

**KERALA STATE ELECTRICITY REGULATORY COMMISSION
THIRUVANANTHAPURAM**

PRESENT: Sri.T.M. Manoharan, Chairman
Sri. K.Vikraman Nair, Member

OP No. 14/2013

In the matter of approval of cost data applicable to Thrissur Municipal Corporation, for the purpose of recovery of expenditure under Section 46 of the Electricity Act, 2003.

Petitioner : Secretary,
Thrissur Municipal Corporation,
Thrissur 680 001.

Order dated 06.08.2015

Introduction

1. Thrissur Municipal Corporation is the distribution licensee in the area of erstwhile Thrissur Municipality, which now forms part of Thrissur Municipal Corporation area. The Electricity Department of Thrissur Municipal Corporation (TCED) is managing the activities relating to the distribution of electricity. Prior to formation of Thrissur Municipal Corporation, it was Thrissur Municipality and the Thrissur Municipality had been continuing as the distribution licensee responsible for supply of electricity to the consumers within the Thrissur Municipality area. The distribution of electricity by the Thrissur Municipality was confined to the Thrissur Municipality area. The distribution of electricity in the surrounding grama panchayat was being done by Kerala State Electricity Board. When Thrissur Municipality was upgraded to Thrissur Municipal Corporation, portion of areas under various grama panchayats around the municipality were added to the corporation area. Though such portions of erstwhile grama panchayats are now in Thrissur Corporation area, the distribution of electricity in such areas is being undertaken by Kerala State Electricity Board, as was being done prior to the formation of Thrissur Municipal Corporation. Thus, at present, there are two distribution licensees in Thrissur Municipal Corporation area, namely Thrissur Municipal Corporation in the erstwhile Thrissur Municipality areas and Kerala State Electricity Board in the erstwhile grama panchayat areas which are added to the Municipal Corporation area.

2. Thrissur Municipal Corporation Electricity Department, hereinafter referred to as TCED, had, vide their letter No.E7 / 6503/11 dated 06.11.2012, submitted an initial proposal for the approval of cost data for the purpose of recovery of expenditure under Section 46 of the Electricity Act, 2003. TCED had also remitted a fee of Rs.1,00,000/- (Rupees one lakh only) by demand draft No.514221 dated 05.11.2012 of the State Bank of Travancore. As per letter No. 2066/C. Engg/OP/2012/KSERC dated 07.01.2013, the Commission had called for additional information and clarifications from TCED. As per letter No. E7/6503/11 dated 23.01.2013, TCED informed that the details called for would be submitted in due course. Later, in letter dated 30.01.2013, TCED informed that KSEB, vide B.O (FM)GENL No.162/2013 dated 19.01.2013 had revised their cost data, based on the PWD Schedule of Rates 2012. TCED also stated as follows

“As TCED is functioning in the same manner of KSEB, we also wish to adopt their rates of various charges”

Therefore the Commission was requested not to pass any order on their proposal dated 06.11.2012. It was also informed that revised proposal would be submitted soon.

3. In letter No. E7.6503/11 dated 09.07.2013, the TCED submitted its revised proposal for the approval of cost data. It was also requested that the fee remitted for their application dated 06.11.2012 might be treated as fee for this application.
4. While the proposal dated 09.07.2013 was under consideration of the Commission, the cost data applicable to KSEB was again revised by the Commission as per its order dated 28.02.2014 in OP No.30/2013. The Commission as per letter No. 560/C. Eng/ER/2013/KSERC dated 05.03.2014 forwarded a copy of the said order with all annexures to TCED with request to communicate whether or not the cost data approved for KSEB as per the order dated 28.02.2014 was acceptable to them. It was also requested to submit fresh proposal for approval of cost data, if the rates approved as per order of the Commission dated 28.02.2014 were not acceptable to them. This was followed up by the Commission through a reminder dated 23.04.2014.
5. In letter No. E7.6503/11 dated 7.4.2014 the Assistant Secretary, TCED requested for enlargement of time up to 10.5.2014 to submit cost data for approval and for permission to recover expenditure from consumers in accordance with the estimate rates, prevalent at that time. The said letter was received in the Commission, on 22.04.2014. As per letter dated 7.05.2014, the Asst. Secretary Thrissur Municipal Corporation informed the Commission that, the cost data approved by the Commission for Kerala State Electricity Board was not acceptable to Thrissur Municipal Corporation, in view of the difference in price of various materials. Asst. Secretary, Thrissur Municipal Corporation did also request for a further period of 30 days for submitting fresh proposals. As per letter

dated 4.6.2014, the Commission granted the enlargement of time, requested for by Thrissur Municipal Corporation

6. As per letter dated 25.06.2014, Thrissur Municipal Corporation submitted fresh proposal for approval of cost data. It was also requested that the fee remitted as per SBT Demand draft No. 514221 dated 5.11.2012 for the previous petition might be adjusted towards fee for this petition.

Proceedings of the Commission and public hearing

7. The application filed by TCED on 09.11.2012 was admitted as OP No. 14/2013. After correspondence as detailed in previous paragraphs, the Commission accepted the fresh proposal dated 25.06.2014 submitted by TCED as a continuation of OP No.14/2013. This was communicated to TCED as per letter No.1828/C. Eng/TCED/2012/KSERC dated 25.07.2014 of the Commission.
8. It was also noticed that the variations in proposals from the cost data approved for Kerala State Electricity Board Ltd were due to;
 - (i) Difference in the rate of materials
 - (ii) Change in materials
 - (iii) Variation in quantity of materials
9. A public hearing on the said application for approval of cost data was conducted on 11.11.2014 in the Conference Hall at Chamber of Commerce Building, Thrissur. Originally the public hearing was proposed to be conducted at the Conference Hall in Govt. Guest House (Ramanilayam) at Thrissur. Subsequently, due to non-availability of the conference hall at Government Guest House, the public hearing was shifted to Corporation Council Hall, Thrissur. The venue had to be again shifted to the conference hall at Chamber of Commerce Building, Thrissur. In the public hearing, only three persons from the public participated.
10. Shri. T.S. Jose, Electrical Engineer, TCED presented the details of cost data on behalf of the petitioner. As a preliminary observation the Commission pointed out the huge differences in the costs of various materials as indicated below;

Sl. No.	Items	Unit	Cost approved by the Commission for KSEB Ltd	Cost proposed by TCED
			Rs.	Rs.
1	G.I.Wire No. 12	Kg	59	82
2	PSC pole 7M		1741	
3	PSC pole 8M		2141	
4	PSC pole 9M		3353	
5	9M steel pole			7845
6	11M steel pole			9530

7	WP Wire 2.5 mm ² TC	M	5.25	8
8	WP Wire 6 mm ² TC	M	11	25
9	PVC 50 mm ² SC	M	32	71
10	PVC 95 mm ² SC	M	56	99
11	PVC 120 mm ² SC	M	70	125
12	Fuse Unit 32 A	E	69	80
13	Fuse Unit 100 A	E	360	390
14	2 line cross arm (2' x 3 1/2" x-arm)	set	251	585
15	4 line cross arm (4' x 3 1/2" x-arm)	set	492	900
16	Clamp with Bolt & Nut	set	96	363
17	LT Shackles Set	set	42	67
18	LT Pin Insulator Set	set	44	51
19	LT Stay Set	set	905	2022
20	ACSR Rabbit	M	39.32	40
21	ACSR Racoon	M	58.57	47
22	11kV AB switch	set	9884	12500
23	11 kV Pin Insulator	set	120	140
24	11 kV lightning arrester	set	306	450
25	100 kVA transformer	No.	121500	174800
26	160 kVA transformer	No	177000	215334
27	250 kVA transformer	No	206500	279355
28	315 kVA transformer	No	**	332322
24	500 kVA transformer	No	396174	424600

11. The Electrical Engineer, TCED explained that the difference was due to the high cost of tubular steel poles in place of PSC poles used by KSEB Limited. It was also submitted that TCED is using 9 meter and 11 meter steel poles for construction of distribution lines. Therefore it would not match if PSC poles are inserted. He also submitted that all the materials were purchased observing store purchase rules and that the higher cost proposed by TCED was due to the lesser quantity of materials purchased by them when compared to the quantities purchased by KSEB Limited.
12. All the participants who attended the public hearing representing the general public were of the view that the TCED shall not be allowed to recover from the consumers, the cost of works and materials at exorbitantly high rates.
13. After hearing TCED and the public, the Commission observed that it was not enough for the TCED authorities to invite 3 quotations or tenders and to award the purchase to the lowest tenderer. TCED should also ensure that the lowest rate quoted by the supplier is comparable to the market rate and the rates of purchase of same material by other distribution licensees. The purchasing officer

has got a moral and legal responsibility to purchase quality materials at minimum rates with a view to safeguarding the interest of the consumers.

14. The Commission also noticed that,-

- (i) the participation of the public was little, presumably due to lack of publicity and changes in venue of public hearing at short notice, and that
- (ii) In the absence of a public hearing without proper participation of the stakeholders, it would not be appropriate to take a final decision on the issue.

15. Therefore the Commission issued an interim order on 20.11.2014 as follows,-

- (1) The matter will be again placed for public hearing along with the public hearing on the ARR and ERC of TCED for the financial year 2015-16.
- (2) A final order can be issued on the proposals submitted by TCED only after such public hearing.
- (3) In the meanwhile, the TCED may be allowed to follow the cost data for the distribution works of KSEB Limited as approved by the Commission in its order dated 28.02.2014 in OP No. 30/2013.

16. In response to the interim order dated 20.11.2014, TCED, as per their letter dated 11.12.2014, informed the Commission as follows,-

- (i) *In the afore cited order Hon'ble KSERC has directed TCED to follow the cost data for the distribution works of KSEBL as approved by the Commission in its order dated 28.02.2014 in OP No.30/2013.*
- (ii) *As there exists a huge difference in the prices of KSEBL and the actual price of TCED for various items, preparing estimates and collecting amount as per KSEBL cost data will invite audit objections.*
- (iii) *Therefore, it is humbly prayed to give clarification on the order and the method in which the difference in price is to be booked.*
- (iv) *Further, it is humbly submitted that, the present purchase rates for many item are almost the same as that of TCED and the approved rate of KSEB is much lesser when compared to the actual purchase cost. If the Hon'ble Commission permits, the details in this regard will be submitted.*

17. In the letter dated 13.02.2015, TCED requested to allow it to present the petition on cost data again, in the public hearing dated 18.03.2015 on the application for approval of the ARR and ERC for 2015-16. As per letter dated 09.03.2015, the Commission informed TCED that the public hearing on cost data would also be held on 18.03.2015, TCED was also directed to give wide publicity in this regard, through newspapers and other media.

18. The next public hearing on the petition of TCED, for the approval of cost data for 2014-15 was held on 18-03-2015 at the Conference Hall, Government Guest

House, Thrissur, along with the public hearing on Aggregate Revenue Requirements of TCED. The following officers represented TCED:

- i. Adv. Nancy Akkarappatty, Chairperson, Standing Council, P & W, Thrissur Corporation
- ii. Shri. S.Jayakumar, Asst. Secretary, TCED
- iii. Shri. T.S.Jose, Ele. Engineer, TCED
- iv. Shri. M.G.Rajagopal, CGRF (member) and other officials of the Corporation.

Shri. C.S. Sarmakumar, Deputy Chief Engineer, Tariff and Regulatory Affairs Cell (TRAC) and Sri. S. Prasad, Assistant Executive Engineer, TRAC, represented K.S.E.B.Ltd. 20 persons attended the hearing representing general public.

19. In the introductory remarks, Chairman, KSERC pointed out that, though the petition was presented on 11-11-14 at Thrissur, Commission had not taken a final decision on the same, since the participation of the public in the said public hearing was not up to the mark. Moreover, the licensed area of the Thrissur Municipal Corporation is confined to the original Thrissur Municipality area and K.S.E.B.Ltd. is providing supply in the other parts of the Corporation. The rates proposed by the Corporation appeared to be exorbitantly high when compared to those approved for K.S.E.B.Ltd.
20. Shri. T.S.Jose, Electrical Engineer, TCED presented the case and submitted that the proposal was in line with the cost data approved for K.S.E.B.Ltd. for 2014-15. The higher rates were due to the higher purchase cost of materials, in relatively lesser quantity purchased by TCED, when compared to the quantity purchased by KSEB Ltd. Regarding the higher cost of poles, Shri. Jose submitted that out of about 8500 poles installed in the Corporation area, about 8300 poles are made of steel. It was also submitted that K.S.E.B.Ltd. is using 'A type' steel poles, for which approved rate was not communicated.
21. The major issues pointed out by the public during the public hearing are the following,-
 - (i) Publicity for the hearing was not sufficient.
 - (ii) The rates of purchase of materials by TCED were higher because such purchases were not from Public Sector Undertakings.
 - (iii) TCED was recovering expenditure from the consumer / applicant for connection under Section 46 of the Act at the rates proposed by them even without getting approval from the Commission.
 - (iv) The rates realized by KSEB Ltd in the erstwhile grama panchayats areas which are now in Thrissur Corporation area, are lower.
 - (v) TCED should not be allowed to recover higher rates for works in different parts of the Corporation.

- (vi) Tendering procedure of the Corporation is not in order and needs to be examined.
 - (vii) Corporation is not taking steps to recover huge accumulated electricity arrears of electricity charges from the consumers. It was also submitted that the Corporation should not be allowed any increase in charges to be levied from consumers without recovering the outstanding arrears and taking steps to curb theft of electricity.
 - (viii) The Corporation is purchasing transformers and cables at very high rates and recovering it from consumers, which should not be allowed by the Commission.
 - (ix) The licence for distribution of electricity may be transferred from TCED to K.S.E.B.Ltd., in case the TCED is not able to supply electricity and deliver other services at the rates approved by the Commission.
22. In the concluding remarks, Chairman pointed out that purchase of materials only based on the strength of supporting quotations may not stand the standards of prudence check, unless the rates are reasonable. It was also pointed out that recovery of expenditure for works by the licensee, under Section 46 of the Electricity Act, 2003, at the rates above those approved by the Commission shall attract penal provisions.

Analysis and decision

23. In view of the facts stated above, the scheme of law in the Electricity Act, 2003, relating to the recovery of expenditure from the consumer has to be examined. The only statutory provision in the Electricity Act, 2003, which permits recovery of expenditure from the consumer or from the applicant for electric connection is Section 46, which is quoted hereunder.

“46. Power to recover expenditure.- The State Commission may, by regulations, authorise a distribution licensee to charge from a person requiring a supply of electricity in pursuance of section 43 any expenses reasonably incurred in providing any electric line or electrical plant used for the purpose of giving that supply.”

24. The definitions of the terms ‘distribution system’, ‘electric line’, ‘electrical plant’, ‘main’ and ‘service line’ as given in clauses 19, 20, 22, 42 and 61 of Section 2 of the Electricity Act, 2003, are quoted hereunder.

“(19) “distribution system” means the system of wires and associated facilities between the delivery points on the transmission lines or the generating station connection and the point of connection to the installation of the consumers;”

(20) “electric line” means any line which is used for carrying electricity for any purpose and includes-

- (a) any support for any such line, that is to say, any structure, tower, pole or other thing in, on, by or from which any such line is, or may be, supported, carried or suspended; and
- (b) any apparatus connected to any such line for the purpose of carrying electricity;

(22) “electrical plant” means any plant, equipment, apparatus or appliance or any part thereof used for, or connected with, the generation, transmission, distribution or supply of electricity but does not include-

- (a) an electric lines; or
- (b) a meter used for ascertaining the quantity of electricity supplied to any premises; or
- (c) an electrical equipment, apparatus or appliance under the control of a consumer;

(42) “main” means any electric supply-line through which electricity is, or is intended to be supplied;”

(61) “service line” means any electric supply-line through which electricity is, or is intended to be, supplied-

- (a) to a single consumer either from a distributing main or immediately from the Distribution Licensee’s premises; or
- (b) from a distribution main to a group of consumers on the same premises or on contiguous premises supplied from the same point of the distributing main”

As per sub-section (1) of Section 43 of the Act ‘every distribution licensee shall on application by the owner or occupier of any premises, give supply of electricity to such premises, within one month after receipt of the application requiring supply. Sub-section (2) of Section 43 of the Act stipulates as follows,-

“(2) It shall be the duty of every distribution licensee to provide, if required, electric plant or electric line for giving electric supply to the premises specified in sub-section (1)”

Sub-section (3) of Section 43 of the Act stipulates that the distribution licensee shall be liable to penalty which may extent to Rs.1000/- for each day of default in case it fails to supply electricity within the period specified in sub-section (1)

25. From the above statutory provisions, it can easily be found that,

- (1) As per sub-section (1) of Section 42 of the Electricity Act, 2003, the distribution licensee is duty bound to develop and maintain the distribution system, up to and including the meter.

- (2) As per sub- section (1) of Section 43 of the Act, the distribution licensee has to give supply of electricity within one month after the receipt of application.
 - (3) As per sub-section (2) of Section 43 of the Act, the distribution licensee has the duty to provide electric lines and electrical plants required for giving electric supply to any premises.
 - (4) If only the Commission authorizes the distribution licensee by regulation, it can recover expenditure under Section 46 of the Act.
 - (5) The recovery of expenditure should be only at the rates approved by the Commission.
 - (6) The expenditure that can be recovered should be reasonable.
 - (7) The expenditure should have been actually incurred by the licensee.
 - (8) The expenditure should be for providing electric line or electrical plant required for giving supply of electricity to that particular consumer.
26. In view of the higher rates claimed by TCED in the cost data submitted by it, the Commission has examined the issues relating to the reasonableness of the expenditure. As already indicated, getting three quotations or tenders, and purchasing at the lowest rate quoted in the quotation / tender need not necessarily satisfy the test of reasonableness of expenditure. It may satisfy the requirements of Store Purchase Rules and audit. When other utilities are purchasing the same materials at much lower rates, there is no reason why TCED cannot purchase such materials at the rates equal to or less than the rates applicable to other utilities. In this context, it is most pertinent to note that, one of the paramount functions of the Commission is to protect consumer interest. It is for this purpose the Commission is given the powers of prudence check. It has been held by the Hon'ble APTEL and the Hon'ble Supreme Court that even audited accounts of licensees need be approved in prudence check while determining tariff. Expenditure need be admitted only after prudence check by the appropriate Commission. Therefore it is inevitable that the claims of TCED for recovery of expenditure under section 46 of the Act, are also subjected to prudence check by the Commission.
27. The claim of TCED that it has purchased the materials required for providing electric line and electrical plant at higher rates, when compared to the rates of purchase of such materials by Kerala State Electricity Board Limited, may be true. But there is a limit up to which such increase can be allowed in a prudence check by the Commission.
28. In the scheme for purchase of materials in Government and other Public Sector Undertakings, as per the Store Purchase Rules and the orders issued by the Government in this regard, there is a practice of giving price preference to the small scale industrial units functioning within the State. Such price preference is given subject to a maximum of 10%, considering the problems faced by the small

scale industrial units in the manufacture of goods, when compared to the manufacture done by the medium and large scale industrial units. This type of price preference is given only in the case of purchase from small scale industrial units. In majority of the purchases done by TCED, the purchase of materials required for the construction of electric lines and electrical plants is done from the medium or large scale industrial units only. But the quantities of materials purchased by TCED may be smaller when compared to the quantities purchased by KSEB Ltd. In this regard, it is also worthwhile to mention about a procedure or practice which was followed by TCED in the past. KSEB Ltd purchases materials required for the construction and maintenance of its distribution system, after due tender processes. The orders for supply of materials as per the award in the tender process are placed with the suppliers for delivery in the regional or sub regional stores of KSEB Ltd. TCED can also place orders with the same manufacturers at the same rates as an additional quantity, with the destination of delivery as the TCED stores. Such practice had been adopted in the past by TCED for ensuring supply of materials at competitive and lower rates. Considering all these facts, the maximum increase that can be allowed to TCED on the cost of materials purchased by it is only 10% over the rate of materials approved for KSEB Ltd.

29. In respect of transport and labour there cannot be a separate increased rate for TCED. KSEB Ltd does also undertake similar works all over the State, both in urban and rural areas. In the labour and industrial atmosphere prevalent in the State, there is no difference in the rates of labour in rural and urban areas, since the rates of labour are determined by Government in PWD and minimum wages are fixed by the Government in Labour Department. The rates for conveyance of materials are also fixed by the Government in PWD.
30. Further there cannot be any change in the quantity of materials used for construction of electric line and electrical plants. The specifications for safety and standards of electric lines and electrical plants are specified by Central Electricity Authority. The electric lines and electrical plants are inspected and approved by Electrical Inspectors / Chief Electrical Inspector in accordance with the regulations and powers delegated to them. The materials should also conform to the standards stipulated by Bureau of Indian Standards (BIS).
31. TCED has submitted that the higher rate is due to the fact that, it is using 8 meter and 9 meter tubular steel poles for the construction of lines. The comparative rates of 8 meter and 9 meter steel purchased by TCED and the rates of concrete poles purchased by KSEB Ltd are given hereunder,-

Particulars	Concrete pole of KSEB	Steel Pole of TCED
7 meter pole	Rs.1741/-	Nil
8 meter pole	Rs.2141/-	Nil
9 meter pole	Rs.3353/-	Rs.7845/-
11 meter pole	Nil	Rs.9530/-

TCED may, for its own reasons such as aesthetics, use steel poles. But such exorbitant cost of steel poles cannot be approved as a reasonable cost that can be recovered from the consumer or the applicant for supply of electricity under Section 46 of the Act. As already pointed out, it is the duty of the distribution licensee under sub-section (1) of Section 42 of the Act and under sub-section (1) of Section 43 of the Act to develop and maintain distribution system up to and including the meter.

32. In view of the above facts, it is decided as follows:

- (i) An increment at the rate of 10% over the rates of materials approved in the cost data for KSEB Ltd, will be allowed for TCED
- (ii) Rates of labour and conveyance (transport) will be the same as allowed while approving the cost data for KSEB Ltd.

33. The standard expenditure that can be recovered by TCED for various works under section 46 of the Electricity Act, 2003, are worked and approved accordingly as given in annexures 1 to 59.

Orders of the Commission

- (1) The TCED is authorized 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 59.
- (2) TCED shall not recover any amount at the rates higher than those approved by the Commission or any additional amount which is not authorized by the Commission.
- (3) The rates approved as per annexures 1 to 59 shall be in force till they are revised by the Commission.

Sd/-
K. Vikraman Nair
Member

Sd/-
T.M.Manoharan
Chairman

Approved for issue

SANTHOSH KUMAR.K.B
Secretary

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Abstract of Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

Annexure No.	Details	Approved rates
	SERVICE CONNECTION	Rupees
1	LT single phase weather proof service connection upto and including 5kW (Using Static meter with LCD facility)	2200
2	LT three phase weather proof service connection up to and including 10 KW (Using Static meter with LCD display and TOD facility)	4600
3	LT three phase weather proof service connection above 10kW upto and including 25kW (Using Static meter with LCD display and TOD facility)	11600
4	LT three phase weather proof service connection above 25kW & below 50kVA	18650
5	LT three phase weather proof service connection from 50kVA and above upto and including 100kVA.	21400
6	Providing support pole for weather proof service connection.	4250
7	LT single phase over head service connection upto and including 50m with maximum 1 post	12200
8	LT single phase over head service connection above 50 m upto and including 100 m with maximum 2 posts	20050
9	LT single phase over head service connection above 100m up to and including 150m with maximum 3 posts	27650
10	LT single phase over head service connection above 150m up to and including 200m with maximum 4 posts	35750
11	LT three phase over head service connection upto and including 50m with maximum 1 post	21250
12	LT three phase over head service connection above 50m upto and including 100m with maximum 2 posts	37900
13	LT three phase over head service connection above 100m up to and including 150m with maximum 3 posts	54150
14	LT three phase over head service connection above 150m up to and including 200m with maximum 4 posts	70600
15	Post insertion for LT single phase over head line (without stay)	6450
16	Post insertion for LT single phase over head line (with stay)	7950
17	Post insertion for LT single phase over head line (with strut)	10050
18	Post insertion for LT three phase over head line (without stay)	7150
19	Post insertion for LT three phase over head line (with stay)	8300
20	Post insertion for LT three phase over head line (with strut)	10750
21	Conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with connected load upto and including 10kW	3600
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	11750
23	Conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with load above 25 kW and below 50 kVA	17200
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	19750
25	Enhancement of connected load of LT three phase weather proof service connection with a maximum load of 10kW into the range of 10 kW - 25 kW.	11000
26	Enhancement of connected load of LT three phase weather proof service connection with a max. load of 10kW into the range of >25 kW and less than 50 kVA.	17950
27	Enhancement of connected load of LT three phase weather proof service connection with maximum load of 10kW into the range of 50 kVA - 100 kVA.	21400
28	Enhancement of connected load of LT three phase weather proof service connection with connected load >10 kW - 25 kW in to the range of >25 kW and less than 50 kVA.	17950

29	Enhancement of connected load of LT three phase weather proof service connection from the range of 10 kW - 25 kW into the range of 50 kVA – 100 kVA (excluding the rate of installation of transformer).	18300		
30	Enhancement of connected load of LT three phase weather proof service connection from the range of 25 kW to 50 kVA in to the range of 50 kVA – 100 kVA (excluding the rate of installation of transformer)	18300		
Shifting of meters				
31	Shifting one Single Phase metering equipment with all fittings.	433		
32	Shifting one Three Phase Metering equipment with all fittings .	570		
33	Shifting one Three Phase CT Metering equipment with all fittings .	997		
34	Shifting one Single Phase ToD Metering equipment with all fittings .	542		
35	Shifting one Three Phase ToD Metering equipment with all fittings .	1246		
DISTRIBUTION LINES				
36	Dismantling, shifting and re-erecting one LT Pole of Single Phase OH line using ACSR Rabbit (with or without stay)	2950		
37	Dismantling, shifting and re-erecting one LT pole of Three phase with OH lines using ACSR Rabbit (with or without stay)	3550		
38	Dismantling, shifting and re-erecting one 11KV pole with Overhead lines using ACSR Racoona	5500		
39	Dismantling ,shifting and re-erecting one 11KV double pole with OH lines (with or without stays)	13400		
40	Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is available) per metre	93		
41	Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is not available) per metre	116		
42	Conversion of LT single phase 2 wire line to LT Three phase 4 wire line	188		
43	Conversion of LT single phase 2 wire line to LT Three phase 5 wire line	246		
44	Conversion of LT single phase 3 wire line to LT Three phase 5 wire line	188		
45	Drawing Single Phase 2 wire line under existing HT line	185		
46	Drawing Single Phase 3 wire line under existing HT line	230		
47	Drawing Three Phase 4 wire line under existing HT line	291		
48	Drawing Three Phase 5 wire line under existing HT line	337		
49	Construction of LT single phase, 2 wire line	332		
50	Construction of LT single phase, 3 wire line	390		
51	Construction of LT 3 phase, 4 wire line	458		
52	Construction of LT 3 phase, 5 wire line	496		
53	Construction of 11kV line using ACSR RACOON using PSC Poles	597		
TRANSFORMERS				
54	Installation of one 11 KV/ 433 V , 100 KVA Transformer	298500		
55	Installation of one 11 KV/ 433 V , 160 KVA Transformer	400600		
56	Installation of one 11 KV/ 433 V , 250 KVA Transformer	444900		
57	Installation of one 11 KV/ 433 V , 315 KVA Transformer	562850		
58	Installation of one 11 KV/ 433 V , 500 KVA Transformer	701050		
STREET LIGHTS				
59	Installation of single tube fittings including cost of fluorescent tubes	3350		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">Sd/ Member (E)</td> <td style="width: 50%; text-align: center;">Sd/ Chairman</td> </tr> </table>			Sd/ Member (E)	Sd/ Chairman
Sd/ Member (E)	Sd/ Chairman			
SECRETARY, Kerala State Electricity Regulatory Commission				

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

1 Estimate for LT single phase weather proof service connection upto and including 5kW (using Static meter with LCD facility)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	22.00	doz	22.00
2	2.2	G.I.Wire	64.90	kg	142.78
3	40	Weather proof 1/1.8mm 2.5 sq.mmT.C	576.40	coil	230.56
4	1	32A fuse unit	75.90	No	75.90
5	0.5	Bolts and Nuts of sizes	82.50	kg	41.25
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			531.74
(b)		Storage @ 3% of cost of materials			15.95
(c)		Contingency @ 3% of cost of materials			15.95
(d)		Overhead charges @10% of cost of materials			53.17
		Expenditure on materials (sub-total)			616.82
(e)		Cost of labour			1244.10
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			1429.28
(g)		Supervision charges on cost of labour and transportation @10%			142.93
		Expenditure to be recovered (Grand total)			2189.03
Rounded to Rs					2200.00
(Rupees Two Thousand Two Hundred Only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

2 Estimate for LT three phase weather proof service connection up to and including 10 KW (using Static meter with LCD facility)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	22.00	doz	22.00
2	1	Earthing coil	588.50	No	588.50
3	4.4	GI wire	64.90	kg	285.56
4	80	Weather proof wire 1/2.8mm	1210.00	m	968.00
5	3	32 A fuse unit	75.90	No	227.70
6	1	Bolts and Nuts of sizes	82.50	kg	82.50
7	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			2193.51
(b)		Storage @ 3% of cost of materials			65.81
(c)		Contingency @ 3% of cost of materials			65.81
(d)		Overhead charges @10% of cost of materials			219.35
		Expenditure on materials (sub-total)			2544.47
(e)		Cost of labour			1658.80
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			1843.98
(g)		Supervision charges on cost of labour and transportation @10%			184.40
		Expenditure to be recovered (Grand total)			4572.85
Rounded to Rs					4600.00
(Rupees Four Thousand Six Hundred Only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

3 Estimate for LT 3 phase weather proof service connection above 10 kW & upto and including 25kW (using Static meter with LCD facility)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	22.00	doz	22.00
2	1	Earthing coil	588.50	No	588.50
3	4.4	GI wire	64.90	kg	285.56
4	160	PVC 50 sq.mm SC	35.20	M	5632.00
5	3	100 A fuse unit	396.00	No	1188.00
6	1	Bolts and Nuts of sizes	82.50	kg	82.50
7	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			7817.81
(b)		Storage @ 3% of cost of materials			234.53
(c)		Contingency @ 3% of cost of materials			234.53
(d)		Overhead charges @10% of cost of materials			781.78
		Expenditure on materials (sub-total)			9068.66
(e)		Cost of labour			2073.50
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2258.68
(g)		Supervision charges on cost of labour and transportation @10%			225.87
		Expenditure to be recovered (Grand total)			11553.21
Rounded to Rs.					11600.00
(Rupees Eleven Thousand Six Hundred Only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

4 Estimate for 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	22.00	doz	22.00
2	1	Earthing coil	588.50	No	588.50
3	160	PVC 95 Sqmm S.C	61.60	m	9856.00
4	4.4	GI wire	64.90	kg	285.56
5	3	200 A fuse unit	795.30	No	2385.90
6	2	Bolts and Nuts of sizes	82.50	kg	165.00
7	1	Insulation Tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			13322.21
(b)		Storage @ 3% of cost of materials			399.67
(c)		Contingency @ 3% of cost of materials			399.67
(d)		Overhead charges @10% of cost of materials			1332.22
		Expenditure on materials (sub-total)			15453.76
(e)		Cost of labour			2695.55
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2880.73
(g)		Supervision charges on cost of labour and transportation @10%			288.07
		Expenditure to be recovered (Grand total)			18622.56
Rounded to Rs.					18650.00
(Rupees Eighteen Thousand Six hundred and Fifty Only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

5 Estimate for 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	22.00	doz	22.00
2	1	Earthing coil	588.50	No	588.50
3	160	PVC 120 Sqmm S.C	77.00	m	12320.00
4	4.4	GI wire	64.90	kg	285.56
5	3	200 A fuse unit	697.40	No	2092.20
6	2	Bolts and Nuts of sizes	82.50	kg	165.00
7	1	Insulation Tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			15492.51
(b)		Storage @ 3% of cost of materials			464.78
(c)		Contingency @ 3% of cost of materials			464.78
(d)		Overhead charges @10% of cost of materials			1549.25
		Expenditure on materials (sub-total)			17971.31
(e)		Cost of labour			2902.90
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			3088.08
(g)		Supervision charges on cost of labour and transportation @10%			308.81
		Expenditure to be recovered (Grand total)			21368.20
Rounded to Rs.					21400.00
(Rupees Twenty One Thousand Four hundred only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

6 Estimate for providing support pole for weather proof service connection					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	7m PSC Pole	1915.10	No	1915.10
2	1	Clamp with Bolt and Nut	105.60	Set	105.60
(a)		Cost of materials (sub-total)			2020.70
(b)		Storage @ 3% of cost of materials			60.62
(c)		Contingency @ 3% of cost of materials			60.62
(d)		Overhead charges @10% of cost of materials			202.07
		Expenditure on materials (sub-total)			2344.01
(e)		Cost of labour			1057.65
(f)		Cost of transportation			637.56
		Cost of labour and transportation Sub-total (e&f)			1695.21
(g)		Supervision charges on cost of labour and transportation @10%			169.52
		Expenditure to be recovered (Grand total)			4208.74
Rounded to Rs.					4250.00
(Rupees Four Thousand Two Hundred and Fifty only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

7 Estimate for LT single phase over head service connection upto and including 50m with maximum 1 Post					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 7M	1915.10	No	1915.10
2	2	2 line Xarm with clamp for PSC post	276.10	No	552.20
3	4	Shackle set	46.20	Set	184.80
4	2	LT stay set	995.50	Set	1991.00
5	0.5	Bolt & Nut of sizes	82.50	kg	41.25
6	103	ACSR squirrel	18.10	M	1863.79
(a)		Cost of materials (sub-total)			6548.14
(b)		Storage @ 3% of cost of materials			196.44
(c)		Contingency @ 3% of cost of materials			196.44
(d)		Overhead charges @10% of cost of materials			654.81
		Expenditure on materials (sub-total)			7595.84
(e)		Cost of labour			3338.50
(f)		Cost of transportation			830.73
		Cost of labour and transportation Sub-total (e&f)			4169.23
(g)		Supervision charges on cost of labour and transportation @10%			416.92
		Expenditure to be recovered (Grand total)			12181.99
Rounded to Rs.					12200.00
(Rupees Twelve Thousand and Two hundred only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

8 Estimate for LT single phase over head service connection above 50M upto and including 100m with maximum 2 Posts.					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2	PSC Pole 7M	1915.10	No	3830.20
2	3	2 line Xarm with clamp for PSC post	276.10	No	828.30
3	4	Shackle set	46.20	Set	184.80
4	2	Pin insulator set	48.40	Set	96.80
5	2	LT stay set	995.50	Set	1991.00
6	1	Bolt & Nut of sizes	82.50	kg	82.50
7	206	ACSR squirrel	18.10	M	3727.57
(a)		Cost of materials (sub-total)			10741.17
(b)		Storage @ 3% of cost of materials			322.24
(c)		Contingency @ 3% of cost of materials			322.24
(d)		Overhead charges @10% of cost of materials			1074.12
		Expenditure on materials (sub-total)			12459.76
(e)		Cost of labour			5215.10
(f)		Cost of transportation			1668.01
		Cost of labour and transportation Sub-total (e&f)			6883.11
(g)		Supervision charges on cost of labour and transportation @10%			688.31
		Expenditure to be recovered (Grand total)			20031.18
Rounded to Rs.					20050.00
(Rupees Twenty Thousand and Fifty only)					
Note: Total estimate amount is to be arrived by including weather proof portion also.					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

9 Estimate for LT single phase over head service connection above 100M upto and including 150m with maximum 3 Posts.					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3	PSC Pole 7M	1915.10	No	5745.30
2	4	2 line Xarm with clamp for PSC post	276.10	No	1104.40
3	4	Shackle set	46.20	Set	184.80
4	4	Pin insulator set	48.40	Set	193.60
4	2	LT stay set	995.50	Set	1991.00
5	1.50	Bolt & Nut of sizes	82.50	kg	123.75
6	309	ACSR squirrel	18.10	m	5591.36
(a)		Cost of materials (sub-total)			14934.21
(b)		Storage @ 3% of cost of materials			448.03
(c)		Contingency @ 3% of cost of materials			448.03
(d)		Overhead charges @ 10% of cost of materials			1493.42
		Expenditure on materials (sub-total)			17323.68
(e)		Cost of labour			6873.90
(f)		Cost of transportation			2502.01
		Cost of labour and transportation Sub-total (e&f)			9375.91
(g)		Supervision charges on cost of labour and transportation @ 10%			937.59
		Expenditure to be recovered (Grand total)			27637.18
Rounded to Rs.					27650.00
(Rupees Twenty Seven Thousand Six Hundred and Fifty only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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10					
Estimate for LT single phase over head service connection above 150M upto and including 200m with maximum 4 Posts.					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	4	PSC Pole 7M	1915.10	No	7660.40
2	5	2 line Xarm with clamp for PSC post	276.10	No	1380.50
3	4	Shackle set	46.20	set	184.80
4	6	Pin Insulator set	48.40	set	290.40
5	2	LT stay set	995.50	set	1991.00
6	2	Bolt & Nut of sizes	82.50	kg	165.00
7	412	ACSR squirrel	18.10	m	7455.14
(a)		Cost of materials (sub-total)			19127.24
(b)		Storage @ 3% of cost of materials			573.82
(c)		Contingency @ 3% of cost of materials			573.82
(d)		Overhead charges @10% of cost of materials			1912.72
		Expenditure on materials (sub-total)			22187.60
(e)		Cost of labour			8957.85
(f)		Cost of transportation			3336.01
		Cost of labour and transportation Sub-total (e&f)			12293.86
(g)		Supervision charges on cost of labour and transportation @10%			1229.39
		Expenditure to be recovered (Grand total)			35710.84
Rounded to Rs.					35750.00
(Rupees Thirty Five Thousand Seven Hundred and Fifty only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

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11 Estimate for LT three phase over head service connection upto and including 50 M with maximum 1 post					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 8M	2355.10	No	2355.10
2	2	4 line Xarm with clamp	541.20	No	1082.40
3	8	Shackle set	46.20	set	369.60
4	2	LT stay set	995.50	set	1991.00
5	1.25	Bolt & Nut of sizes	82.50	kg	103.13
6	154.50	ACSR Rabbit	43.25	m	6682.43
7	51.50	ACSR Weasel	26.86	m	1383.39
(a)		Cost of materials (sub-total)			13967.05
(b)		Storage @ 3% of cost of materials			419.01
(c)		Contingency @ 3% of cost of materials			419.01
(d)		Overhead charges @10% of cost of materials			1396.71
		Expenditure on materials (sub-total)			16201.78
(e)		Cost of labour			3579.95
(f)		Cost of transportation			971.37
		Cost of labour and transportation Sub-total (e&f)			4551.32
(g)		Supervision charges on cost of labour and transportation @10%			455.13
		Expenditure to be recovered (Grand total)			21208.23
Rounded to Rs.					21250.00
(Rupees Twenty One Thousand Two hundred and Fifty only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

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12 Estimate for LT three phase over head service connection above 50 M upto and including 100 M with maximum 2 posts.					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	2	PSC Pole 8M	2355.10	No	4710.20
2	3	4 line Xarm with clamp	541.20	No	1623.60
3	8	Shackle set	46.20	set	369.60
4	4	Pin insulator set	48.40	set	193.60
4	2	LT stay set	995.50	set	1991.00
5	2.50	Bolt & Nut of sizes	82.50	kg	206.25
6	309	ACSR Rabbit	43.25	m	13364.87
7	103	ACSR Weasel	26.86	m	2766.79
(a)		Cost of materials (sub-total)			25225.90
(b)		Storage @ 3% of cost of materials			756.78
(c)		Contingency @ 3% of cost of materials			756.78
(d)		Overhead charges @10% of cost of materials			2522.59
		Expenditure on materials (sub-total)			29262.05
(e)		Cost of labour			5905.35
(f)		Cost of transportation			1946.01
		Cost of labour and transportation Sub-total (e&f)			7851.36
(g)		Supervision charges on cost of labour and transportation @10%			785.14
		Expenditure to be recovered (Grand total)			37898.54
Rounded to Rs.					37900.00
(Rupees Thirty Seven Thousand and Nine Hundred only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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13 Estimate for LT three phase overhead service connection above 100 M upto and including 150 M with maximum 3 Posts.					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	3	PSC Pole 8M	2355.10	No	7065.30
2	4	4 line Xarm with clamp	541.20	No	2164.80
3	8	Shackle set	46.20	set	369.60
4	8	Pin insulator set	48.40	set	387.20
4	2	LT stay set	995.50	set	1991.00
5	3.75	Bolt & Nut of sizes	82.50	kg	309.38
6	463.50	ACSR Rabbit	43.25	m	20047.30
7	154.50	ACSR Weasel	26.86	m	4150.18
(a)		Cost of materials (sub-total)			36484.76
(b)		Storage @ 3% of cost of materials			1094.54
(c)		Contingency @ 3% of cost of materials			1094.54
(d)		Overhead charges @10% of cost of materials			3648.48
		Expenditure on materials (sub-total)			42322.32
(e)		Cost of labour			7816.05
(f)		Cost of transportation			2917.38
		Cost of labour and transportation Sub-total (e&f)			10733.43
(g)		Supervision charges on cost of labour and transportation @10%			1073.34
		Expenditure to be recovered (Grand total)			54129.09
				Rounded to Rs.	54150.00
(Rupees Fifty Four Thousand One hundred and Fifty only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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14 Estimate for LT three phase overhead service connection above 150 M upto and including 200 M with maximum 4 Posts.					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	4	PSC Pole 8M	2355.10	No	9420.40
2	5	4 line Xarm	541.20	No	2706.00
3	8	Shackle set	46.20	set	369.60
4	12	Pin insulator set	48.40	set	580.80
4	2	LT stay set	995.50	set	1991.00
5	5	Bolt & Nut of sizes	82.50	kg	412.50
6	618	ACSR Rabbit	43.25	m	26729.74
7	206	ACSR Weasel	26.86	m	5533.57
(a)		Cost of materials (sub-total)			47743.61
(b)		Storage @ 3% of cost of materials			1432.31
(c)		Contingency @ 3% of cost of materials			1432.31
(d)		Overhead charges @10% of cost of materials			4774.36
		Expenditure on materials (sub-total)			55382.59
(e)		Cost of labour			9934.10
(f)		Cost of transportation			3888.74
		Cost of labour and transportation Sub-total (e&f)			13822.84
(g)		Supervision charges on cost of labour and transportation @10%			1382.28
		Expenditure to be recovered			70587.71
Rounded to Rs.					70600.00
(Rupees Seventy Thousand and Six hundred only)					
Note: Total estimate amount is to be arrived by including weather proof portion also					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

15 Estimate for post insertion in LT Single Phase overhead line (without stay)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 8M	2355.10	No	2355.10
2	1	2 line Xarm with clamp for PSC post	276.10	No	276.10
3	2	Pin insulator set	48.40	Set	96.80
4	0.50	Bolt & Nut of sizes	82.50	kg	41.25
(a)		Cost of materials (sub-total)			2769.25
(b)		Storage @ 3% of cost of materials			83.08
(c)		Contingency @ 3% of cost of materials			83.08
(d)		Overhead charges @10% of cost of materials			276.93
		Expenditure on materials (sub-total)			3212.33
(e)		Cost of labour			2105.73
(f)		Cost of transportation			830.73
		Cost of labour and transportation Sub-total (e&f)			2936.46
(g)		Supervision charges on cost of labour and			293.65
		Expenditure to be recovered (Grand total)			6442.44
				Rounded to Rs.	6450.00
(Rupees Six Thousand Four hundred and Fifty only)					

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16 Estimate for post insertion in LT single phase overhead line (with stay)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 8M	2355.10	No	2355.10
2	1	2 line Xarm with clamp for PSC post	276.10	No	276.10
3	2	Pin insulator set	48.40	set	96.80
4	1	LT stay set	995.50	set	995.50
5	0.50	Bolt & Nut of sizes	82.50	kg	41.25
(a)		Cost of materials (sub-total)			3764.75
(b)		Storage @ 3% of cost of materials			112.94
(c)		Contingency @ 3% of cost of materials			112.94
(d)		Overhead charges @10% of cost of materials			376.48
		Expenditure on materials (sub-total)			4367.11
(e)		Cost of labour			2421.98
(f)		Cost of transportation			830.73
		Cost of labour and transportation Sub-total (e&f)			3252.71
(g)		Supervision charges on cost of labour and transportation @10%			325.27
		Expenditure to be recovered (Grand total)			7945.09
				Rounded to Rs.	7950.00
(Rupees Seven Thousand Nine Hundred and Fifty only)					

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17 Estimate for post insertion in LT single phase overhead line (with strut)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 7M	1915.10	No.	1915.10
2	1	PSC Pole 8M	2355.10	No	2355.10
3	1	2 line Xarm with clamp for PSC post	276.10	No	276.10
4	2	Pin insulator set	48.40	set	96.80
5	0.50	Bolt & Nut of sizes	82.50	kg	41.25
6	2	Clamp	161.70	No	323.40
(a)		Cost of materials (sub-total)			5007.75
(b)		Storage @ 3% of cost of materials			150.23
(c)		Contingency @ 3% of cost of materials			150.23
(d)		Overhead charges @10% of cost of materials			500.78
		Expenditure on materials (sub-total)			5808.99
(e)		Cost of labour			3018.10
(f)		Cost of transportation			830.73
		Cost of labour and transportation Sub-total (e&f)			3848.83
(g)		Supervision charges on cost of labour and transportation @10%			384.88
		Expenditure to be recovered (Grand total)			10042.70
Rounded to Rs.					10050.00
(Rupees Ten thousand and Fifty only)					

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18 Estimate for post insertion in LT three phase over head line (without stay)					
Sl. No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 8M	2355.10	No	2355.10
2	1	4 line Xarm with clamp	541.20	No	541.20
3	4	Pin insulator set	48.40	set	193.60
5	1.25	Bolt & Nut of sizes	82.50	kg	103.13
(a)		Cost of materials (sub-total)			3193.03
(b)		Storage @ 3% of cost of materials			95.79
(c)		Contingency @ 3% of cost of materials			95.79
(d)		Overhead charges @10% of cost of materials			319.30
		Expenditure on materials (sub-total)			3703.91
(e)		Cost of labour			971.37
(f)		Cost of transportation			2131.31
		Cost of labour and transportation Sub-total (e&f)			3102.68
(g)		Supervision charges on cost of labour and transportation @10%			310.27
		Expenditure to be recovered (Grand total)			7116.86
Rounded to Rs.					7150.00
(Rupees Seven Thousand One Hundred and Fifty only)					

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19 Estimate for post insertion in LT three phase over head line (with stay)					
Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 8M	2355.10	No	2355.10
2	1	4 line Xarm	541.20	No	541.20
3	4	Pin insulator set	48.40	set	193.60
4	1	LT stay set	995.50	set	995.50
5	1.25	Bolt & Nut of sizes	82.50	kg	103.13
(a)		Cost of materials (sub-total)			4188.53
(b)		Storage @ 3% of cost of materials			125.66
(c)		Contingency @ 3% of cost of materials			125.66
(d)		Overhead charges @10% of cost of materials			418.85
		Expenditure on materials (sub-total)			4858.69
(e)		Cost of labour			2131.31
(f)		Cost of transportation			971.37
		Cost of labour and transportation Sub-total (e&f)			3102.68
(g)		Supervision charges on cost of labour and transportation @10%			310.27
		Expenditure to be recovered (Grand total)			8271.64
Rounded to Rs.					8300.00
(Rupees Eight Thousand Three Hundred only)					

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20	Estimate for post insertion in LT three phase over head line (with strut)				
Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	PSC Pole 7M	1915.10	No	1915.10
2	1	PSC Pole 8M	2355.10	No	2355.10
3	1	4 line Xarm with clamp	541.20	No	541.20
5	4	Pin insulator set	48.40	Set	193.60
6	1.25	Bolt & Nut of sizes	82.50	kg	103.13
7	2	Clamp	161.70	No	323.40
(a)		Cost of materials (sub-total)			5431.53
(b)		Storage @ 3% of cost of materials			162.95
(c)		Contingency @ 3% of cost of materials			162.95
(d)		Overhead charges @10% of cost of materials			543.15
		Expenditure on materials (sub-total)			6300.57
(e)		Cost of labour			3054.93
(f)		Cost of transportation			971.37
		Cost of labour and transportation Sub-total (e&f)			4026.30
(g)		Supervision charges on cost of labour and transportation @10%			402.63
		Expenditure to be recovered (Grand total)			10729.50
Rounded to Rs.					10750.00
(Rupees TenThousand Seven Hundred and Fifty only)					

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SI.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
21	Estimate for conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with connected load upto and including 10 kW.				
1	1	Iron screws of sizes	22.00	Doz	22.00
2	1.375	G.I. wire	64.90	kg	89.24
3	40	Weather proof wire 1/2.8mm T.C	1210.00	Coil	484.00
4	2	32 A fuse unit	75.90	each	151.80
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			931.29
(b)		Storage @ 3% of cost of materials			27.94
(c)		Contingency @ 3% of cost of materials			27.94
(d)		Overhead charges @10% of cost of materials			93.13
		Expenditure on materials (sub-total)			1080.29
(e)		Cost of labour			2073.50
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2258.68
(g)		Supervision charges on cost of labour and transportation @10%			225.87
		Expenditure to be recovered (Grand total)			3564.84
Rounded to Rs.					3600.00
(Rupees Three Thousand Six Hundred only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

SI.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
22	Estimate for conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with load above 10kW upto and including 25kW.				
1	1	Iron screws of sizes	22.00	doz	22.00
2	4.4	GI wire	64.90	kg	285.56
3	160	PVC 50 sq.mm S.C	35.20	m	5632.00
4	3	100 A fuse unit	697.40	each	2092.20
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			8216.01
(b)		Storage @ 3% of cost of materials			246.48
(c)		Contingency @ 3% of cost of materials			246.48
(d)		Overhead charges @10% of cost of materials			821.60
		Expenditure on materials (sub-total)			9530.57
(e)		Cost of labour			2073.50
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2258.68
(g)		Supervision charges on cost of labour and transportation @10%			225.87
(h)		Credit depreciated value @ 50% for the following :			
		35m weather proof wire 1/2.8mm, T.C @ Rs.1100/coil : 1 No. 32A fuse unit @ Rs.69/-; 2.2kg GI wire @ Rs.59/-			-292.00
		Expenditure to be recovered (Grand total)			11723.12
Rounded to Rs.					11750.00
(Rupees Eleven Thousand Seven Hundred and Fifty only)					

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SI.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
23	Estimate for conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with load above 25kW and below 50kVA				
1	1	Iron screws of sizes	22.00	doz	22.00
2	4.4	GI wire	64.90	kg	285.56
3	160	PVC 95 sq.mm S.C	61.60	M	9856.00
4	3	200 A fuse unit	795.30	No	2385.90
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			12733.71
(b)		Storage @ 3% of cost of materials			382.01
(c)		Contingency @ 3% of cost of materials			382.01
(d)		Overhead charges @10% of cost of materials			1273.37
		Expenditure on materials (sub-total)			14771.10
(e)		Cost of labour			2280.85
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2466.03
(g)		Supervision charges on cost of labour and transportation @10%			246.60
(h)		Credit depreciated value @ 50% for the following			
		35m weather proof wire 1/2.8mm, T.C @ Rs.1100/coil : 1 No. 32A fuse unit @ Rs.69/-; 2.2kg GI wire @ Rs.59/-			-292.00
		Expenditure to be recovered (Grand total)			17191.74
Rounded to Rs.					17200.00
(Rupees Seventeen Thousand Two Hundred only)					

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SI.No	Qty	Particulars	Rate	Unit	Amount
24	Estimate for conversion of LT single phase weather proof service connection to LT three phase weather proof service connection with load 50kVA and above up to and including 100kVA				
1	1	Iron screws of sizes	22.00	doz	22.00
2	4.4	GI wire	64.90	kg	285.56
3	160	PVC 120 sq.mm S.C	77.00	M	12320.00
4	3	200 A fuse unit	697.40	No	2092.20
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			14904.01
(b)		Storage @ 3% of cost of materials			447.12
(c)		Contingency @ 3% of cost of materials			447.12
(d)		Overhead charges @10% of cost of materials			1490.40
		Expenditure on materials (sub-total)			17288.65
(e)		Cost of labour			2280.85
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2466.03
(g)		Supervision charges on cost of labour and transportation @10%			246.60
(h)		Credit depreciated value @ 50% for the following			
		35m weather proof wire 1/2.8mm, T.C rate Rs.1100/coil : 1 No. 32A fuse unit @ Rs.69/-; 2.2kg GI wire @ Rs.59/-			-292.00
		Expenditure to be recovered (Grand total)			19709.28
Rounded to Rs.					19750.00
(Rupees Nineteen Thousand Seven hundred and Fifty only)					

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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 - 25 kW.					
Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	22.00	doz	22.00
2	4.4	GI wire	64.90	kg	285.56
3	160	PVC 50 sq.mm SC	35.20	M	5632.00
4	3	100 A fuse unit	396.00	No	1188.00
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			7311.81
(b)		Storage @ 3% of cost of materials			219.35
(c)		Contingency @ 3% of cost of materials			219.35
(d)		Overhead charges @10% of cost of materials			731.18
		Expenditure on materials (sub-total)			8481.70
(e)		Cost of labour			2073.50
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2258.68
(g)		Supervision charges on cost of labour and transportation @10%			225.87
		Expenditure to be recovered (Grand total)			10966.25
				Rounded to Rs.	11000.00
(Rupees Eleven thousand only)					

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26 Estimate for 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 and less than 50 kVA.					
Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	22.00	doz	22.00
2	160	PVC 95 Sqmm S.C	61.60	m	9856.00
3	4.4	GI wire	64.90	kg	285.56
4	3	200 A fuse unit	795.30	No	2385.90
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			12733.71
(b)		Storage @ 3% of cost of materials			382.01
(c)		Contingency @ 3% of cost of materials			382.01
(d)		Overhead charges @10% of cost of materials			1273.37
		Expenditure on materials (sub-total)			14771.10
(e)		Cost of labour			2695.55
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			2880.73
(g)		Supervision charges on cost of labour and transportation @10%			288.07
		Expenditure to be recovered (Grand total)			17939.91
Rounded to Rs.					17950.00
(Rupees Seventeen thousand Nine Hundred and Fifty only)					

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27 Estimate for enhancement of connected load of LT three phase weather proof service connection with a maximum connected load of 10 kW into the range of 50 kVA – 100 kVA					
Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1	Iron screws of sizes	22.00	doz	22.00
2	1	Earthing coil	588.50	No	588.50
3	160	PVC 120 Sqmm S.C	77.00	m	12320.00
4	4.4	GI wire	64.90	kg	285.56
5	3	200 A fuse unit	697.40	No	2092.20
6	2	Bolts and Nuts of sizes	82.50	kg	165.00
7	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			15492.51
(b)		Storage @ 3% of cost of materials			464.78
(c)		Contingency @ 3% of cost of materials			464.78
(d)		Overhead charges @10% of cost of materials			1549.25
		Expenditure on materials (sub-total)			17971.31
(e)		Cost of labour			2902.90
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			3088.08
(g)		Supervision charges on cost of labour and transportation @10%			308.81
		Expenditure to be recovered			21368.20
Rounded to Rs.					21400.00
(Rupees Twenty One Thousand and Four hundred only)					

Note: . Estimate for transformer installation attached separately

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SI.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
28	Estimate for enhancement of LT three phase weather proof service connection with connected load in the range of >10 kW to 25 kW into the range of > 25 kW and less than 50kVA.				
1	1	Iron screws of sizes	22.00	doz	22.00
2	160	PVC 95 Sqmm S.C	61.60	m	9856.00
3	4.4	GI wire	64.90	kg	285.56
4	3	200 A fuse unit	795.30	No	2385.90
5	2	Bolts and Nuts of sizes	82.50	kg	165.00
6	1	Insulation tape	19.25	Roll	19.25
(a)	Cost of materials (sub-total)				12733.71
(b)	Storage @ 3% of cost of materials				382.01
(c)	Contingency @ 3% of cost of materials				382.01
(d)	Overhead charges @10% of cost of materials				1273.37
Expenditure on materials (sub-total)					14771.10
(e)	Cost of labour				2695.55
(f)	Cost of transportation				185.18
Cost of labour and transportation Sub-total (e&f)					2880.73
(g)	Supervision charges on cost of labour and transportation @10%				288.07
Expenditure to be recovered (Grand total)					17939.91
Rounded to Rs.					17950.00
(Rupees Seventeen Thousand Nine Hundred and Fifty only)					

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SI.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
29	Estimate for enhancement of conn. load of LT three Phase weather proof service connection from the range of 10kW - 25 kW to the range of 50 kVA -100 kVA (excluding the rate of installation of Transformer)				
1	1	Iron screws of sizes	22.00	doz	22.00
2	160	PVC 120 Sqmm S.C	77.00	m	12320.00
3	4.4	GI wire	64.90	kg	285.56
4	2	Bolts and Nuts of sizes	82.50	kg	165.00
5	1	Insulation tape	19.25	Roll	19.25
(a)		Cost of materials (sub-total)			12811.81
(b)		Storage @ 3% of cost of materials			384.35
(c)		Contingency @ 3% of cost of materials			384.35
(d)		Overhead charges @10% of cost of materials			1281.18
		Expenditure on materials (sub-total)			14861.70
(e)		Cost of labour			2902.90
(f)		Cost of transportation			185.18
		Cost of labour and transportation Sub-total (e&f)			3088.08
(g)		Supervision charges on cost of labour and transportation @10%			308.81
		Expenditure to be recovered (Grand total)			18258.59
Rounded to Rs.					18300.00
(Rupees Eighteen Thousand Three Hundred only)					

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SI.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
30	Estimate for enhancement of conn. load of LT three Phase weather proof service connection from the range of 25kW - 50 kVA to the range of 50 kVA -100 kVA (excluding the rate of installation of Transformer)				
1	1	Iron screws of sizes	22.00	doz	22.00
2	160	PVC 120 Sqmm S.C	77.00	m	12320.00
3	4.4	GI wire	64.90	kg	285.56
4	2	Bolts and Nuts of sizes	82.50	kg	165.00
5	1	Insulation tape	19.25	Roll	19.25
(a)	Cost of materials (sub-total)				12811.81
(b)	Storage @ 3% of cost of materials				384.35
(c)	Contingency @ 3% of cost of materials				384.35
(d)	Overhead charges @10% of cost of materials				1281.18
Expenditure on materials (sub-total)					14861.70
(e)	Cost of labour				2902.90
(f)	Cost of transportation				185.18
Cost of labour and transportation Sub-total (e&f)					3088.08
(g)	Supervision charges on cost of labour and transportation @10%				308.81
Expenditure to be recovered (Grand total)					18258.59
Rounded to Rs.					18300.00
(Rupees Eighteen Thousand Nine Hundred and Fifty only)					

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31	Estimate for Shifting Energy Meters	
Single Phase Energy Meters		Unit
		Amount
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.		No
		394.00
Supervision charges on cost of labour and transportation @10%		39.40
Expenditure to be recovered (Grand total)		433.40
		Rounded to Rs. 433.00
(Rupees Four hundred and Thirty Three only)		

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financial year 2015-16

32	Estimate for Shifting Energy Meters	
Three Phase Energy Meters	Unit	Amount
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.	No	518.00
Supervision charges on cost of labour and transportation @10%		51.80
Expenditure to be recovered		569.80
Rounded to Rs.		570.00
(Rupees Five hundred and Seventy only)		

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Annexure 33

KERALA STATE ELECTRICITY REGULATORY COMMISSION
Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala
Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the
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33	Estimate for Shifting Energy Meters	
Three Phase CT Meters	Unit	Amount
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.	No	906.00
Supervision charges on cost of labour and transportation @10%		90.60
Expenditure to be recovered		996.60
	Rounded to Rs.	997.00
(Rupees Nine hundred and Ninety Seven only)		

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Member (E)

Sd/-
Chairman

SECRETARY, KSERC

Annexure 34

KERALA STATE ELECTRICITY REGULATORY COMMISSION
Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala
Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the
financial year 2015-16

34	Estimate for Shifting Energy Meters	
Single Phase ToD Meters		Unit
Amount		
Shifting one Single Phase ToD 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.		No
		492.50
Supervision charges on cost of labour and transportation @10%		
		49.25
Expenditure to be recovered (Grand total)		
		541.75
		Rounded to Rs. 542.00

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Chairman

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Annexure 35

KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

35	Estimate for Shifting Energy Meters	
Three Phase ToD Meters		Unit
Amount		
Shifting one Three Phase ToD 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.		No
		1132.50
Supervision charges on cost of labour and transportation @10%		
		113.25
Expenditure to be recovered (Grand total)		
		1245.75
Rounded to Rs.		1246.00
(Rupees One thousand Two hundred and Forty Six only)		

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

36		Dismantling, shifting and re-erecting one LT pole of Single phase OH Line using ACSR Rabbit (with or without stay)..... Assuming 28 Poles & 23 Stays per km line.	
Particulars		Amount Rs	
a) Shifting of 28 Nos. LT PSC poles			
	Digging pole pit		228.09
	Fitting and erecting of LT Single pole		844.21
	Dismantling from original position(60% of erection)		506.53
	Giving jumper connection and minor repairs		103.68
	Handling charges LS		66.00
	Total for LT pole.		1748.51
For 28 poles (1 Km)		Sub Total (a)	48958.17
b) Shifting of 23 Nos. stays			
	Digging one stay pit		228.09
	Erecting one stay for LT pole		324.78
	Dismantling from original position (60% of erection)		194.87
	Handling charges		66.00
	Total for one stay for LT pole		813.74
For 23 stays (1Km)		Sub Total (b)	18715.97
c) Shifting of 1 km LT SP line			
(i)	Cost of conductor for jointing and wastage		2178.00
(ii)	Storage @ 3% of cost of materials		65.34
(iii)	Contingency @ 3% of cost of materials		65.34
(iv)	Overhead charges @10% of cost of materials		217.80
(v)	Total (i+ii+iii+iv)		2526.48
(vi)	Stringing		6782.69
(vii)	Dismantling		4069.61
(viii)	Handling charges		66.00
(ix)	Cost of labour for Shifting 1 km LT SP line (vi+vii+viii)		10918.30
(x)	Supervision charges on cost of labour @10% of (ix)		1091.83
(xi)	Total cost for shifting 1 km LT SP line (v+ix+x)		14536.61
(xii)	Total expenditure for 1 km LT SP line (a+b+c(xi)		82210.75
(xiii)	Expenditure to be recovered for dismantling, shifting and re erecting one LT pole of SP OH line (xii/23)		2936.10
		Rounded to Rs.	2950.00
Rupees Two Thousand Nine Hundred and Fifty only			

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

38	Dismantling, shifting and re-erecting one 11kV pole with OH Lines using ACSR Racoon Assuming 23 Poles & 23 Stays per km line.	
Particulars		Amount Rs
a) Shifting of 23 Nos 11kV PSC poles		
	Digging one pole pit	414.70
	Fitting and erecting one 11 KV Single Pole	1496.00
	Dismantling from original position	897.60
	Giving jumper connection and minor repairs	66.00
	Handling charges	100.00
	Total for one 11 kV pole	2974.30
For 23 poles (1 Km) Sub Total (a)		68408.90
b) Shifting of 23 Nos. 11kV stays		
	Digging one stay pit	414.70
	Erecting one stay for 11kV pole	431.75
	Dismantling from original position	259.05
	Handling charges	66.00
	Total for one stay for 11 kV pole	1171.50
For 23 stays (1Km) Sub Total (b)		26944.50
c) Shifting of 1 km 11 kV line		
	For shifting 1 km 11 kV line, 100 m conductor is required for jointing	
(i)	Cost of conductor for jointing and wastage	6442.59
(ii)	Storage @ 3% of cost of materials	193.28
(iii)	Contingency @ 3% of cost of materials	193.28
(iv)	Overhead charges @10% of cost of materials	644.26
(v)	Total (i+ii+iii+iv)	7473.40
(vi)	Stringing	13187.38
(vii)	Dismantling	7912.43
(viii)	Handling charges	296.00
(ix)	Cost of labour for Shifting 1 km 11 kV line (vi+vii+viii)	21395.81
(x)	Supervision charges on cost of labour @10% of (ix)	2139.58
(xi)	Total cost for shifting 1 km 11kV line (v+ix+x)	31008.79
(xii)		126362.19
(xiii)	Expenditure to be recovered for dismantling, shifting and re	5494.01
Rounded to Rs.		5500.00
Rupees Five Thousand Five Hundred only		

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

39	Dismantling, shifting and re-erecting one 11KV Double Pole (DP) with OH lines using ACSR Racoon.	
Particulars		Amount Rs
a) Shifting 11KV DP using PSC poles		
	Digging pole pit	829.40
	Fitting and erecting of 11 KV Double Pole	4073.30
	Dismantling Double Pole from original position	2443.98
	Giving Jumper connection and minor repairs	66.00
	Handling charges	100.00
Sub -Total (a)		7512.68
b) Shifting one 11 KV stay		
	Digging one stay pit	1658.80
	Erecting one stay	1727.00
	Dismantling from original position	1036.20
	Handling charges	100.00
Sub -Total (b)		4522.00
c) Shifting 1 km 11 KV line		
For shifting 1 km line 100 m conductor is required for jointing and wastage		
(i)	Cost of conductor for jointing and wastage	6442.59
(ii)	Storage @ 3% of cost of materials	193.28
(iii)	Contingency @ 3% of cost of materials	193.28
(iv)	Overhead charges @10% of cost of materials	644.26
(v)	Total (i+ii+iii+iv)	7473.40
(vi)	Stringing	13187.38
(vii)	Dismantling	7912.43
(viii)	Handling charges	296.00
(ix)	Cost of labour for shifting 1Km 11kV line (vi+vii+viii)	21395.81
(x)	Supervision charges on cost of labour @10% of (ix)	2139.58
(xi)	Total cost for shifting 1 km 11kV line (v+ix+x)	31008.79
(xii)	Shifting line for one 11 kV DP (x/23)	1348.21
Expenditure to be recovered for dismantling, shifting and re erecting		13382.89
Rounded to Rs.		13400.00
(Rupees Thirteen Thousand and Four Hundred only)		

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

40 Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is available) inclusive of cost of pin and insulator etc (assuming total 28 Nos poles per kM (in which 6 Nos are Cut posts.)					
Sl. No	Qty	Particulars	Rate	Unit	Amount Rs
1	1050	ACSR Rabbit	43.25	M	45414.60
2	14	LT Shackle insulators with straps Bolt & Nuts	46.20	Set	646.80
3	21	LT Pin insulator with pin and packing clamp	48.40	Set	1016.40
4	LS	Provision for sectionalizing	LS		522.90
(a)	Cost of materials (sub-total)				47600.70
(b)	Storage @ 3% of cost of materials				1428.02
(c)	Contingency @ 3% of cost of materials				1428.02
(d)	Overhead charges @10% of cost of materials				4760.07
		Expenditure on materials (sub-total)			55216.81
(e)	Cost of labour				26919.11
(f)	Cost of transportation				7424.26
		Cost of labour and transportation Sub-total (e&f)			34343.37
(g)	Supervision charges on cost of labour and transportation @10%				3434.34
		Grand total			92994.52
		Expenditure to be recovered per metre			92.99
Rounded to Rs.					93.00
(Rupees Ninety Three only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

41 Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is not available) inclusive of cost of pin and insulator etc .(assuming total 28 Nos poles per kM (in which 6 Nos are Cut posts.)					
Sl. No	Qty	Particulars	Rate	Unit	Amount Rs
1	1050	ACSR Rabbit	43.25	M	45414.60
2	34	2 line cross arm with clamp	276.10	Nos	9387.40
3	14	LT Shackle with straps Bolt and Nuts	46.20	Set	646.80
4	21	LT pin insulator with pin and packing clamp	48.40	Set	1016.40
5	LS	Provision for sectionalizing		LS	522.90
6	15	Bolts and Nuts	82.50	Kg	1237.50
(a)	Cost of materials (sub-total)				58225.60
(b)	Storage @ 3% of cost of materials				1746.77
(c)	Contingency @ 3% of cost of materials				1746.77
(d)	Overhead charges @10% of cost of materials				5822.56
Expenditure on materials (sub-total)					67541.70
(e)	Cost of labour				34194.44
(f)	Cost of transportation				9448.76
Cost of labour and transportation Sub-total (e&f)					43643.20
(g)	Supervision charges on cost of labour and transportation @10%				4364.32
Grand total					115549.22
Expenditure to be recovered per metre					115.55
					Rounded to Rs. 116.00
(Rupees One Hundred and Sixteen only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

42		Conversion of LT single phase 2 wire to LT 3 Phase 4 wire line			
Sl. No.	Qty	Particulars	Rate	Unit	Amount Rs
1	2100	ACSR Rabbit	43.25	M	90829.20
2	29	2 Line cross arms with clamp	276.10	Nos	8006.90
3	28	LT Shackle with straps bolts and nuts	46.20	Set	1293.60
4	42	LT Pin insulator with pin and packing clamp	48.40	Set	2032.80
5	12	Bolts and nuts	82.50	Kg	990.00
6	4	LT lightning arrestors	346.50	Nos	1386.00
(a)	Cost of materials (sub-total)				104538.50
(b)	Storage @ 3% of cost of materials				3136.16
(c)	Contingency @ 3% of cost of materials				3136.16
(d)	Overhead charges @10% of cost of materials				10453.85
		Expenditure on materials (sub-total)			121264.66
(e)	Cost of labour				47197.22
(f)	Cost of transportation				13164.17
		Cost of labour and transportation Sub-total (e&f)			60361.39
(g)	Supervision charges on cost of labour and transportation @10%				6036.14
		Grand total			187662.19
		Expenditure to be recovered per metre			187.66
				Rounded to Rs.	188.00
(Rupees One Hundred and Eighty Eight only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

43 Conversion of LT single phase 2 wire to LT three phase 5 wire line					
Sl. No	Qty	Particulars	Rate	Unit	Amount Rs
1	2100	ACSR Rabbit	43.25	M	90829.20
2	1050	ACSR Weasel	26.86	M	28205.10
3	29	4 Line cross arms with clamp	541.20	Nos	15694.80
4	42	LT Shackle with straps bolts and nuts	46.20	Set	1940.40
5	63	Pin insulator with pin and packing clamp	48.40	Set	3049.20
6	12	Bolts and nuts	82.50	Kg	990.00
7	4	LT lightning arrestors	346.50	Nos	1386.00
(a)	Cost of materials (sub-total)				142094.70
(b)	Storage @ 3% of cost of materials				4262.84
(c)	Contingency @ 3% of cost of materials				4262.84
(d)	Overhead charges @10% of cost of materials				14209.47
Expenditure on materials (sub-total)					164829.85
(e)	Cost of labour				54296.68
(f)	Cost of transportation				18901.45
Cost of labour and transportation Sub-total (e&f)					73198.13
(g)	Supervision charges on cost of labour and transportation @10%				7319.81
Grand total					245347.79
Expenditure to be recovered per metre					245.35
Rounded to Rs.					246.00
(Rupees Two Hundred and Forty Six only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

44 Conversion of LT Single Phase three wire line to LT three phase 5 wire line					
Sl. No	Qty	Particulars	Rate	Unit	Amount Rs
1	2100	ACSR Rabbit	43.25	M	90829.20
2	29	2 Line cross arm with clamp	276.10	Nos	8006.90
3	28	LT Shackle with straps, bolts and nuts	46.20	Set	1293.60
4	42	LT Pin insulator with pin and packing clamp	48.40	Set	2032.80
5	12	Bolts and nuts	82.50	Kg	990.00
6	4	LT lightning arrestors	346.50	Nos	1386.00
(a)	Cost of materials (sub-total)				104538.50
(b)	Storage @ 3% of cost of materials				3136.16
(c)	Contingency @ 3% of cost of materials				3136.16
(d)	Overhead charges @10% of cost of materials				10453.85
Expenditure on materials (sub-total)					121264.66
(e)	Cost of labour				47197.22
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					60524.92
(g)	Supervision charges on cost of labour and transportation @10%				6052.49
Grand total					187842.07
Expenditure to be recovered per metre					187.84
Rounded to Rs.					188.00
(Rupees One Hundred and Eighty Eight only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

45		Drawing Single Phase 2 wire line under existing HT line			
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	4	4 Line Cross arm with clamp	541.20	Nos.	2164.80
2	16	2 Line cross arm with clamp	276.10	Nos.	4417.60
3	18	LT Shackles with straps Bolts and Nuts	46.20	Nos.	831.60
4	32	LT Pin insulator with pin and packing clamp	48.40	set	1548.80
5	15	Bolt and Nuts of size	82.50	Kg	1237.50
6	2100	ACSR Rabbit	43.25	M	90829.20
7	2	LT Lightning Arrestor	346.50	Nos.	693.00
8	6	Earthing complete	762.43	Nos.	4574.59
9	LS	Provision for sectionalizing	1892.76	LS	1720.69
10	20	Composite LT spacers	61.88	Each	1237.50
(a)	Cost of materials (sub-total)				109255.28
(b)	Storage @ 3% of cost of materials				3277.66
(c)	Contingency @ 3% of cost of materials				3277.66
(d)	Overhead charges @10% of cost of materials				10925.53
Expenditure on materials (sub-total)					126736.13
(e)	Cost of labour				38946.78
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					52274.48
(g)	Supervision charges on cost of labour and transportation @10%				5227.45
Grand total					184238.06
Expenditure to be recovered per metre					184.24
Rounded to Rs.					185.00
(Rupees One Hundred and Eighty Five only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

46 Drawing Single Phase 3 wire line under existing HT line					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	20	4 Line Cross arm with clamp	541.20	Nos.	10824.00
2	27	LT Shackles with straps and bolts	46.20	Nos.	1247.40
3	48	LT Pin insulator with pin and packing clamp	48.40	set	2323.20
4	20	Bolt and Nuts of size	82.50	Kg	1650.00
5	2100	ACSR Rabbit	43.25	M	90829.20
6	1050	ACSR Weasel	26.86	M	28205.10
7	2	LT Lightning Arrestor	346.50	Nos.	693.00
8	6	Earthing complete	762.43	Nos.	4574.59
9	LS	Provision for sectionalising	1892.76	LS	1720.69
10	20	Composite LT spacers	61.88	Nos.	1237.50
(a)	Cost of materials (sub-total)				143304.68
(b)	Storage @ 3% of cost of materials				4299.14
(c)	Contingency @ 3% of cost of materials				4299.14
(d)	Overhead charges @10% of cost of materials				14330.47
Expenditure on materials (sub-total)					166233.43
(e)	Cost of labour				43877.44
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					57205.14
(g)	Supervision charges on cost of labour and transportation @10%				5720.51
Grand total					229159.09
Expenditure to be recovered per metre					229.16
Rounded to Rs.					230.00
(Rupees Two Hundred and Thirty only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

47 Drawing 3 phase 4 wire line under existing HT line					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	20	4 Line Cross arm with clamp	541.20	Nos.	10824.00
2	36	LT Shackles with straps, Nut and Bolts	46.20	Nos.	1663.20
3	64	Pin insulator with pin and packing clamp	48.40	set	3097.60
4	20	Bolt and Nuts of sizes	82.50	Kg	1650.00
5	3150	ACSR Rabbit	43.25	M	136243.80
6	1050	ACSR Weasel	26.86	M	28205.10
7	6	LT Lightning Arrestor	346.50	Nos.	2079.00
8	6	Earthing complete	762.43	Nos.	4574.59
9	LS	Provision for sectionalizing	1892.76	LS	1720.69
10	20	Composite LT spacers	61.88	Nos.	1237.50
(a)	Cost of materials (sub-total)				191295.48
(b)	Storage @ 3% of cost of materials				5738.86
(c)	Contingency @ 3% of cost of materials				5738.86
(d)	Overhead charges @10% of cost of materials				19129.55
Expenditure on materials (sub-total)					221902.76
(e)	Cost of labour				49432.77
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					62760.47
(g)	Supervision charges on cost of labour and transportation @10%				6276.05
Grand total					290939.28
Expenditure to be recovered per metre					290.94
Rounded to Rs.					291.00

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

48 Drawing Three phase 5 wire line under existing HT line					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	20	4 Line Cross arm with clamp	541.20	Nos.	10824.00
2	20	2 Line cross arm with clamp	276.10	Nos.	5522.00
3	45	LT Shackles with straps and bolts and Nuts	46.20	Nos.	2079.00
4	80	LT Pin insulator with pin and packing clamp	48.40	set	3872.00
5	30	Bolt and Nuts of sizes	82.50	Kg	2475.00
6	3150	ACSR Rabbit	43.25	M	136243.80
7	2100	ACSR Weasel	26.86	M	56410.20
8	6	LT Lightning Arrestor	346.50	Nos.	2079.00
9	6	Earthing complete	762.43	Nos.	4574.59
10	LS	Provision for sectionalising	1892.76	LS	1720.69
11	20	Composite LT spacers	61.88	Nos.	1237.50
(a)	Cost of materials (sub-total)				227037.78
(b)	Storage @ 3% of cost of materials				6811.13
(c)	Contingency @ 3% of cost of materials				6811.13
(d)	Overhead charges @10% of cost of materials				22703.78
Expenditure on materials (sub-total)					263363.83
(e)	Cost of labour				53284.30
(f)	cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					66612.00
(g)	Supervision charges on cost of labour and transportation @10%				6661.20
Grand total					336637.03
Expenditure to be recovered per metre					336.64
Rounded to Rs.					337.00
(Rupees Three Hundred and Thirty Seven only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

49 Construction of LT Single Phase 2 Wire line					
Sl. No	Qty	Particulars	Rate	Unit	Amount Rs
1	30	LT PSC Post 8 m	2355.10	Nos.	70653.00
2	4	4 Line Cross arm with clamp	541.20	Nos.	2164.80
3	28	2 Line cross arm with clamp	276.10	Nos.	7730.80
4	28	LT Shackles with straps Bolts & Nuts	46.20	Nos.	1293.60
5	42	LT Pin insulator with pin and packing clamp	48.40	Set	2032.80
6	15	Bolt and Nuts of size	82.50	Kg	1237.50
7	10	Stay set complete	995.50	Set	9955.00
8	2100	ACSR Rabbit	43.25	M	90829.20
10	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
11	2	LT Lightning Arrestor	346.50	Nos.	693.00
12	6	Earthing complete	762.43	Nos.	4574.59
13	LS	Provision for sectionalising	1892.76	LS	1720.69
14	20	Composite LT spacers	61.88	Nos.	1237.50
(a)		Cost of materials (sub-total)			194769.28
(b)		Storage @ 3% of cost of materials			5843.08
(c)		Contingency @ 3% of cost of materials			5843.08
(d)		Overhead charges @10% of cost of materials			19476.93
		Expenditure on materials (sub-total)			225932.37
(e)		Cost of labour			82888.10
(f)		Cost of transportation			13327.70
		Cost of labour and transportation Sub-total (e&f)			96215.80
(g)		Supervision charges on cost of labour and transportation @10%			9621.58
		Grand total			331769.75
		Expenditure to be recovered per metre			331.77
Rounded to Rs.					332.00
(Rupees Three Hundred and Eleven only)					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

50 Construction of LT Single Phase 3 Wire line					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	30	LT PSC Post 8 m	2355.10	Nos.	70653.00
2	28	4 Line Cross arm with clamp	541.20	Nos.	15153.60
3	42	Shackles with straps and bolts	46.20	Nos.	1940.40
4	63	Pin insulator with pin and packing clamp	48.40	set	3049.20
5	20	Bolt and Nuts of size	82.50	Kg	1650.00
6	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
7	20	Stay set complete	995.50	set	19910.00
8	2100	ACSR Rabbit	43.25	M	90829.20
9	1050	ACSR Weasel	26.86	M	28205.10
10	2	LT Lightning Arrestor	346.50	Nos.	693.00
11	6	Earthing complete	762.43	Nos.	4574.59
12	LS	Provision for sectionalising	1892.76	LS	1720.69
13	20	Composite LT spacers	61.88	Nos.	1237.50
(a)	Cost of materials (sub-total)				240263.08
(b)	Storage @ 3% of cost of materials				7207.89
(c)	Contingency @ 3% of cost of materials				7207.89
(d)	Overhead charges @10% of cost of materials				24026.31
Expenditure on materials (sub-total)					278705.18
(e)	Cost of labour				87762.97
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					101090.67
(g)	Supervision charges on cost of labour and transportation @10%				10109.07
Grand total					389904.91
Expenditure to be recovered per metre					389.90
Rounded to Rs.					390.00
(Rupees Three Hundred and Ninety only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

51 Construction of LT Three Phase 4 Wire line					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	30	LT PSC Post 8 m	2355.10	Nos.	70653.00
2	28	4 Line Cross arm with clamp, Bolt & Nuts	541.20	Nos.	15153.60
3	56	LT Shackles with straps and bolts	46.20	Nos.	2587.20
4	84	LT Pin insulator with pin and packing clamp	48.40	Set	4065.60
5	20	Bolt and Nuts of size	82.50	Kg	1650.00
6	20	Stay set complete	995.50	Set	19910.00
7	3150	ACSR Rabbit	43.25	M	136243.80
8	1050	ACSR Weasel	26.86	M	28205.10
9	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
10	6	LT Lightning Arrestor	346.50	Nos.	2079.00
11	6	Earthing complete	762.43	Nos.	4574.59
12	LS	Provision for sectionalising	1892.76	LS	1720.69
13	LS	Provision for helically formed fitting	0.00	LS	7592.40
14	20	Composite LT spacers	61.88	Nos.	1237.50
(a)	Cost of materials (sub-total)				296319.28
(b)	Storage @ 3% of cost of materials				8889.58
(c)	Contingency @ 3% of cost of materials				8889.58
(d)	Overhead charges @10% of cost of materials				29631.93
Expenditure on materials (sub-total)					343730.37
(e)	Cost of labour				89795.68
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					103123.38
(g)	Supervision charges on cost of labour and transportation @10%				10312.34
Grand total					457166.09
Expenditure to be recovered per metre					457.17
Rounded to Rs.					458.00
(Rupees Four Hundred and Fifty Eight only)					

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52	Construction of LT Three Phase 5 Wire line				
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	30	LT PSC Post 8 m	2355.10	Nos.	70653.00
2	28	4 Line Cross arm with clamp	541.20	Nos.	15153.60
3	28	2 Line cross arm with clamp	276.10	Nos.	7730.80
4	70	LT Shackles with straps and bolts	46.20	Nos.	3234.00
5	105	LT Pin insulator with pin and packing clamp	48.40	Set	5082.00
6	30	Bolt and Nuts of size	82.50	Kg	2475.00
7	20	Stay set complete	995.50	Set	19910.00
8	3150	ACSR Rabbit	43.25	M	136243.80
9	2100	ACSR Weasel	26.86	M	56410.20
10	4	Clamp for 2 Nos. strut	161.70	Nos	646.80
11	6	LT Lightning Arrestor	346.50	Nos.	2079.00
12	6	Earthing complete	762.43	Nos.	4574.59
13	LS	Provision for sectionalising	1892.76	LS	1720.69
14	20	Composite LT spacers	61.88	Nos.	1237.50
(a)	Cost of materials (sub-total)				327150.98
(b)	Storage @ 3% of cost of materials				9814.53
(c)	Contingency @ 3% of cost of materials				9814.53
(d)	Overhead charges @10% of cost of materials				32715.10
Expenditure on materials (sub-total)					379495.14
(e)	Cost of labour				91962.51
(f)	Cost of transportation				13327.70
Cost of labour and transportation Sub-total (e&f)					105290.21
(g)	Supervision charges on cost of labour and transportation @10%				10529.02
Grand total					495314.37
Expenditure to be recovered per metre					495.314
Rounded to Rs.					496.00
(Rupees Four Hundred and Ninety Six only)					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

53		Construction of 11KV line using ACSR Raccoon			
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	24	PSC Post 9 m	3688.30	Nos.	88519.20
2	16	V cross arm with clamp	1058.20	Nos.	16931.20
3	27	MS Cleat	81.40	Nos.	2197.80
4	90	Washers of sizes	6.88	Nos.	618.75
5	50	Bolt and Nuts of size	82.50	Kg	4125.00
6	21	Stay set complete	1346.40	Set	28274.40
7	3150	ACSR Raccoon	64.43	M	202945.05
8	125	Angles and channels	84.70	Kg	10587.50
9	27	Tension set with single disc	465.30	Set	12563.10
10	16	Provision for coil earthing	762.43	Nos.	12198.91
11	48	11 KV Pin insulator set	132.00	Nos.	6336.00
12	16	Pole top bracket	130.90	Nos.	2094.40
13	8	Provision for pipe earthing	2890.25	Set	23122.00
(a)	Cost of materials (sub-total)				410513.31
(b)	Storage @ 3% of cost of materials				12315.40
(c)	Contingency @ 3% of cost of materials				12315.40
(d)	Overhead charges @10% of cost of materials				41051.33
Expenditure on materials (sub-total)					476195.44
(e)	Cost of labour				99801.64
(f)	Cost of transportation				9994.95
Cost of labour and transportation Sub-total (e&f)					109796.59
(g)	Supervision charges on cost of labour and transportation @10%				10979.66
Grand total					596971.69
Expenditure to be recovered per metre					596.97
Rounded to Rs.					597.00
(Rupees Five Hundred and Ninety Seven only)					
Note : Amount for PTCC Clearance and Tree Cutting Costs shall be recovered extra, on actuals					

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KERALA STATE ELECTRICITY REGULATORY COMMISSION

Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

54 Installation of 1 No. 11 KV/ 433 V , 100 KVA Transformer (pole mounted)					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	1	100 KVA Transformer	133650.00	Each	133650.00
2	2	PSC Pole 9M	3688.30	Each	7376.60
3	8	Channel Cross Arm 3M with clamp	2426.60	Each	19412.80
4	15	Bolt & Nut of sizes	82.50	kg	1237.50
5	40	Washers of sizes	6.88	Each	275.00
6	1	11 kV AB Switch	10872.40	Each	10872.40
7	3	D. O. Fuse unit	721.60	Each	2164.80
8	3	11 kV Lightning Arrestor	336.60	Each	1009.80
9	5	Provision for earthing	2890.25	Each	14451.25
10	1	Provision for Jumpering	1293.193	LS	1293.19
11	1	Provision for Clamping	587.818	LS	587.82
12	6	Fuse unit 200A	795.30	Each	4771.80
13	1	Distribution Box	22275.00	LS	22275.00
14	2	Statutory Boards	13.20	Each	26.40
15	4	2 line X-arm	276.10	Each	1104.40
16	1	Lock & Key	151.25	Each	151.25
(a)		Cost of materials (sub-total)			220660.01
(b)		Storage @ 3% of cost of materials			6619.80
(c)		Contingency @ 3% of cost of materials			6619.80
(d)		Overhead charges @10% of cost of materials			22066.00
		Expenditure on materials (sub-total)			255965.61
(e)		Electrical Inspectorate Fees			1150.00
(f)		Cost of labour			30961.72
(g)		cost of transportation			6662.21
		Cost of labour and transportation Sub-total (f&g)			37623.93
(h)		Supervision charges on cost of labour and transportation @10%			3762.39
		Expenditure to be recovered (Grand total)			298501.94
Rounded to Rs.					298500.00
Rupees Two Lakhs Ninety Eight thousand and Five hundred Only					
Note : Amount, if any, for PTCC clearance and tree cutting costs shall be collected extra					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

55 Installation of 1 No. 11 KV/ 433 V , 160 KVA Transformer					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	1	160 KVA Transformer	194700.00	Each	194700.00
2	2	PSC Pole 9M	3688.30	Each	7376.60
3	1	Constructing Plinth	22961.96	Each	22961.96
4	6	Channel Cross Arm 3M with clamp	2426.60	Each	14559.60
5	15	Bolt & Nut of sizes	82.50	kg	1237.50
6	40	Washers of sizes	6.88	Each	275.00
7	1	11 kV AB Switch	10872.40	Each	10872.40
8	3	D. O. Fuse unit	721.60	Each	2164.80
9	3	11 kV Lightning Arrestor	336.60	Each	1009.80
10	5	Provision for earthing	2890.25	Each	14451.25
11	1	Provision for Jumpering	1293.193	LS	1293.19
12	1	Provision for Clamping	587.818	LS	587.82
13	6	Fuse unit 200A	795.30	Each	4771.80
14	1	Distribution Box	22275.00	LS	22275.00
15	2	Statutory Boards	13.20	Each	26.40
16	4	2 line X-arm	276.10	Each	1104.40
17	1	Lock & Key	151.25	Each	151.25
(a)		Cost of materials (sub-total)			299818.77
(b)		Storage @ 3% of cost of materials			8994.56
(c)		Contingency @ 3% of cost of materials			8994.56
(d)		Overhead charges @10% of cost of materials			29981.88
		Expenditure on materials (sub-total)			347789.78
(e)		Electrical Inspectorate Fees			1450.00
(g)		Cost of labour			33350.72
(g)		cost of transportation			13327.70
		Cost of labour and transportation Sub-total (f&g)			46678.42
(h)		Supervision charges on cost of labour and transportation @10%			4667.84
		Expenditure to be recovered (Grand total)			400586.04
Rounded to Rs.					400600.00
Rupees Four Lakhs and Six Hundred Only					
Note : Amount, if any, for PTCC clearance and tree cutting costs shall be collected extra					

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Cost Data of Distribution works, approved by the Commission vide Reg. 33 of Kerala Electricity Supply Code, 2014, for Thrissur Corporation Electricity Department for the financial year 2015-16

56 Installation of 1 No. 11 KV/ 433 V, 250 KVA Transformer					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	1	250 KVA Transformer	227150.00	Each	227150.00
2	2	PSC Pole 9M	3688.30	Each	7376.60
3	1	Constructing Plinth	22961.96	Each	22961.96
4	6	Channel Cross Arm 3M with clamp	2426.60	Each	14559.60
5	15	Bolt & Nut of sizes	82.50	kg	1237.50
6	40	Washers of sizes	6.88	Each	275.00
7	1	11 kV AB Switch	10872.40	Each	10872.40
8	3	D. O. Fuse unit	721.60	Each	2164.80
9	3	11 kV Lightning Arrestor	336.60	Each	1009.80
10	5	Provision for earthing	2890.25	Each	14451.25
11	1	Provision for Jumpering	1293.193	LS	1293.19
12	1	Provision for Clamping	587.818	LS	587.82
13	6	Fuse unit 300A	1268.30	Each	7609.80
14	1	Distribution Box	22275.00	LS	22275.00
15	2	Statutory Boards	13.20	Each	26.40
16	4	2 line X-arm	276.10	Each	1104.40
17	1	Lock & Key	151.25	Each	151.25
(a)		Cost of materials (sub-total)			335106.77
(b)		Storage @ 3% of cost of materials			10053.20
(c)		Contingency @ 3% of cost of materials			10053.20
(d)		Overhead charges @10% of cost of materials			33510.68
		Expenditure on materials (sub-total)			388723.86
(e)		Electrical Inspectorate Fees			1900.00
(f)		Cost of labour			35977.19
(g)		cost of transportation			13327.70
		Cost of labour and transportation Sub-total (e&f)			49304.89
(h)		Supervision charges on cost of labour and transportation @10%			4930.49
		Expenditure to be recovered (Grand total)			444859.23
Rounded to Rs.					444900.00
Rupees Four Lakhs Forty Four thousand and Nine hundred Only					
Note : Amount, if any, for PTCC clearance and tree cutting costs shall be collected extra					

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57 Installation of 1 No. 11 KV/ 433 V, 315 KVA Transformer					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	1	315 KVA Transformer	332322.00	Each	332322.00
2	2	PSC Pole 9M	3688.30	Each	7376.60
	1	Constructing Plinth	22961.96	Each	22961.96
3	8	Channel Cross Arm 3M with clamp	2426.60	Each	19412.80
4	15	Bolt & Nut of sizes	82.50	kg	1237.50
5	40	Washers of sizes	6.88	Each	275.00
6	1	11 kV AB Switch	10872.40	Each	10872.40
7	3	D. O. Fuse unit	721.60	Each	2164.80
8	3	11 kV Lightning Arrestor	336.60	Each	1009.80
9	5	Provision for earthing	762.43	Each	3812.16
10	1	Provision for Jumpering	1293.193	LS	1293.19
11	1	Provision for Clamping	587.818	LS	587.82
12	12	Fuse unit 300A	1268.30	Each	15219.60
13	1	Distribution Box	33000.00	LS	33000.00
14	2	Statutory Boards	13.20	Each	26.40
15	4	2 line X-arm	276.10	Each	1104.40
16	1	Lock & Key	151.25	Each	151.25
(a)		Cost of materials (sub-total)			452827.68
(b)		Storage @ 3% of cost of materials			13584.83
(c)		Contingency @ 3% of cost of materials			13584.83
(d)		Overhead charges @10% of cost of materials			45282.77
		Expenditure on materials (sub-total)			525280.11
(e)		Electrical Inspectorate Fees			775.00
(f)		Cost of labour			26744.94
(g)		cost of transportation			6662.21
		Cost of labour and transportation Sub-total (f&g)			33407.15
(h)		Supervision charges on cost of labour and transportation @10%			3340.72
		Expenditure to be recovered (Grand total)			562802.98
		Rounded to Rs.			562850.00
Rupees Five Lakh Sixty two Thousand Eight Hundred and Fifty Only					
Note : Amount, if any, for PTCC clearance and tree cutting costs shall be collected extra					

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58 Installation of 1 No. 11 KV/ 433 V , 500 KVA Transformer					
SI No	Qty	Particulars	Rate	Unit	Amount Rs
1	1	500 KVA Transformer	424600.00	Each	424600.00
2	2	PSC Pole 9M	3688.30	Each	7376.60
3	1	Constructing Plinth	22961.96	Each	22961.96
4	6	Channel Cross Arm 3M with clamp	2426.60	Each	14559.60
5	15	Bolt & Nut of sizes	82.50	kg	1237.50
6	40	Washers of sizes	6.88	Each	275.00
7	1	11 kV AB Switch	10872.40	Each	10872.40
8	3	D. O. Fuse unit	721.60	Each	2164.80
9	3	11 kV Lightning Arrestor	336.60	Each	1009.80
10	5	Provision for earthing	2890.25	Each	14451.25
11	1	Provision for Jumpering	1293.193	LS	1293.19
12	1	Provision for Clamping	587.818	LS	587.82
13	12	Fuse unit 300A	1268.30	Each	15219.60
14	1	Distribution Box	33000.00	LS	33000.00
15	2	Statutory Boards	13.20	Each	26.40
16	4	2 line X-arm	276.10	Each	1104.40
17	1	Lock & Key	151.25	Each	151.25
(a)		Cost of materials (sub-total)			550891.57
(b)		Storage @ 3% of cost of materials			16526.75
(c)		Contingency @ 3% of cost of materials			16526.75
(d)		Overhead charges @10% of cost of materials			55089.16
		Expenditure on materials (sub-total)			639034.22
(e)		Electrical Inspectorate Fees			3150.00
(f)		Cost of labour			40177.06
(g)		cost of transportation			13327.70
		Cost of labour and transportation Sub-total (e&f)			53504.76
(h)		Supervision charges on cost of labour and transportation @10%			5350.48
		Expenditure to be recovered (Grand total)			701039.46
Rounded to Rs.					701050.00
Rupees Seven Lakhs One Thousand and Fifty Only					
Note : Amount, if any, for PTCC clearance and tree cutting costs shall be collected extra.					

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59 Installation of Single Tube fittings including cost of fluorescent tubes					
Sl. No.	Qty	Particulars	Rate	Unit	Amount Rs
1	1	Street light fitting with 1x40 Watts FT with CBN	1400.00	No.	1400.00
2	1	Pipe Fitting for set with CBN for street light fitting	795.00	No.	795.00
3	LS	Weather proof wire and wiring clip	220.00	LS	220.00
(a)		Cost of materials (sub-total)			2415.00
(b)		Storage @ 3% of cost of materials			72.45
(c)		Contingency @ 3% of cost of materials			72.45
(d)		Overhead charges @10% of cost of materials			241.50
		Expenditure on materials (sub-total)			2801.40
(e)		Cost of labour			357.19
(f)		cost of transportation			134.09
		Cost of labour and transportation Sub-total (e&f)			491.28
(g)		Supervision charges on cost of labour and transportation @10%			49.13
		Expenditure to be recovered (Grand total)			3341.81
		Rounded to Rs.			3350.00
Rupees Three Thousand Three Hundred and Fifty only					

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