	Packing clamp for pin insulator	28.60	No	1201.20
7	12	Bolts and nuts	90.00	kg	1080.00
8	4	LT lightning arrestors	407.00	Nos	1628.00
	(a)	Cost of materials (sub-total)			98636.98
	(b)	Centage charges @16%			15781.92
		Expenditure on materials (Sub-total)			114418.90
	(c)	Cost of labour			47838.20
	(d)	Cost of transportation			832.04
	(e)	Cost of labour & transportation Sub-total (c&d)			48670.23
	(f)	Overhead charges on (c) & (d) above @10%			4867.02
	(g)	Total (a+b+c+d+f)			167956.15
		Expenditure to be recovered			167956.15
		Expenditure to be recovered per metre			167.96
		Rounded to `			168.00
		(Rupees One hundred and Sixty eight per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Drawing 1Km Single Phase 2 wire line under existing HT line

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	2 line Xarm	231.00	Nos.	5544.00
2	24	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	1716.00
3	16	LT shackles set	66.00	Nos.	1056.00
4	32	LT pin insulator set	57.00	set	1824.00
5	32	Packing clamp for pin insulator	28.60	No	915.20
6	15	Bolt and Nuts of size	90.00	kg	1350.00
7	2100	ACSR Rabbit	38.05	m	79898.28
8	2	LT lightning Arrestor	407.00	Nos.	814.00
9	6	Earthing complete	693.12	Nos.	4158.72
10	LS	Provision for sectionalizing	1789.52	LS	1789.52
11	20	Composite LT spacers	34.00	E	680.00
	(a)	Cost of materials (sub-total)			99745.72
	(b)	Centage charges @16%			15959.31
		Expenditure on materials (Sub-total)			115705.03
	(c)	Cost of labour			18213.85
	(d)	Cost of transportation			832.04
	(e)	Cost of labour & transportation Sub-total (c&d)			19045.89
	(f)	Overhead charges on (c) & (d) above @10%			1904.59
	(g)	Total (a+b+c+d+f)			136655.51
		Expenditure to be recovered			136655.51
		Expenditure to be recovered per metre			136.66
		Rounded to `			137.00
		(Rupees One hundred and thirty seven per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

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Drawing 1Km Single Phase 3 wire line under existing HT line

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	4 line Xarm	501.60	Nos.	12038.40
2	24	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	1716.00
3	24	LT Shackles set	66.00	Nos.	1584.00
4	48	LT Pin insulatorset	57.00	set	2736.00
5	48	Packing clamp for pin insulator	28.60	No	1372.80
6	20	Bolt and Nuts of size	90.00	kg	1800.00
7	3150	ACSR Rabbit	38.05	m	119847.42
8	2	LT Lightning Arrestor	407.00	Nos.	814.00
9	6	Earthing complete	693.12	Nos.	4158.72
10	LS	Provision for sectionalising	1789.52	Ls	1789.52
11	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			148536.86
	(b)	Centage charges @16%			23765.90
		Expenditure on materials (Sub-total)			172302.75
	(c)	Cost of labour			32230.14
	(d)	Cost of transportation			1248.06
	(e)	Cost of labour & transportation Sub-total (c&d)			33478.20
	(f)	Overhead charges on (c) & (d) above @10%			3347.82
	(g)	Total (a+b+c+d+f)			209128.78
		Expenditure to be recovered			209128.78
		Expenditure to be recovered per metre			209.13
		Rounded to `			210.00
		(Rupees Two hundred and ten per metre only)			

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Drawing 1Km 3 phase 4 wire line under existing HT line

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	4 line Xarm	501.60	Nos.	12038.40
2	24	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	1716.00
3	32	LT Shackles set	66.00	Nos.	2112.00
4	64	LT Pin insulator set	57.00	set	3648.00
5	64	Packing clamp for pin insulator	28.60	No	1830.40
6	20	Bolt and Nuts of sizes	90.00	Kg	1800.00
7	4200	ACSR Rabbit	38.05	m	159796.56
8	6	LT Lightning Arrestor	407.00	Nos.	2442.00
9	6	Earthing complete	693.12	Nos.	4158.72
10	LS	Provision for sectionalizing	1789.52	Ls	1789.52
11	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			192011.60
	(b)	Centage charges @16%			30721.86
		Expenditure on materials (Sub-total)			222733.45
	(c)	Cost of labour			36574.45
	(d)	Cost of transportation			1664.08
	(e)	Cost of labour & transportation Sub-total (c&d)			38238.53
	(f)	Overhead charges on (c) & (d) above @10%			3823.85
	(g)	Total (a+b+c+d+f)			264795.83
		Expenditure to be recovered			264795.83
		Expenditure to be recovered per metre			264.80
		Rounded to `			265.00
		(Rupees Two hundred and sixty five per metre only)			

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Drawing 1Km Three phase 5 wire line under existing HT line

Sl No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	4 line Xarm	501.60	Nos.	12038.40
2	24	2 line Xarm	231.00	Nos.	5544.00
3	48	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	3432.00
4	40	LT Shackles set	66.00	Nos.	2640.00
5	80	LT Pin insulator set	57.00	set	4560.00
6	80	Packing clamp for pin insulator	28.60	No	2288.00
7	30	Bolt and Nuts of sizes	90.00	kg	2700.00
8	5250	ACSR Rabbit	38.05	m	199745.70
9	6	LT Lightning Arrestor	407.00	Nos.	2442.00
10	6	Earthing complete	693.12	Nos.	4158.72
11	LS	Provision for sectionalising	1789.52	Ls	1789.52
12	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			242018.34
	(b)	Centage charges @16%			38722.93
		Expenditure on materials (Sub-total)			280741.27
	(c)	Cost of labour			40918.75
	(d)	Cost of transportation			2080.10
	(e)	Cost of labour & transportation Sub-total (c&d)			42998.85
	(f)	Overhead charges on (c) & (d) above @10%			4299.89
	(g)	Total (a+b+c+d+f)			328040.01
		Expenditure to be recovered			328040.01
		Expenditure to be recovered per metre			328.04
		Rounded to `			329.00
		(Rupees Three hundred and twenty nine per metre only)			

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Construction of 1Km LT Single Phase 2 Wire line

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	28	8m PSC pole	2974.40	Nos.	83283.20
4	35	2 line Xarm	231.00	Nos.	8085.00
5	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	2502.50
6	28	LT Shackles set	66.00	Nos.	1848.00
7	42	LT Pin insulator set	57.00	set	2394.00
8	42	Packing clamp for pin insulator	28.60	No	1201.20
9	15	Bolt and Nuts of size	90.00	kg	1350.00
10	28	LT stay set	732.60	set	20512.80
11	2100	ACSR Rabbit	38.05	m	79898.28
12	4	Clamp for 2 Nos. strut	152.88	Nos	611.52
13	2	LT Lightning Arrestor	407.00	Nos.	814.00
14	6	Earthing complete	693.12	Nos.	4158.72
15	LS	Provision for sectionalising	1789.52	Ls	1789.52
16	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			209128.74
	(b)	Centage charges @16%			33460.60
		Expenditure on materials (Sub-total)			242589.34
	(c)	Cost of labour			81448.75
	(d)	Cost of transportation			18832.96
	(e)	Cost of labour & transportation Sub-total (c&d)			100281.71
	(f)	Overhead charges on (c) & (d) above @10%			10028.17
	(g)	Total (a+b+c+d+f)			352899.21
		Expenditure to be recovered			352899.21
		Expenditure to be recovered per metre			352.90
		Rounded to `			353.00
		(Rupees Three hundred and Fifty three per metre only)			

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Construction of 1 Km of LT Single Phase 3 Wire line

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	28	8m PSC Pole	2974.40	Nos.	83283.20
2	35	4 line Xarm	501.60	Nos.	17556.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	2502.50
4	42	LT Shackles set	66.00	Nos.	2772.00
5	63	LT Pin insulator set	57.00	set	3591.00
6	63	Packing clamp for pin insulator	28.60	No	1801.80
7	20	Bolt and Nuts of size	90.00	Kg	1800.00
8	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
9	28	Stay set complete	732.60	set	20512.80
10	3150	ACSR Rabbit	38.05	m	119847.42
11	2	LT Lightning Arrestor	407.00	Nos.	814.00
12	6	Earthing complete	693.12	Nos.	4158.72
13	LS	Provision for sectionalising	1789.52	Ls	1789.52
14	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			261755.76
	(b)	Centage charges @16%			41880.92
		Expenditure on materials (Sub-total)			303636.68
	(c)	Cost of labour			81649.54
	(d)	Cost of transportation			19244.51
	(e)	Cost of labour & transportation Sub-total (c&d)			100894.06
	(f)	Overhead charges on (c) & (d) above @10%			10089.41
	(g)	Total (a+b+c+d+f)			414620.14
		Expenditure to be recovered			414620.14
		Expenditure to be recovered per metre			414.62
		Rounded to `			415.00
(Rupees Four hundred and fifteen per metre only)					

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Construction of 1Km of LT Three Phase 4 Wire line

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	28	8m PSC pole	2974.40	Nos.	83283.20
2	35	4 line Xarm	501.60	Nos.	17556.00
3	35	Clamp G.I for LT cross arm (2/4 line)	71.50	Nos.	2502.50
4	56	LT Shackles set	66.00	Nos.	3696.00
5	84	LT Pin insulator set	57.00	set	4788.00
6	84	Packing clamp for pin insulator	28.60	No	2402.40
7	20	Bolt and Nuts of size	90.00	kg	1800.00
8	28	Stay set	732.60	set	20512.80
9	4200	ACSR Rabbit	38.05	m	159796.56
10	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
11	6	LT Lightning Arrestor	407.00	Nos.	2442.00
12	6	Earthing complete	693.12	Nos.	4158.72
13	LS	Provision for sectionalising	1789.52	Ls	1789.52
14	LS	Provision for helically formed fitting	7896.00	Ls	7896.10
15	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			313950.59
	(b)	Centage charges @16%			50232.09
		Expenditure on materials (Sub-total)			364182.69
	(c)	Cost of labour			86450.55
	(d)	Cost of transportation			19659.04
	(e)	Cost of labour & transportation Sub-total (c&d)			106109.59
	(f)	Overhead charges on (c) & (d) above @10%			10610.96
	(g)	Total (a+b+c+d+f)			480903.24
		Expenditure to be recovered			480903.24
		Expenditure to be recovered per metre			480.90
		Rounded to `			481.00
		(Rupees Four hundred and eighty one per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Construction of 1Km of LT Three Phase 5 Wire line

Sl No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	28	8m PSC Pole	2974.40	Nos.	83283.20
2	35	4 line Xarm	501.60	Nos.	17556.00
3	70	Clamp G.I for LT Cross Arm (2/4 line)	71.50	Nos.	5005.00
4	35	2 line Xarm	231.00	Nos.	8085.00
5	70	LT Shackles set	66.00	Nos.	4620.00
6	105	LT Pin insulator set	57.00	set	5985.00
7	105	Packing Clamp for Pin insulator	28.60	No	3003.00
8	30	Bolt and Nuts of size	90.00	kg	2700.00
9	28	Stay set complete	733.26	set	20531.28
10	5250	ACSR Rabbit	38.05	m	199745.70
11	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
12	6	LT Lightning Arrestor	407.00	Nos.	2442.00
13	6	Earthing complete	693.12	Nos.	4158.72
14	LS	Provision for sectionalising	1789.52	Ls	1789.52
15	20	Composite LT spacers	34.00	Nos.	680.00
	(a)	Cost of materials (sub-total)			360231.22
	(b)	Centage charges @16%			57636.99
		Expenditure on materials (Sub-total)			417868.21
	(c)	Cost of labour			94481.66
	(d)	Cost of transportation			20073.57
	(e)	Cost of labour & transportation Sub-total (c&d)			114555.24
	(f)	Overhead charges on (c) & (d) above @10%			11455.52
	(g)	Total (a+b+c+d+f)			543878.97
		Expenditure to be recovered			543878.97
		Expenditure to be recovered per metre			543.88
		Rounded to `			544.00
		(Rupees Five hundred and forty four per metre only)			

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

Construction of 1Km of 11KV line using ACSR Rabbit (with out tree cutting compensation)

Sl No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	9m PSC Pole	4517.70	Nos.	108424.80
2	16	V cross arm	715.00	Nos.	11440.00
3	16	Clamp G.I for V Cross Arm	172.50	Nos.	2760.00
4	27	MS Cleat	81.40	Nos.	2197.80
5	90	Washers of sizes	6.25	Nos.	562.50
6	50	Bolt and Nuts of size	90.00	kg	4500.00
7	21	Stay set complete	850.00	set	17850.00
8	3150	ACSR Rabbit	38.05	m	119847.42
9	125	Angles and channels	84.70	kg	10587.50
10	48	Tension set with single disc	602.80	set	28934.40
11	16	Provision for coil earthing	595.02	Nos.	9520.32
12	48	11 KV Pin insulator set	138.00	Nos.	6624.00
13	16	Pole top bracket	113.00	Nos.	1808.00
14	8	Provision for pipe earthing	3305.68	set	26445.44
	(a)	Cost of materials (sub-total)			352046.18
	(b)	Centage charges @16%			56327.39
		Expenditure on materials (Sub-total)			408373.57
	(c)	Cost of labour			162623.10
	(d)	Cost of transportation			21788.96
	(e)	Cost of labour & transportation Sub-total (c&d)			184412.06
	(f)	Overhead charges on (c) & (d) above @10%			18441.21
	(g)	Total (a+b+c+d+f)			611226.83
		Expenditure to be recovered			611226.83
		Expenditure to be recovered per metre			611.23
		Rounded to `			612.00
(Rupees Six hundred and twelve per metre only)					

*1.Amount for PTCC Clearance,if any shall be collected extra.

2.Tree cutting compensation based on actual expenditure shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

Construction of 1Km of 11KV line using ACSR Racocon (with out tree cutting compensation) using 24 no of poles and 21nos of stays

Sl No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	9m PSC pole	4517.70	Nos.	108424.80
2	16	V cross arm	715.00	Nos.	11440.00
3	16	Clamp G.I for V Cross Arm	165.00	Nos.	2640.00
4	27	MS Cleat	81.40	Nos.	2197.80
5	90	Washers of sizes	6.25	Nos.	562.50
6	50	Bolt and Nuts of size	90.00	Kg	4500.00
7	21	Stay set complete	850.00	set	17850.00
8	3150	ACSR Raccoon	49.00	m	154350.00
9	125	Angles and channels	84.70	Kg	10587.50
10	48	Tension set with single disc	602.80	set	28934.40
11	16	Provision for coil earthing	595.02	Nos.	9520.32
12	48	11 KV Pin insulator set	138.00	Nos.	6624.00
13	16	Pole top bracket	113.00	Nos.	1808.00
14	8	Provision for pipe earthing	3305.68	set	26445.44
	(a)	Cost of materials (sub-total)			385884.76
	(b)	Centage charges @16%			61741.56
		Expenditure on materials (Sub-total)			447626.32
	(c)	Cost of labour			166193.66
	(d)	Cost of transportation			21788.96
	(e)	Cost of labour & transportation Sub-total (c&d)			187982.62
	(f)	Overhead charges on (c) & (d) above @10%			18798.26
	(g)	Total (a+b+c+d+f)			654407.20
		Expenditure to be recovered			654407.20
		Expenditure to be recovered per metre			654.41
		Rounded to `			655.00
(Rupees Six hundred and fifty five per metre only)					

*1.Amount for PTCC Clearance,if any shall be collected extra.

2.Tree cutting compensation based on actual expenditure shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Laying 1KM of HT XLPE UG Cable (3x300 mm² single run)

Sl No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1.05	3x300 sq.mm XLPE UG Cable	1008102.7	km	1058507.84
2	3	3x300 Sq mm XLPE end termination kit	2568.5	No	7705.50
3	2	3x300 sq. mm XLPE st. joint kit	5243.7	No	10487.40
	(a)	Cost of materials (sub-total)			1076700.74
	(b)	Centage charges @16%			172272.12
		Expenditure on materials (Sub-total)			1248972.85
	(c)	Cost of labour			560541.30
	(d)	Cost of transportation			12604.64
	(e)	Cost of labour & transportation Sub-total (c&d)			573145.94
	(f)	Overhead charges on (c) & (d) above @10%			57314.59
	(g)	Total (a+b+c+d+f)			1879433.38
		Expenditure to be recovered			1879433.38
		Expenditure to be recovered per metre			1879.43
		Rounded to			1880.00
(Rupees One thousand eight hundred and eighty per metre only)					
*Road cutting, restoration, PTCC clearance and other charges extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED
for the financial year 2018-19

Construction of 1 Km of 11KV line using ACSR Raccoon with A Pole (with out tree cutting compensation)

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	24	A pole -10m	14723.50	Nos.	353364.00
2	16	V cross arm	715.00	Nos.	11440.00
3	16	Clamp G.I for V Cross Arm	165.00	Nos.	2640.00
4	27	MS Cleat	81.40	Nos.	2197.80
5	90	Washers of sizes	6.50	Nos.	585.00
6	50	Bolt and Nuts of size	90.00	kg	4500.00
7	21	Stay set complete	850.00	set	17850.00
8	3150	ACSR Raccoon	49.00	m	154350.00
9	125	Angles and channels	84.70	kg	10587.50
10	48	Tension set with single disc	602.80	set	28934.40
11	16	Provision for coil earthing	595.02	Nos.	9520.32
12	48	11 KV pin insulator set	138.00	Nos.	6624.00
13	16	Pole top bracket	113.00	Nos.	1808.00
14	8	Provision for pipe earthing	3305.68	set	26445.44
	(a)	Cost of materials (sub-total)			630846.46
	(b)	Centage charges @16%			100935.43
		Expenditure on materials (Sub-total)			731781.89
	(c)	Cost of labour			189389.46
	(d)	Cost of transportation			28663.15
	(e)	Cost of labour & transportation Sub-total (c&d)			218052.61
	(f)	Overhead charges on (c) & (d) above @10%			21805.26
	(g)	Total (a+b+c+d+f)			971639.76
		Expenditure to be recovered			971639.76
		Expenditure to be recovered per metre			971.64
		Rounded to `			972.00
(Rupees Nine hundred and seventy two per metre only)					

*1.Amount for PTCC Clearance,if any shall be collected extra.

2.Tree cutting compensation based on actual expenditure shall be collected extra.

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Installation of 1 No. 11 KV/ 433 V , 100 KVA Transformer without stay (pole mounted)

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	100 KVA Transformer	155376.10	E	155376.10
2	2	9m PSCpole	4517.70	E	9035.40
3	8	Channel cross arm 3M	1563.00	Nos.	12504.00
4	8	Clamp G.I for channel cross crm	102.30	Nos.	818.40
5	15	Bolts and Nuts of sizes	90.00	kg	1350.00
6	40	Washers of sizes	6.50	E	260.00
7	1	AB Switch 11 kV 400 A	11155.00	E	11155.00
8	3	D O Fuse unit	1248.00	E	3744.00
9	3	11 KV LT Lightning Arrestor	474.50	E	1423.50
10	5	Provision for earthing	3305.68	E	16528.40
11	1	Provision for jumpering	1471.83	Ls	1471.83
12	1	Provision for clamping	571.20	Ls	534.38
13	6	Fuse unit 200A	874.50	E	5247.00
14	1	Distribution box	24200.00	E	24200.00
15	1	SMC DTR Box	3319.00	E	3319.00
16	4	LTCT 415V,15VA,class 0.5, 200/5A	657.00	E	2628.00
17	1	DTR meter	2162.60	E	2162.60
18	2	Statutory boards	13.20	E	26.40
19	5	2 line X arm	231.00	E	1155.00
20	4	Clamp G.I for LT cross arm (2/4 line)	71.50	E	286.00
21	1	Lock and key	143.00	E	143.00
22	80	LT XLPE Al 1X95 sq mm unarmoured cable	92.40	m	7392.00
23	25	Al socket 95 sq mm	12.01	E	300.30
24	28.8	Provision for fencing	1713.00	sq.m	49334.40
	(a)	Cost of materials (sub-total)			310394.71
	(b)	Centage charges @16%			49663.15
		Expenditure on materials (Sub-total)			360057.86
	(c)	Cost of labour			28730.24
	(d)	Cost of transportation			5482.66
	(e)	Cost of labour & transportation Sub-total (c&d)			34212.90
	(f)	Overhead charges on (c) & (d) above @10%			3421.29
	(g)	Total (a+b+c+d+f)			397692.06
		Expenditure to be recovered			397692.06
		Rounded to `			397700.00
(Rupees Three lakhs ninety seven thousand and seven hundred only)					
* Amount if any for PTCC Clearance shall be collected extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Installation of 1 No. 11 KV/ 433 V , 160 KVA Transformer without stay

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	160 KVA transformer	216963.00	E	216963.00
2	2	9M PSC pole	4517.70	E	9035.40
3	1	Constructing plinth	38978.96	E	38978.96
4	6	Channel cross arm 3M	1563.00	E	9378.00
5	6	Clamp G.I for channel cross arm	102.30	E	613.80
6	15	Bolts and Nuts of size	90.00	kg	1350.00
7	40	Washers of sizes	6.50	E	260.00
8	1	AB switch	11155.00	E	11155.00
9	3	D O Fuse unit	1248.00	E	3744.00
10	3	11 KV LT Lightning Arrestor	474.50	E	1423.50
11	5	Provision for earthing	3305.68	E	16528.40
12	1	Provision for jumpering	1471.83	Ls	1471.83
13	1	Provision for clamping	571.20	Ls	571.20
14	9	Fuse unit 200A	922.00	E	8298.00
15	1	Distribution Box	24200.00	E	24200.00
16	1	SMC DTR Box	3319.00	E	3319.00
17	4	LTCT 415V,15VA,class 0.5, 300/5A	657.00	E	2628.00
18	1	DTR meter	2162.60	E	2162.60
19	2	Statutory Boards	13.20	E	26.40
20	4	2 line X arm	231.00	E	924.00
21	4	G.I clamp for LT cross arm (2/4 line)	71.50	E	286.00
22	1	Lock and key	150.00	E	150.00
23	120	LT XLPE AL 1X120 sq mm unarmoured cable	96.80	m	11616.00
24	34	Al socket 120 sq mm	17.00	E	578.00
25	28.8	Provision for fencing	1713.00	sq.m	49334.40
	(a)	Cost of materials (sub-total)			414995.49
	(b)	Centage charges @16%			66399.28
		Expenditure on materials (Sub-total)			481394.77
	(c)	Cost of labour			28883.86
	(d)	Cost of transportation			5482.66
	(e)	Cost of labour & transportation Sub-total (c&d)			34366.52
	(f)	Overhead charges on (c) & (d) above @10%			3436.65
	(g)	Total (a+b+c+d+f)			519197.94
		Expenditure to be recovered			519197.94
		Rounded to `			519200.00
(Rupees Five lakh nineteen thousand and two hundred only)					
* Amount if any for PTCC Clearance shall be collected extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

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Installation of 11KV/433V 250 KVA Transformer without stay

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	250 KVA transformer	260843.00	E	260843.00
2	2	9M PSC pole	4517.70	E	9035.40
3	1	Constructing plinth	38978.96	E	38978.96
4	6	Channel cross arm 3m	1563.00	E	9378.00
5	6	Clamp G.I for channel cross arm	102.30	E	613.80
6	15	Bolt and Nut of size	90.00	kg	1350.00
7	40	washers of sizes	6.50	E	260.00
8	1	AB switch	11155.00	E	11155.00
9	3	D O Fuse unit	1248.00	E	3744.00
10	3	11 KV Lightning Arrestor	474.50	E	1423.50
11	5	Provision for earthing	3305.68	E	16528.40
12	1	Provision for jumpering	1471.83	Ls	1471.83
13	1	Provision for clamping	571.20	Ls	571.20
14	9	Fuse unit 300A	987.00	E	8883.00
15	1	Distribution box	24200.00	E	24200.00
16	1	SMC DTR Box	3319.00	E	3319.00
17	4	LTCT 415V, 15VA, class 0.5, 400/5A	708.00	E	2832.00
18	1	DTR meter	2162.60	E	2162.60
19	2	Statutory boards	13.20	E	26.40
20	4	2 line X arm	231.00	E	924.00
21	4	Clamp G.I for LT cross arm (2/4 line)	71.50	E	286.00
22	1	Lock and key	150.00	E	150.00
23	120	1100 V XLPE AL 1x185 sq.mm cable	136.40	m	16368.00
24	34	Al Socket 185 sq mm	29.22	E	993.34
25	28.8	Provision for fencing	1713.00	sq.m	49334.40
	(a)	Cost of materials (sub-total)			464831.83
	(b)	Centage charges @16%			74373.09
		Expenditure on materials (Sub-total)			539204.93
	(c)	Cost of labour			32818.27
	(d)	Cost of transportation			6713.11
	(e)	Cost of labour & transportation Sub-total (c&d)			39531.38
	(f)	Overhead charges on (c) & (d) above @10%			3953.14
	(g)	Total (a+b+c+d+f)			582689.44
		Expenditure to be recovered			582689.44
		Rounded to `			582690.00
		(Rupees Five lakh and eighty two thousand six hundred and ninety only)			
*Amount if any for PTCC Clearance shall be collected extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

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Installation of 11KV/433V 315 KVA Transformer without stay

SI No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	315 KVA transformer	398433.20	E	398433.20
2	2	9M PSC pole	4517.70	E	9035.40
3	1	Constructing plinth	38978.96	E	38978.96
4	6	Channel cross arm 3m	1563.00	E	9378.00
5	6	Clamp G.I for channel cross arm	102.30	E	613.80
6	15	Bolt and Nut of size	90.00	kg	1350.00
7	40	washers of sizes	6.50	E	260.00
8	1	AB switch	11155.00	E	11155.00
9	3	D O Fuse unit	1248.00	E	3744.00
10	3	11 KV Lightning Arrestor	474.50	E	1423.50
11	5	Provision for earthing	3305.68	E	16528.40
12	1	Provision for jumpering	1471.83	Ls	1471.83
13	1	Provision for clamping	571.20	Ls	571.20
14	9	Fuse unit 300A	987.00	E	8883.00
15	1	Distribution box	24200.00	E	24200.00
16	1	SMC DTR Box	3319.00	E	3319.00
17	4	LTCT 415V,15VA,class 0.5, 400/5A	708.00	E	2832.00
18	1	DTR meter	2162.60	E	2162.60
19	2	Statutory boards	13.20	E	26.40
20	4	2 line X arm	231.00	E	924.00
21	4	Clamp G.I for LT cross arm (2/4 line)	71.50	E	286.00
22	1	Lock and key	150.00	E	150.00
23	120	1100 V XLPE AL 1x240 sq.mm cable	262.90	m	31548.00
24	34	Al Socket 240 sq mm	49.28	E	1675.52
25	28.8	Provision for fencing	1713.00	sq.m	49334.40
	(a)	Cost of materials (sub-total)			618284.21
	(b)	Centage charges @16%			98925.47
		Expenditure on materials (Sub-total)			717209.68
	(c)	Cost of labour			33202.59
	(d)	Cost of transportation			6713.11
	(e)	Cost of labour & transportation Sub-total (c&d)			39915.70
	(f)	Overhead charges on (c) & (d) above @10%			3991.57
	(g)	Total (a+b+c+d+f)			761116.95
		Expenditure to be recovered			761116.95
		Rounded to `			761120.00
		(Rupees Seven lakh sixty one thousand one hundred and twenty only)			
*Amount if any for PTCC Clearance shall be collected extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED

for the financial year 2018-19

Installation of 1 No.11 KV/ 433 V , 500 KVA, Transformer

Sl. No.	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	500 KVA Transformer	536023	E	536023.40
2	2	9M PSC Pole	4517.70	E	9035.40
3	1	Construction of Plinth	38978.96	E	38978.96
4	6	Channel cross arm 3M	1563.00	E	9378.00
5	6	Clamp G.I for channel cross arm	102.30	E	613.80
6	15	Bolt & Nut of sizes	90.00	kg	1350.00
7	40	Washers of sizes	6.50	E	260.00
8	1	11 kV AB Switch	11155.00	E	11155.00
9	3	D. O. Fuse unit	1248.00	E	3744.00
10	3	11 kV Lightning Arrestor	474.50	E	1423.50
11	5	Provision for earthing	3305.68	E	16528.40
12	1	Provision for jumpering	1471.83	Ls	1471.83
13	1	Provision for blamping	571.20	Ls	571.20
14	12	Fuse unit 300 A	987.00	E	11844.00
15	1	Distribution box	24200.00	E	24200.00
16	1	SMC DTR Box	3319.00	E	3319.00
17	4	LTCT 415V, 15VA, class 0.5, 800/5A	708.00	E	2832.00
18	1	DTR meter	2162.60	E	2162.60
19	2	Statutory boards	13.20	E	26.40
20	4	2 line X arm	231.00	E	924.00
21	4	Clamp G.I for LT Cross Arm (2/4 line)	71.50	E	286.00
22	1	Lock & Key	150.00	E	150.00
23	120	LT XLPE Al 1X240 sq mm, unarmoured cable	262.90	m	31548.00
24	43	Al Socket 240 sq mm	49.28	E	2119.04
25	28.8	Provision for fencing	1713.00	sq.m	49334.40
	(a)	Cost of materials (sub-total)			759278.93
	(b)	Centage charges @16%			121484.63
		Expenditure on materials (Sub-total)			880763.56
	(c)	Cost of labour			33586.92
	(d)	Cost of transportation			6713.11
	(e)	Cost of labour & transportation Sub-total (c&d)			40300.03
	(f)	Overhead charges on (c) & (d) above @10%			4030.00
	(g)	Total (a+b+c+d+f)			925093.59
		Expenditure to be recovered			925093.59
		Rounded to `			925100.00
(Rupees Nine lakh twenty five thousand one hundred only)					
*Amount if any for PTCC Clearance shall be collected extra.					

KERALA STATE ELECTRICITY REGULATORY COMMISSION						
Cost Data of Distribution works approved by the Commission for TCED for the financial year 2018-19						
Installation of Data Acquisition compatible Extensible type Ring Main Unit without VCB -CCC (E) (Cable -Cable -Cable)						
SI No.	Qty.	Particulars	Rate (Rs)	Unit	Amount(Rs)	
1	(a)	1	Cost of 11 KV DA Compatible outdoor extensible type RMU with 3 load break switches	294,070.70	E	294,070.70
	(b)	2	Cost of providing earthing	3,305.68	M	6,611.36
	(a)		Cost of materials (sub-total)			300682.06
	(b)		Centage charges @16%of cost of materials			48109.13
			Expenditure on materials (Sub-total)			348791.19
	(c)		Cost of Labour			13172.00
	(d)		Cost of transportation			7750.08
	(e)		Cost of construction of foundation			76075.68
			Cost of Labour & transportation Sub-total (c,d & e)			96997.76
	(f)		Overhead charges on cost of labour & transportation@10%			9699.78
	(g)		Total (a+b+c+d+e+f)			455488.73
			Expenditure to be recovered (Grand Total)			455488.73
			Rounded to `			455490.00
(Rupees Four lakh fifty five thousand three hundred and ten only)						

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works approved by the Commission for TCED for the financial year 2018-19

Installation of Data Acquisition compatible Extensible type Ring Main Unit with VCB -CTC (E) (Cable -Transformer -Cable)

SI No.	Qty.	Particulars	Rate (Rs)	Unit	Amount(Rs)
1	(a)	1 No. Cost of 11 KV DA Compatible outdoor extensible type RMU with 2 load break switches	354,762.10	E	354,762.10
	(b)	2 Nos. Cost of providing earthing	3,305.68	M	6,611.36
	(a)	Cost of materials (sub-total)			361373.46
	(b)	Centage charges @16%of cost of materials			57819.75
		Expenditure on materials (Sub-total)			419193.21
	(c)	Cost of Labour			7053.70
	(d)	Cost of transportation			7750.08
	(e)	Cost of construction of foundation,handling,erection,conveyance and allignment			76075.68
		Cost of Labour & transportation Sub-total (c,d & e)			90879.46
	(f)	Overhead charges on cost of labour & transportation@10%			9087.95
	(g)	Total (a+b+c+d+e+f)			519160.62
		Expenditure to be recovered (Grand Total)			519160.62
		Rounded to `			519160.00
(Rupees Five lakh nineteen thousand one hundred and sixty only)					

KERALA STATE ELECTRICITY REGULATORY COMMISSION						
Cost Data of Distribution works approved by the Commission for TCED for the financial year 2018-19						
Installation of Data Acquisition compatible Extensible add-on type Ring Main Unit without VCB (Single Switch C-Extension)						
SI No.	Qty.	Particulars	Rate (Rs)	Unit	Amount(Rs)	
	(a)	1 No.	Cost of RMU extensible on both sides with motors for remote switching and DA Compatible	196,768.00	E	196,768.00
1	(b)	1 No.	Cost of bus bars, bolts/nuts, jointing solvents, covering materials, sleeves etc. for connecting the add on unit	25,000.00	M	25,000.00
	(c)	1 No.	Provision for earthing	3,305.68	E	3,305.68
	(a)		Cost of materials (sub-total)			225073.68
	(b)		Centage charges @16%of cost of materials			36011.79
			Expenditure on materials (Sub-total)			261085.47
	(c)		Cost of Labour			16465.00
	(d)		Cost of transportation			7750.08
	(e)		Cost of construction of foundation,fencing and yard metalling			76075.68
			Cost of Labour & transportation Sub-total (c,d, e & f)			100290.76
	(g)		Overhead charges on cost of labour & transportation@10%			10029.08
	(h)		Total (a+b+c+d+e+f+g)			371405.31
			Expenditure to be recovered (Grand Total)			371405.31
			Rounded to			371410.00
(Rupees Three lakh seventy one thousand four hundred and ten only)						

KERALA STATE ELECTRICITY REGULATORY COMMISSION						
Cost Data of Distribution works approved by the Commission for TCED for the financial year 2018-19						
Installation of Data Acquisition compatible, Extensible, add-on type Ring Main Unit with VCB (Single Switch T-Extension)						
SI No.	Qty.	Particulars	Rate (Rs)	Unit	Amount(Rs)	
	(a)	1 No.	Cost of RMU extensible on both sides with motors for remote switching and DA Compatible	265,408.00	E	265,408.00
1	(b)	1 Nos.	Cost of bus bars, bolts/nuts, jointing solvents, covering materials, sleeves etc. for connecting the add on unit	25,000.00	Set	25,000.00
	(c)	1 No.	Provision for earthing	3,305.68	E	3,305.68
	(a)		Cost of materials (sub-total)			293713.68
	(b)		Centage charges @16%of cost of materials			46994.19
			Expenditure on materials (Sub-total)			340707.87
	(c)		Cost of Labour			16465.10
	(d)		Cost of transportation			7750.08
	(e)		Cost of construction of foundation,handling,erection,conveyance and allignment			76075.68
			Cost of Labour & transportation Sub-total (c,d.e&f)			100290.86
	(g)		Overhead charges on cost of labour & transportation@10%			10029.09
	(h)		Total (a+b+c+d+e+f+g)			451027.82
			Expenditure to be recovered (Grand Total)			451027.82
			Rounded to Rs.			451000.00
			(Rupees Four lakh fifty one thousand only)			