



## KERALA STATE ELECTRICITY BOARD LIMITED

Incorporated under the Companies Act, 1956

Corporate identity Number: U40100KL201 ISGC0272424

Regd Office: Vydyuthi Bhavanam, Pattom, Thiruvananthapuram – 695004

Office of the Deputy Chief Engineer, Tariff and Regulatory Affairs Cell

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No: TRAC/R2/GL/Cost Data -2023/22-23/248

dated 14.07.2023

To

The Secretary

KSERC

KPFC Bhavanam, Vellayambalam

Thiruvananthapuram.

Sir,

Sub:- Seeking approval of Cost Data -2023 – Revised proposal submission - reg.

Ref :- Petition OP No. 36/2023 filed by KSEBL.

I am directed by the Board to submit an additional submission on Petition No. 36/2023 filed by KSEBL in the matter seeking approval of Cost Data-2023 and per kVA rates. Accordingly, six copies of the revised scheme in petition format are enclosed herewith. It is requested that Hon'ble Commission may kindly consider the same.

Yours faithfully,

  
Chief Engineer (Commercial & Tariff)



Acc: Original Submission +5 Copies

**BEFORE THE HON'BLE KERALA STATE ELECTRICITY  
REGULATORY COMMISSION**

**Petition No : OP No. 36/2023**

**In the Matter of: Petition for approving Cost Data -2023 and per kVA rates for  
Distribution Works based on revised uniform labour data and  
rate of materials**

**AND**

**In the matter of :Additional Submission**

**Applicant : Kerala State Electricity Board Limited ,  
Vydyuthi Bhavanam, Pattom,  
Thiruvananthapuram**

**AFFIDAVIT VERIFYING THE PETITION**

I, Sajeev G., son of N. Gopalakrishnan aged 52 years residing at MURALEEGOPALAM, TC 2/990(4), KPRA-A59(2), KOONAMKULAM LANE, MURINJAPALAM, MEDICAL COLLEGE P.O., Trivandrum – 695 011 , do solemnly affirm and say as follows:

I am Chief Engineer (Commercial & Tariff) of the Kerala State Electricity Board Ltd., Vydyuthi Bhavanam, Pattom, Thiruvananthapuram, and the Petitioner in the above matter and I am duly authorized by the Board to make this affidavit on its behalf. I solemnly affirm at Thiruvananthapuram on this the ~~14~~<sup>14</sup> day of July 2023 that the contents of the above submission are true to my information, knowledge and belief. I believe that no part of it is false and no material has been concealed there from.

Deponent

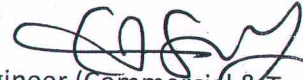


Chief Engineer (Commercial & Tariff)  
Kerala State Electricity Board Limited  
Vydyuthi Bhavanam, Pattom  
Thiruvananthapuram – 695 004.

**VERIFICATION**

I, the above named deponent, solemnly affirm at Thiruvananthapuram on this; the ..... day of July 2023 that the contents of the affidavit are true to my information, knowledge and belief, that no part of it is false and that no material has been concealed there from.

Deponent



Chief Engineer (Commercial & Tariff)  
Kerala State Electricity Board Limited  
Vydyuthi Bhavanam, Pattom  
Thiruvananthapuram – 695 004.

**BEFORE THE HON'BLE KERALA STATE ELECTRICITY REGULATORY COMMISSION**  
**at its office, KPFC Bhavan, Vellayambalam, Thiruvananthapuram**

**In the Matter of** : Seeking approval for Cost Data -2023 and per kVA rates  
**Applicant** : Kerala State Electricity Board Limited,  
Vydyuthi Bhavanam,  
Pattom, Thiruvananthapuram

**THE APPLICANT SUBMITS THE FOLLOWING THAT:**

1. In continuation to the earlier petition submitted for approval of Cost Data - 2023, the following are also submitted for the Kind consideration of the Hon'ble Commission.
2. Kerala State Electricity Board Limited as per the petition (OP No. 36/2023) had sought approval of the Cost Data -2023 and the per kVA rates for recovery of expenditure under section 46 of the Electricity Act, 2003. The estimates for the Cost Data -2023 had been arrived based on the revised Uniform Labour Data -2022 (Prepared based on DSR 2018 and cost index published by the PWD wing), Standard rate of materials as per the purchase done by KSEBL on 2021-22 and the transportation arrived based on calculation. The methodology taken for arrival of per kVA rates was to use the past actuals to average out the costs applicable.
3. The Hon'ble Commission as per letter dated 22.06.2023 had pointed out certain anomalies noticed in the rates arrived for Cost Data and had also sought certain clarification regarding the rates arrived for transportation and number of poles for construction of LT and HT lines. The Committee constituted for preparing the Cost Data had analyzed each and every aspect of the observations made by the Hon'ble Commission and had suggested remedial actions which was later approved by the Board to be submitted before the Hon'ble Commission for approval. Hence, this additional submission is submitted by KSEBL with the revised Cost Data -2023 rates and the per kVA rates for favour of approval.
4. As far as the matter of Hon'ble Commission observance of having a high transportation charges claimed from section store to work site, it is submitted that the rates as per the

original petition had been arrived considering the transportation rates from SRS store (Sub Regional Store) to the section store and then to work site. However, based on the observation made by the Hon'ble Commission that the transportation is high, KSEBL had suggested for excluding the transportation from the SRS store to the section store from the estimates. However, it is a fact that the delivery of goods based on the purchase order is done at the SRS stores and hence there occurs transportation for taking the materials from the SRS stores to the section stores and so had been included in the estimates. This was also allowed by the Hon'ble Commission in the previous Cost Data. Since it was observed that the LT materials and most of the HT materials are been transported from the SRS store to the section store with the department vehicle, it was proposed to exclude the same from the estimates. However, it is also observed that in certain HT material transportation cases, transportation charges will be incurred by the contractor. So provision was given in the estimates for collecting additional transportation rates if incurred as per the ULD rates in the HT estimates.

5. As far as the increase in number of poles used for the construction of LT/HT lines, it had been observed that the LT network penetration is now very high, many HT lines are now being drawn along the RoW (Right of Way) of these LT lines. Further, the lines being drawn alongside of roads, not necessarily straight roads, short span lengths, more number of posts are required. Hence KSEBL proposes to go with the increased number of poles as it was found to be reasonable as per the actuals.
6. Based on the observation made by the Hon'ble Commission, it was noticed that certain minor mistakes had crept in the estimates meant for the installation of transformer (earthing qty), construction of ABC Line (duplication of anchoring clamp and suspension clamp) which had been rectified in the revised Cost Data submitted herewith.
7. Further, it was noticed that there is a significant variation in the rates arrived for the HT ABC and LT ABC based on the latest SCM purchases. The rate for HT ABC was found to be on the higher side whereas LT ABC rates decreased based on the latest purchase. The rate for HT ABC of size 3x150 +1x120 sq mm as per latest SCM purchase order is Rs 1117.77/m and for HT ABC of size 3x120 +1x95 sq mm is Rs 1000.22/m, whereas the rates in the proposed Cost Data are Rs 896/m and Rs 787/m respectively. Also, the rates as per

the latest purchase order for LT ABC (1x25+1x25 sq mm) is Rs 54.04/m as against the rate of Rs 75/m used in the earlier proposed cost data. Hence, the latest rates for the above had been taken in the revised cost data which is submitted herewith as **Exhibit AP-1** and the comparison of same with the last year is shown in **Exhibit AP-2**. The materials rates taken in the Cost Data which is in deviation from the rates arrived by the Committee is shown as **Exhibit AP-3**.

8. Based on the revised Cost Data rates, the per kVA rates arrived with the earlier methodology is shown below. The rates arrived are inclusive of ABC component;

**a) Weather proof service connection rates**

i) Single phase (upto 5kW) - Rs 3604/- per service connection

ii) Three phase (upto 10kW) – Rs 6935/- per service connection

**b) Service Connections where LT overhead construction (Upto 200m from existing distribution main) is required**

i) Single phase (upto 5kW) – Rs 23,631/- per service connection

ii) Three phase (upto 10kW)- Rs 37,644/- per service connection

Note: When the existing distribution mains is more than 200m away from the consumer premises charges for that portion in excess of 200m will also be applicable

**c) Service connection for LT consumers having connected load above 10kW with or without line construction**


Rs 19932/- (base rate)+ Rs 1400/kW of connected load above 10kW, but will be subject to a minimum of Rs 37644/- (the rate applicable to TP SC upto and including 10kW as above)

Note: When the existing distribution mains is more than 200m away from the consumer premises charges for that portion in excess of 200m will also be applicable

The consumers having load upto 10kW, the rates are per service connection. For loads beyond 10kW the rates are based on kVA. For contract demand consumers, the rates are to be realized based on their Contract Demand. For collecting per kVA rates from other consumers, a pf of 0.9 (as approved by the Hon'ble Commission) can be taken for conversion of their load from kW to kVA. The methodology taken for arriving at the per kVA rates is detailed in **Exhibit AP-4**.

9. Prayer

It is humbly prayed that the Hon. Commission may kindly approve the revised cost data-2023 (Exhibit AP-1) and the per kVA rates (Exhibit AP-4) for recovery of expenditure under section 46 of Electricity Act, 2003. KSEBL may also be authorized to collect the applicable GST from consumers based on the orders issued by the Government in this behalf from time to time.



Chief Engineer (Commercial & Tariff)



## **Methodology for arriving at per kVA rates** **(Exhibit AP -4)**

As per clause 4(13) of Electricity (Right of Consumers) Rules, 2020 notified by the Central Government, the electrified areas upto 150kW or such higher load as the Commission may specify shall be fixed on the basis of load, category of connection sought and average cost of connection of the distribution licensee. In compliance to the above, the Distribution Core Committee had been entrusted to submit a methodology for arriving at the per kVA rates. Accordingly, the Distribution Core Committee had submitted a proposal wherein the rates of per kVA was limited to 100kVA being the upper limit for low tension connections in the State. The methodology was to use the past actuals to average out the costs applicable. The same is described below;

The details of service connection during the period from 01.06.2018 to 31.03.2020 were considered for assessing the nominal values (This period eliminates the service connections extended during total electrification mission and those who remitted ECSC at pre revised rates. The details of service connection given during the above period is shown below;

### **i) Service connection**

Consumer Type	Total Count	Single Phase (No)	Three Phase (No)
WP	561841	520292	41549
OH	50063	15422	4641
LE	457	291	166
EC Only	22843	6267	16576
	635204	572272	62932

### **ii) Average length of OH Line**

The average length inclusive of OH and WP (eliminating those requiring Line Extension) for the OH connection provided during the above period were found to be 70 & 80m for Single Phase and Three Phase respectively. Hence deducting an average 30m for the WP Portion the average OH length for the SP and TP comes to 40m and 50m respectively. Hence, the



rate for a single post OH line with 40m and 50m is taken as average of OH connections.

iii) **The Percentage of various combination of WP connections**

The data regarding the various combinations in WP connection for the service connections provided from 01.06.2018 to 31.03.2020. The data indicate that 9% of SP and 22% of TP consumers required additional network components (one or two support poles, Pole insertion with or without stay etc) for providing connections. The percentage arrived for the above is shown below;

Item No	Network Components	Single Phase	Three Phase
1	Without any additional Component	91.00	78.00
2	With one WP support	3.78	9.24
3	With Two WP supports	0.09	0.22
4	PI without Stay -SP	1.62	
5	PI with Stay - SP	0.45	
6	PI with Strut - SP	0.27	
7	PI without Stay -TP	1.62	7.92
8	PI with Stay - TP	0.45	2.20
9	PI with Strut - TP	0.27	1.32
10	PI without Stay - SP + Support	0.18	
11	PI with Stay - SP + Support	0.04	
12	PI With Strut - SP + Support	0.01	
13	PI without Stay - TP + Support	0.18	0.88
14	PI with Stay - TP + Support	0.04	0.18
15	PI With Strut - TP + Support	0.01	0.04

iv) **Rate inclusive of 10% ABC**

Considering the fact that more LT ABC lines are constructed now, it was assumed that a 10% of the connections need to be given from the ABC lines. Accordingly, the weighted average of WP and OH connections with 10% ABC is as shown below

	1phase	3 phase
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weather proof from ABC	3005	5248
weatherproof from Rabbit	2700	4697
weighted average(10% ABC)	<b>2731</b>	<b>4752</b>
OH with max 1 post ABC	18504	46909
OH with max 1 post Rabbit	20196	28909
weighted average(10% ABC)	<b>20027</b>	<b>30709</b>
WP SC 10-25 kW from ABC		18245
WP SC 10-25 kW from Rabbit		17694
weighted average(10% ABC)		<b>17749</b>

Based on the above data and assumptions, the service connection charges for various categories of consumers are arrived as shown below;

**A) Weather proof service connection rates (SP upto 5kW and TP upto 10kW)**

The rates will be per service connection for this category and will be irrespective of connected load. The consumers not requiring overhead line construction/phase line additions comes under this category. The cost of pole insertion, support pole, weather proof etc are built into the rate. The weighted average with 10% ABC rates of weather proof portion which comes to Rs 2731 and 4752 for SP and TP respectively is taken for the calculation. The rate for the network component as per cost data is added with the above WP rate and the corresponding percentage is applied to get the total amount. The same is then divided with 100 to get the rate of single connection. The rate thus arrived is shown below;

Item No	SP%	TP%	Rate of network component	Total rate of network component with WP	Total amount realised	Total rate of network component	Total amount realised
1	91	78		<b>2731</b>	248521	<b>4752</b>	370656
2	3.78	9.24	7547	10278	38850.84	12299	113642.8
3	0.09	0.22	15094	17825	1604.25	19846	4366.12
4	1.62	0	8563	11294	18296.28		0
5	0.45	0	12263	14994	6747.3		0
6	0.27	0	16455	19186	5180.22		0
7	1.62	7.92	9365	12096	19595.52	14117	111806.6
8	0.45	2.2	13065	15796	7108.2	17817	39197.4
9	0.27	1.32	17257	19988	5396.76	22009	29051.88
10	0.18	0	16110	18841	3391.38		0
11	0.036	0	19810	22541	811.476		0
12	0.009	0	24002	26733	240.597		0
13	0.18	0.88	16912	19643	3535.74	21664	19064.32
14	0.036	0.176	20612	23343	840.348	25364	4464.064
15	0.009	0.044	24804	27535	247.815	29556	1300.464
<b>Average Rate</b>				<b>3604</b>		<b>6935</b>	

- 1) Single Phase (upto 5kW) - Rs 3604/- per service connection
- 2) Three Phase (Upto 10kW) - Rs 6935/- per service connection

**B) Overhead service connection rates (SP upto 5kW and TP upto 10kW)**

The rates will be per service connection for this category and irrespective of connected load. The cost of overhead line and weather proof will be factored into the rate based on past average. However, when the distribution mains is more than 200m, extra charges for that portion will be applicable. The weighted average of OH line with 10% ABC as

calculated above comes to Rs 22758/- (20027+2731) for SP and Rs 35461/- (30709+4752) for TP which is taken for the calculation. The rate for the network component as per cost data is added with the above WP rate and the corresponding percentage is applied to get the total amount. The same is then divided with 100 to get the rate of single connection. The rate thus arrived is shown below;

Item No	SP%	TP%	Rate of network component	Total rate of network component with WP	Total amount realised	Total rate of network component	Total amount realised
1	91	78		22758	2070978	35461	2765958
2	3.78	9.24	7547	30305	114552.9	43008	397393.9
3	0.09	0.22	15094	37852	3406.68	50555	11122.1
4	1.62	0	8563	31321	50740.02	44024	0
5	0.45	0	12263	35021	15759.45	47724	0
6	0.27	0	16455	39213	10587.51	51916	0
7	1.62	7.92	9365	32123	52039.26	44826	355021.9
8	0.45	2.2	13065	35823	16120.35	48526	106757.2
9	0.27	1.32	17257	40015	10804.05	52718	69587.76
10	0.18	0	16110	38868	6996.24	51571	0
11	0.036	0	19810	42568	1532.448	55271	0
12	0.009	0	24002	46760	420.84	59463	0
13	0.18	0.88	16912	39670	7140.6	52373	46088.24
14	0.036	0.176	20612	43370	1561.32	56073	9868.848
15	0.009	0.044	24804	47562	428.058	60265	2651.66
<b>Average Rate</b>					<b>23631</b>		<b>37644</b>

- i) Single phase (upto 5kW) – Rs 23631/- per service connection
- ii) Three phase (upto 10kW)- Rs 37,644/- per service connection

Note: When the existing distribution mains is more than 200m away from the consumer premises, charges for that portion in excess of 200m will also be applicable

**C) Service connection for LT consumers having connected load above 10kW with or without line construction**

The rates will be applicable to consumers having connected load/contract demand above 10kW and not exceeding 100kVA with or without line construction. The cost of overhead line construction and weather proof portion is factored into the rates based on past averages. However, when the distribution mains is more than 200m, extra charges for that portion will be applicable. The rates for the above category will be arrived based on the following factors;

- i) Minimum fixed rate applicable for weatherproof portion, which will be an amount per service connection. The cost of pole insertion, support pole etc along with the weighted average cost of service connection with ABC for connected load of 10 to 25kW is built into the rate as shown below;

Item No	TP		TP Amount	
1	78		17749	1384422
2	9.24	7547	25296	233735
3	0.22	15094	32843	7225.46
4	0	8563	26312	0
5	0	12263	30012	0
6	0	16455	34204	0
7	7.92	9365	27114	214742.9
8	2.2	13065	30814	67790.8
9	1.32	17257	35006	46207.92
10	0	16110	33859	0
11	0	19810	37559	0
12	0	24002	41751	0
13	0.88	16912	34661	30501.68
14	0.176	20612	38361	6751.536
15	0.044	24804	42553	1872.332
Average Rate				<b>19932</b>

- ii) Incremental rate applicable for WP portion for increasing connected load. The ECSC rates for connection for different slabs like 10 to 25kW, 25kW to 50kW and 50kW to 100kVA are taken into account. To account the difference of rate given to connected load above

25kW, the difference of rate arrived is divided with 75kVA and pf to arrive at the per kVA rates for the incremental load.

Particulars	Category	Amount
ECSC up to 25 kW	11 to 25	17978
ECSC up to 50 kVA	26 to 50	24230
ECES up to 100 kVA	51 to 100	25734

The incremental rate =  $(25734-17978)/(100-(25/0.95)) = 105$  per kVA

- iii) Incremental rate for loading cost of DTR and OH portion  
The rates corresponding to the installation of 100kVA transformer and OH portion is factored in the above rates. The cost of installation of 100kVA transformer is taken as shown below;

Item	Qty	Rate	Amount
100kVA DTR	1 No	557927	557927
HT Stay set	4No	4386	17544
HT Line	75m	1090	81750
LT line	50m	681	34050
Total			691271

\* 10% ABC component is catered in the rate arrived for HT/LT line  
The data regarding the total DTR capacity addition from May 2018 to March 2021 had been taken and was found to be 4,42,413kVA and the connected load added during the above period was found to be 23,57,766kW (24,81,859kVA) Hence, it can be concluded that for every kVA addition in DTR capacity can cater 5.329kVA of connected load  $(2357766/442413)$ . Thus the loading of 100kVA DTR component will be Rs  $(691271/532.93)$  which comes to Rs 1297.11

Adding both the incremental rate corresponding to WP portion above 25kW and the transformer portion, it can be taken as  $(Rs\ 105/- + Rs\ 1297.11) =$  approx. Rs 1400/-. Accordingly, the rates for service connection having load above 10kW with or without line construction is shown below;

Rs 19932/- (base rate)+ Rs 1400/kW of connected load above 10kW, but will be subject to a minimum of Rs 37644/- (the rate applicable to TP SC upto and including 10kW as above)

Note: When the existing distribution mains is more than 200m away from the consumer premises charges for that portion in excess of 200m will also be applicable

For contract demand consumers, the rates are to be realized based on their Contract Demand. For collecting per kVA rates from other consumers, a pf of 0.9 (as approved by the Hon'ble Commission) can be taken for conversion of their load from kW to kVA.

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

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

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 1x 230V Class 1.0 5-30A Static LCD with ToD(DLMS Compliant)	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Cable 1.1kV PVC Insulated AL Twin Core 2.5 Sq.mm PVC Sheathed Weather Proof (TC Weather Proof Wire 1/1.8)	9.00	m	40	360.00
4	GI Wire 9 SWG	81.00	kg	3.5	283.50
5	Cable Tie UV Plastic Heavy Duty 250 mm Length	3.00	E	10	30.00
Material Total					683.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one single phase WP service connection including conveyance of materials, fixing meter, drawing WP wire, with GI support wire etc. as per standards.	1733.36	No	1	1733.36
Labour Total					1733.36
Centage Charge					109.36
Overhead Charge					173.34
Total Estimate Amount					2699.56
Estimate Amount in figures : Rs. 2,700					
Estimate Amount in words : Rupees Two thousand Seven hundred					



**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : LT three phase weather proof service connection up to and including 10 KW ( using static meter with LCD display and TOD facility)

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Cable 1.1kV PVC Insulated AL Twin Core 6 Sq.mm PVC Sheathed Weather Proof (TC Weather Proof Wire 1/2.8)	16.00	m	80	1280.00
4	GI Wire 9 SWG	81.00	kg	3.5	283.50
5	Cable Tie UV Plastic Heavy Duty 250 mm Length	3.00	E	10	30.00
Material Total					1603.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (upto 10kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2579.14	No	1	2579.14
Labour Total					2579.14
Centage Charge					256.56
Overhead Charge					257.91
Total Estimate Amount					4697.11
Estimate Amount in figures : Rs. 4,697					
Estimate Amount in words : Rupees Four thousand Six hundred and Ninety Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** LT three phase weather proof service connection above 10kW upto and including 25kW ( using static meter with LCD display and TOD facility)

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	4	24.00
4	Cable 1.1kV PVC AL 1c x 50 sq mm (Un Armoured)	64.00	m	160	10240.00
5	GI Wire 9 SWG	81.00	kg	3.5	283.50
6	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
Material Total					12707.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (above 10kW to 25kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2684.73	No	1	2684.73
Labour Total					2684.73
Centage Charge					2033.20
Overhead Charge					268.47
Total Estimate Amount					17693.90
Estimate Amount in figures : Rs. 17,694					
Estimate Amount in words : Rupees Seventeen thousand Six hundred and Ninety Four					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : LT three phase weather proof service connection above 25kW & below 50kVA

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	4	44.00
5	Cable 1.1kV XLPE AL 1c X 95 sq mm (Un Armoured)	91.00	m	160	14560.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
Material Total					17067.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
Labour Total					3770.95
Centage Charge					2730.80
Overhead Charge					377.10
Total Estimate Amount					23946.35
Estimate Amount in figures : Rs. 23,946					
Estimate Amount in words : Rupees Twenty Three thousand Nine hundred and Forty Six					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

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

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415kV 5VA Class 0.5S 150/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
5	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	160	15840.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
Material Total					18363.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
Labour Total					3770.95
Centage Charge					2938.16
Overhead Charge					377.10
Total Estimate Amount					25449.71
Estimate Amount in figures : Rs. 25,450					
Estimate Amount in words : Rupees Twenty Five thousand Four hundred and Fifty					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Providing support pole for weather proof service connection.

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	1	3364.18
2	Service Clamp	100.00	E	1	100.00
Material Total					3464.18
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Providing WP support with PSC pole including digging & back filling pit in ordinary soil. excluding transportation of poles.	1943.50	No	1	1943.50
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
3	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					3207.89
Centage Charge					554.27
Overhead Charge					320.79
Total Estimate Amount					7547.13
Estimate Amount in figures : Rs. 7,547					
Estimate Amount in words : Rupees Seven thousand Five hundred and Forty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT single phase over head service connection upto and including 50m with max. 1 Post**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	4	248.00
2	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	2	1041.82
3	Conductor ACSR Rabbit	42.00	m	10.5	441.00
4	Pole PSC 8 M	3364.18	E	1	3364.18
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	3	153.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
10	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
11	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
12	STAY TIGHTNER LT	251.00	E	1	251.00
13	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
14	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
15	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
16	Helically formed Guy-Grip LT	140.00	E	6	840.00
Material Total					7833.99
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 2 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	140.09	No	1	140.09
2	Constructing one span single phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of poles.	2696.23	No	1	2696.23
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
4	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	3	263.46
5	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
7	Transporting poles by hired vehicle to a distance upto 5km and	3142.26	Trip	0.25	785.57

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	carrying upto 4 numbers of poles excluding loading& unloading charges.				
Labour Total					6389.22
Centage Charge					1253.44
Overhead Charge					638.92
Total Estimate Amount					16115.57
Estimate Amount in figures : Rs. 16,116					
Estimate Amount in words : Rupees Sixteen thousand One hundred and Sixteen					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT single phase over head service connection above 50 m upto and including 100 m with max. 2 Posts**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	105	4410.00
2	Pole PSC 8 M	3364.18	E	2	6728.36
3	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	4	248.00
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	3	1562.73
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	6	306.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	1	61.00
10	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
11	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	2	108.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
13	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
15	STAY TIGHTNER LT	251.00	E	2	502.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
19	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					18347.07
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Constructing one span single phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of poles.	2696.23	No	2	5392.46
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	2	957.64
3	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	6	526.92
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
5	Fitting one LT 2 line cross arm on HT or LT existing poles including	140.09	No	1	140.09



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	fitting insulators and binding the same with LT Line.				
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
7	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
				Labour Total	11552.11
				Centage Charge	2935.53
				Overhead Charge	1155.20
				Total Estimate Amount	33989.91
Estimate Amount in figures : Rs. 33,990					
Estimate Amount in words : Rupees Thirty Three thousand Nine hundred and Ninety					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT single phase over head service connection above 100m up to and including 150m with max. 3 Posts**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	210	8820.00
2	Pole PSC 8 M	3364.18	E	3	10092.54
3	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	4	248.00
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	4	2083.64
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	9	459.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	2	122.00
10	Reel Insulator Porcelain 415/240 V	38.00	No	2	76.00
11	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
13	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
15	STAY TIGHTNER LT	251.00	E	2	502.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
19	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					27002.16
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Constructing one span single phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of poles.	2696.23	No	3	8088.69
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	3	1436.46
3	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	9	790.38
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
5	Fitting one LT 2 line cross arm on HT or LT existing poles including	140.09	No	1	140.09

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	fitting insulators and binding the same with LT Line.				
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
7	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.75	2356.70
				Labour Total	15776.19
				Centage Charge	4320.35
				Overhead Charge	1577.61
				Total Estimate Amount	48676.31
Estimate Amount in figures : Rs. 48,676					
Estimate Amount in words : Rupees Forty Eight thousand Six hundred and Seventy Six					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT single phase over head service connection above 150m up to and including 200m with max. 4 Posts**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	315	13230.00
2	Pole PSC 8 M	3364.18	E	4	13456.72
3	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	4	248.00
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	5	2604.55
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	12	612.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
10	Reel Insulator Porcelain 415/240 V	38.00	No	3	114.00
11	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	6	324.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
13	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
15	STAY TIGHTNER LT	251.00	E	2	502.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
19	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					35657.25
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Constructing one span single phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of poles.	2696.23	No	4	10784.92
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	4	1915.28
3	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	12	1053.84
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
5	Fitting one LT 2 line cross arm on HT or LT existing poles including	140.09	No	1	140.09

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	fitting insulators and binding the same with LT Line.				
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
7	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	1	3142.26
				Labour Total	20000.26
				Centage Charge	5705.16
				Overhead Charge	2000.02
				Total Estimate Amount	63362.69
Estimate Amount in figures : Rs. 63,363					
Estimate Amount in words : Rupees Sixty Three thousand Three hundred and Sixty Three					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT three phase over head service connection upto and including 50m with max. 1 Post**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	8	496.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	2	1649.48
3	Conductor ACSR Rabbit	42.00	m	21	882.00
4	Pole PSC 8 M	3364.18	E	1	3364.18
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	Spacer LT 4 Line - 450 mm composite	122.00	E	3	366.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
10	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
11	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
12	STAY TIGHTNER LT	251.00	E	1	251.00
13	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
14	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
15	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
16	Helically formed Guy-Grip LT	140.00	E	6	840.00
Material Total					9343.65
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 4 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	210.14	No	1	210.14
2	Constructing one span three phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of pole.	3296.32	No	1	3296.32
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
5	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	3	313.65
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
7	Transporting poles by hired vehicle to a distance upto 5km and	3142.26	Trip	0.25	785.57

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	carrying upto 4 numbers of poles excluding loading& unloading charges.				
				Labour Total	7109.55
				Centage Charge	1494.99
				Overhead Charge	710.95
				Total Estimate Amount	18659.14
Estimate Amount in figures : Rs. 18,659					
Estimate Amount in words : Rupees Eighteen thousand Six hundred and Fifty Nine					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT three phase over head service connection above 50m upto and including 100m with max. 2 Posts**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	8	496.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	3	2474.22
3	Conductor ACSR Rabbit	42.00	m	210	8820.00
4	Pole PSC 8 M	3364.18	E	2	6728.36
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	Spacer LT 4 Line - 450 mm composite	122.00	E	6	732.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
10	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
11	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
13	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
15	STAY TIGHTNER LT	251.00	E	2	502.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
19	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					24572.56
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 4 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	210.14	No	1	210.14
2	Constructing one span three phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of pole.	3296.32	No	2	6592.64
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	2	957.64
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
5	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	6	627.30
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
7	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
				Labour Total	12922.72
				Centage Charge	3931.62
				Overhead Charge	1292.26
				Total Estimate Amount	42719.16
Estimate Amount in figures : Rs. 42,719					
Estimate Amount in words : Rupees Forty Two thousand Seven hundred and Nineteen					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT three phase over head service connection above 100m up to and including 150m with max. 3 Posts**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	8	496.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	4	3298.96
3	Conductor ACSR Rabbit	42.00	m	420	17640.00
4	Pole PSC 8 M	3364.18	E	3	10092.54
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	Spacer LT 4 Line - 450 mm composite	122.00	E	9	1098.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	6	366.00
10	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	8	432.00
11	Reel Insulator Porcelain 415/240 V	38.00	No	2	76.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
13	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
15	STAY TIGHTNER LT	251.00	E	2	502.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
19	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					38384.48
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 4 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	210.14	No	1	210.14
2	Constructing one span three phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of pole.	3296.32	No	3	9888.96
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	3	1436.46
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
5	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	9	940.95
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
7	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.75	2356.70
				Labour Total	17797.08
				Centage Charge	6141.52
				Overhead Charge	1779.70
				Total Estimate Amount	64102.78
Estimate Amount in figures : Rs. 64,103					
Estimate Amount in words : Rupees Sixty Four thousand One hundred and Three					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : LT three phase over head service connection above 150m up to and including 200m with max. 4 Posts**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	8	496.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	5	4123.70
3	Conductor ACSR Rabbit	42.00	m	630	26460.00
4	Pole PSC 8 M	3364.18	E	4	13456.72
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
6	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
7	Spacer LT 4 Line - 450 mm composite	122.00	E	12	1464.00
8	GI Wire 8 SWG	67.00	kg	1	67.00
9	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	9	549.00
10	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	12	648.00
11	Reel Insulator Porcelain 415/240 V	38.00	No	3	114.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
13	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
15	STAY TIGHTNER LT	251.00	E	2	502.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
19	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					52196.40
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 4 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	210.14	No	1	210.14
2	Constructing one span three phase OH line for giving service connection using PSC pole without stay/strut including digging & back filling pit in ordinary soil, cutting and removing tree branches, excluding WP portion and transportation of pole.	3296.32	No	4	13185.28
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	4	1915.28
4	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
5	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	12	1254.60
6	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	1	3142.26
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
				Labour Total	22671.43
				Centage Charge	8351.43
				Overhead Charge	2267.14
				Total Estimate Amount	85486.40
Estimate Amount in figures : Rs. 85,486					
Estimate Amount in words : Rupees Eighty Five thousand Four hundred and Eighty Six					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : post insertion for LT single phase over head line (without stay)**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	1	3364.18
2	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	1	61.00
3	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	2	108.00
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	1	520.91
5	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
Material Total					4092.09
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Insertion of one LT PSC pole in existing single phase OH line including digging & back filling pit in ordinary soil, fitting cross arm, insulator, binding etc. excluding transportation of poles.	2204.86	No	1	2204.86
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
3	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					3469.25
Centage Charge					654.73
Overhead Charge					346.93
Total Estimate Amount					8563.00
Estimate Amount in figures : Rs. 8,563					
Estimate Amount in words : Rupees Eight thousand Five hundred and Sixty Three					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : post insertion for LT single phase over head line (with stay)**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	1	3364.18
2	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	1	61.00
3	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	2	108.00
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	1	520.91
5	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
6	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
7	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
8	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
9	STAY TIGHTNER LT	251.00	E	1	251.00
10	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
11	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
12	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
13	Helically formed Guy-Grip LT	140.00	E	6	840.00
Material Total					6391.08
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Insertion of one LT PSC pole in existing single phase OH line including digging & back filling pit in ordinary soil, fitting cross arm, insulator, binding etc. excluding transportation of poles.	2204.86	No	1	2204.86
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
3	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					4408.07
Centage Charge					1022.57
Overhead Charge					440.81
Total Estimate Amount					12262.53
Estimate Amount in figures : Rs. 12,263					
Estimate Amount in words : Rupees Twelve thousand Two hundred and Sixty Three					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : post insertion for LT single phase over head line (with strut)**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	2	6728.36
2	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	1	61.00
3	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	2	108.00
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	1	520.91
5	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
6	Clamp GI For 8 mt Strut Pole (For Pole)	103.25	E	2	206.50
7	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.33	37.95
8	Clamp GI For 8 mt Strut Pole (For Strut)	103.25	No	2	206.50
Material Total					7907.22
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Insertion of one LT PSC pole in existing single phase OH line including digging & back filling pit in ordinary soil, fitting cross arm, insulator, binding etc. excluding transportation of poles.	2204.86	No	1	2204.86
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	2	957.64
3	Providing Strut using LT PSC pole including digging and back filling pit in ordinary soil.	1887.05	No	1	1887.05
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
Labour Total					6620.68
Centage Charge					1265.15
Overhead Charge					662.07
Total Estimate Amount					16455.12
Estimate Amount in figures : Rs. 16,455					
Estimate Amount in words : Rupees Sixteen thousand Four hundred and Fifty Five					



**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for post insertion for LT three phase over head line (without stay)

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	1	3364.18
2	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
3	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
4	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	1	824.74
5	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
Material Total					4625.92
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Insertion of one LT PSC pole in existing three phase OH line including digging & back filling pit in ordinary soil, fitting cross arm, insulator, binding etc. excluding transportation of poles.	2371.09	No	1	2371.09
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
3	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					3635.48
Centage Charge					740.15
Overhead Charge					363.55
Total Estimate Amount					9365.10
Estimate Amount in figures : Rs. 9,365					
Estimate Amount in words : Rupees Nine thousand Three hundred and Sixty Five					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : post insertion for LT three phase over head line (with stay)

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	1	3364.18
2	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
3	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
4	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	1	824.74
5	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
6	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
7	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
8	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
9	STAY TIGHTNER LT	251.00	E	1	251.00
10	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
11	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
12	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
13	Helically formed Guy-Grip LT	140.00	E	6	840.00
Material Total					6924.91
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Insertion of one LT PSC pole in existing three phase OH line including digging & back filling pit in ordinary soil, fitting cross arm, insulator, binding etc. excluding transportation of poles.	2371.09	No	1	2371.09
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
3	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					4574.30
Centage Charge					1107.99
Overhead Charge					457.43
Total Estimate Amount					13064.63
Estimate Amount in figures : Rs. 13,065					
Estimate Amount in words : Rupees Thirteen thousand and Sixty Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : post insertion for LT three phase over head line (with strut)**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	2	6728.36
2	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
3	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
4	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	1	824.74
5	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
6	Clamp GI For 8 mt Strut Pole (For Pole)	103.25	E	2	206.50
7	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.33	37.95
8	Clamp GI For 8 mt Strut Pole (For Strut)	103.25	No	2	206.50
Material Total					8441.05
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Insertion of one LT PSC pole in existing three phase OH line including digging & back filling pit in ordinary soil, fitting cross arm, insulator, binding etc. excluding transportation of poles.	2371.09	No	1	2371.09
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	2	957.64
3	Providing Strut using LT PSC pole including digging and back filling pit in ordinary soil.	1887.05	No	1	1887.05
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
Labour Total					6786.91
Centage Charge					1350.57
Overhead Charge					678.69
Total Estimate Amount					17257.22
Estimate Amount in figures : Rs. 17,257					
Estimate Amount in words : Rupees Seventeen thousand Two hundred and Fifty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with connected load upto and including 10kW

**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Cable 1.1kV PVC Insulated AL Twin Core 6 Sq.mm PVC Sheathed Weather Proof (TC Weather Proof Wire 1/2.8)	16.00	m	80	1280.00
4	GI Wire 9 SWG	81.00	kg	3.5	283.50
5	Cable Tie UV Plastic Heavy Duty 250 mm Length	3.00	E	10	30.00
6	EM 1X230V CLASS 1.0 5- 30A Static	0.00	E	-1	0.00
7	PVC Scrap	1.00	kg	-1	-1.00
Material Total					1602.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (upto 10kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2579.14	No	1	2579.14
2	Dismantling single phase WP service connection with meter & all accessories and bringing back to section store.	866.68	No	1	866.68
Labour Total					3445.82
Centage Charge					256.40
Overhead Charge					344.58
Total Estimate Amount					5649.30
Estimate Amount in figures : Rs. 5,649					
Estimate Amount in words : Rupees Five thousand Six hundred and Forty Nine					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : 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

**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	4	24.00
4	Cable 1.1kV PVC AL 1c x 50 sq mm (Un Armoured)	64.00	m	160	10240.00
5	GI Wire 9 SWG	81.00	kg	3.5	283.50
6	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
7	EM 1X230V CLASS 1.0 5- 30A Static	0.00	E	-1	0.00
8	PVC Scrap	1.00	kg	-1	-1.00
Material Total					12706.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (above 10kW to 25kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2684.73	No	1	2684.73
2	Dismantling single phase WP service connection with meter & all accessories and bringing back to section store.	866.68	No	1	866.68
Labour Total					3551.41
Centage Charge					2033.04
Overhead Charge					355.14
Total Estimate Amount					18646.09
Estimate Amount in figures : Rs. 18,646					
Estimate Amount in words : Rupees Eighteen thousand Six hundred and Forty Six					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : conversion of LT single phase weatherproof service connection to LT three phase weather proof service connection with load above 25kW and below 50kVA

**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	4	44.00
5	Cable 1.1kV XLPE AL 1c X 95 sq mm (Un Armoured)	91.00	m	160	14560.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	EM 1X230V CLASS 1.0 5- 30A Static	0.00	E	-1	0.00
9	PVC Scrap	1.00	kg	-1	-1.00
Material Total					17066.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling single phase WP service connection with meter & all accessories and bringing back to section store.	866.68	No	1	866.68
Labour Total					4637.63
Centage Charge					2730.64
Overhead Charge					463.77
Total Estimate Amount					24898.54
Estimate Amount in figures : Rs. 24,899					
Estimate Amount in words : Rupees Twenty Four thousand Eight hundred and Ninety Nine					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : 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

**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415kV 5VA Class 0.5S 150/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
5	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	160	15840.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	EM 1X230V CLASS 1.0 5- 30A Static	0.00	E	-1	0.00
9	PVC Scrap	1.00	kg	-1	-1.00
Material Total					18362.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling single phase WP service connection with meter & all accessories and bringing back to section store.	866.68	No	1	866.68
Labour Total					4637.63
Centage Charge					2938.00
Overhead Charge					463.77
Total Estimate Amount					26401.90
Estimate Amount in figures : Rs. 26,402					
Estimate Amount in words : Rupees Twenty Six thousand Four hundred and Two					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for enhancement of connected load of LT three phase weather proof service connection with a max. load of 10kW into the range of 10 kW to 25 kW.

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	4	24.00
4	Cable 1.1kV PVC AL 1c x 50 sq mm (Un Armoured)	64.00	m	160	10240.00
5	GI Wire 9 SWG	81.00	kg	3.5	283.50
6	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
7	EM 3X 230V CLASS 0.5 10-60A Static	0.00	E	-1	0.00
8	PVC Scrap	1.00	kg	-2	-2.00
Material Total					12705.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (above 10kW to 25kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2684.73	No	1	2684.73
2	Dismantling three phase WP service connection with meter & all accessories and bringing back to section store.	1290.09	No	1	1290.09
Labour Total					3974.82
Centage Charge					2032.88
Overhead Charge					397.48
Total Estimate Amount					19110.68
Estimate Amount in figures : Rs. 19,111					
Estimate Amount in words : Rupees Nineteen thousand One hundred and Eleven					



**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** 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 to 50 kVA.

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	4	44.00
5	Cable 1.1kV XLPE AL 1c X 95 sq mm (Un Armoured)	91.00	m	160	14560.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	EM 3X 230V CLASS 0.5 10-60A Static	0.00	E	-1	0.00
9	PVC Scrap	1.00	kg	-2	-2.00
Material Total					17065.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling three phase WP service connection with meter & all accessories and bringing back to section store.	1290.09	No	1	1290.09
Labour Total					5061.04
Centage Charge					2730.48
Overhead Charge					506.11
Total Estimate Amount					25363.13
Estimate Amount in figures : Rs. 25,363					
Estimate Amount in words : Rupees Twenty Five thousand Three hundred and Sixty Three					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for enhancement of connected load of LT three phase service connection with a maximum connected load of 10 kW into the range of 50 kVA to 100 kVA .

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415kV 5VA Class 0.5S 150/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
5	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	160	15840.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	EM 3X 230V CLASS 0.5 10-60A Static	0.00	E	-1	0.00
9	PVC Scrap	1.00	kg	-2	-2.00
Material Total					18361.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling three phase WP service connection with meter & all accessories and bringing back to section store.	1290.09	No	1	1290.09
Labour Total					5061.04
Centage Charge					2937.84
Overhead Charge					506.11
Total Estimate Amount					26866.49
Estimate Amount in figures : Rs. 26,866					
Estimate Amount in words : Rupees Twenty Six thousand Eight hundred and Sixty Six					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for enhancement of connected load of LT three phase service connection with load in the range of 10kW - 25 kW into the range 25 kW - 50kVA

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	4	0.00
2	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	-3	0.00
3	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
4	Poly Carbonate Seal	5.00	E	6	30.00
5	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	4	44.00
6	Cable 1.1kV XLPE AL 1c X 95 sq mm (Un Armoured)	91.00	m	160	14560.00
7	GI Wire 9 SWG	81.00	kg	3.5	283.50
8	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
9	EM 3X 230V CLASS 0.5S --/5A Static	0.00	E	-1	0.00
10	Cable 1.1kV PVC AL 1c x 50 sq mm (Un Armoured)	32.00	m	-140	-4480.00
Material Total					12587.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling three phase CT connected WP service connection with metering equipments & all other accessories and bringing back to section store.	1676.91	No	1	1676.91
Labour Total					5447.86
Centage Charge					2014.00
Overhead Charge					544.79
Total Estimate Amount					20594.15
Estimate Amount in figures : Rs. 20,594					
Estimate Amount in words : Rupees Twenty thousand Five hundred and Ninety Four					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for enhancement of connected load of LT three Phase service connection with load in the range of 10kW - 25 kW into the range of 50 kVA -100 kVA

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415kV 5VA Class 0.5S 150/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
5	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	160	15840.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	-3	0.00
9	EM 3X 230V CLASS 0.5S --/5A Static	0.00	E	-1	0.00
10	Cable 1.1kV PVC AL 1c x 50 sq mm (Un Armoured)	32.00	m	-140	-4480.00
Material Total					13883.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling three phase CT connected WP service connection with metering equipments & all other accessories and bringing back to section store.	1676.91	No	1	1676.91
Labour Total					5447.86
Centage Charge					2221.36
Overhead Charge					544.79
Total Estimate Amount					22097.51
Estimate Amount in figures : Rs. 22,098					
Estimate Amount in words : Rupees Twenty Two thousand and Ninety Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for enhancement of connected load of LT three Phase service connection with load in the range of 25kW - 50 kVA into the range of 50 kVA -100 kVA

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415kV 5VA Class 0.5S 150/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	-1	0.00
4	Poly Carbonate Seal	5.00	E	6	30.00
5	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
6	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	160	15840.00
7	GI Wire 9 SWG	81.00	kg	3.5	283.50
8	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
9	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	-4	0.00
10	Cable 1.1kV XLPE AL 1c X 95 sq mm (Un Armoured)	45.50	m	-140	-6370.00
Material Total					11993.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Dismantling three phase CT connected WP service connection with metering equipments & all other accessories and bringing back to section store.	1676.91	No	1	1676.91
Labour Total					5447.86
Centage Charge					1918.96
Overhead Charge					544.79
Total Estimate Amount					19905.11
Estimate Amount in figures : Rs. 19,905					
Estimate Amount in words : Rupees Nineteen thousand Nine hundred and Five					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for Shifting Single Phase Energy Meters

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Poly Carbonate Seal	5.00	E	2	10.00
Material Total					10.00
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Shifting one No. single phase service connection 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.	825.91	No	1	825.91
Labour Total					825.91
Centage Charge					1.60
Overhead Charge					82.59
Total Estimate Amount					920.10
Estimate Amount in figures : Rs. 920					
Estimate Amount in words : Rupees Nine hundred and Twenty					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for Shifting Three Phase EnergyMeters

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Poly Carbonate Seal	5.00	E	2	10.00
Material Total					10.00
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Shifting one No. three phase service connection 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.	1086.23	No	1	1086.23
Labour Total					1086.23
Centage Charge					1.60
Overhead Charge					108.62
Total Estimate Amount					1206.45
Estimate Amount in figures : Rs. 1,206					
Estimate Amount in words : Rupees One thousand Two hundred and Six					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for Shifting Three Phase CT Meters

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Poly Carbonate Seal	5.00	E	4	20.00
Material Total					20.00
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Shifting one No. three phase service connection metering equipment (CT connected) 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.	1628.82	No	1	1628.82
Labour Total					1628.82
Centage Charge					3.20
Overhead Charge					162.88
Total Estimate Amount					1814.90
Estimate Amount in figures : Rs. 1,815					
Estimate Amount in words : Rupees One thousand Eight hundred and Fifteen					



**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Estimate for HT pole insertion in HT/LT line (with stay )**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 9 M	3908.00	E	1	3908.00
2	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	3	468.00
3	GI WIRE 6MM DIA 4 SWG	93.00	kg	4	372.00
4	V cross arm GI 11 kV	1211.44	E	1	1211.44
5	Clamp GI for 11kV line V cross arm	190.94	E	1	190.94
6	Pole Top Bracket -F Type GI -11 kV	154.00	E	1	154.00
7	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	0.4	46.00
8	Bolt& Nut GI FT M 16 x 75	115.00	kg	0.42	48.30
9	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	3	108.00
10	Stay Insulator Porcelain 11k V	40.00	E	1	40.00
11	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI))	572.00	E	1	572.00
12	STAY TIGHTNER HT	395.00	E	1	395.00
13	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	5	400.00
14	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	1	405.00
15	Helically formed Guy-Grip HT	91.00	E	6	546.00
16	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
17	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
18	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
19	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	1	824.74
20	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
Material Total					10246.42
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting and erecting one HT PSC Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	3274.36	No	1	3274.36
2	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	1	762.14
3	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	1	1373.73
4	Transporting poles by hired vehicle to a distance upto 5km and	3142.26	Trip	0.25	785.57

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	carrying upto 4 numbers of poles excluding loading& unloading charges.				
				Labour Total	6195.80
				Centage Charge	1639.43
				Overhead Charge	619.58
				Total Estimate Amount	18701.23
Estimate Amount in figures : Rs. 18,701					
Estimate Amount in words : Rupees Eighteen thousand Seven hundred and One					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Estimate for HT pole insertion in HT/LT line (with strut using 8m pole )**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 9 M	3908.00	E	1	3908.00
2	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	3	468.00
3	GI WIRE 6MM DIA 4 SWG	93.00	kg	4	372.00
4	V cross arm GI 11 kV	1211.44	E	1	1211.44
5	Clamp GI for 11kV line V cross arm	190.94	E	1	190.94
6	Pole Top Bracket -F Type GI -11 kV	154.00	E	1	154.00
7	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	0.4	46.00
8	Bolt& Nut GI FT M 16 x 75	115.00	kg	0.42	48.30
9	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	3	108.00
10	Pole PSC 8 M	3364.18	E	1	3364.18
11	Clamp GI For 8 mt Strut Pole (For Pole)	103.25	E	2	206.50
12	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.33	37.95
13	Clamp GI For 8 mt Strut Pole (For Strut)	103.25	No	2	206.50
14	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	3	183.00
15	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	4	216.00
16	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	1	824.74
17	Reel Insulator Porcelain 415/240 V	38.00	No	1	38.00
Material Total					11583.55
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting and erecting one HT PSC Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	3274.36	No	1	3274.36
2	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	1	762.14
3	Providing Strut using LT PSC pole including digging and back filling pit in ordinary soil.	1887.05	No	1	1887.05
4	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
5	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
Labour Total					7973.50

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
				Centage Charge	1853.37
				Overhead Charge	797.35
				Total Estimate Amount	22207.77
Estimate Amount in figures : Rs. 22,208					
Estimate Amount in words : Rupees Twenty Two thousand Two hundred and Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Providing strut using LT pole

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	1	3364.18
2	Clamp GI For 8 mt Strut Pole (For Pole)	103.25	E	2	206.50
3	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.33	37.95
4	Clamp GI For 8 mt Strut Pole (For Strut)	103.25	No	2	206.50
Material Total					3815.13
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Providing Strut using LT PSC pole including digging and back filling pit in ordinary soil.	1887.05	No	1	1887.05
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
3	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					3151.44
Centage Charge					610.42
Overhead Charge					315.15
Total Estimate Amount					7892.14
Estimate Amount in figures : Rs. 7,892					
Estimate Amount in words : Rupees Seven thousand Eight hundred and Ninety Two					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Providing strut using HT pole

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 9 M	3908.00	E	1	3908.00
2	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.33	37.95
3	Clamp GI For 9 mt Strut Pole (For Pole)	110.55	E	2	221.10
4	Clamp GI For 9 mt Strut Pole (For Strut)	110.00	E	2	220.00
Material Total					4387.05
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting and providing one Strut using HT PSC pole including digging and back filling pit in ordinary soil.	3056.91	No	1	3056.91
2	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	1	762.14
3	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
Labour Total					4604.62
Centage Charge					701.93
Overhead Charge					460.47
Total Estimate Amount					10154.07
Estimate Amount in figures : Rs. 10,154					
Estimate Amount in words : Rupees Ten thousand One hundred and Fifty Four					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Providing LT stay

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
2	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
3	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
4	STAY TIGHTNER LT	251.00	E	1	251.00
5	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
6	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
7	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
8	Helically formed Guy-Grip LT	140.00	E	6	840.00
Material Total					2298.99
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
Labour Total					938.82
Centage Charge					367.84
Overhead Charge					93.88
Total Estimate Amount					3699.53
Estimate Amount in figures : Rs. 3,700					
Estimate Amount in words : Rupees Three thousand Seven hundred					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Providing HT stay

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stay Insulator Porcelain 11k V	40.00	E	1	40.00
2	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI)	572.00	E	1	572.00
3	STAY TIGHTNER HT	395.00	E	1	395.00
4	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	5	400.00
5	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	1	405.00
6	Helically formed Guy-Grip HT	91.00	E	6	546.00
7	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
Material Total					2478.00
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	1	1373.73
Labour Total					1373.73
Centage Charge					396.48
Overhead Charge					137.37
Total Estimate Amount					4385.58
Estimate Amount in figures : Rs. 4,386					
Estimate Amount in words : Rupees Four thousand Three hundred and Eighty Six					



**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Adding one conductor (ACSR Rabbit) on the existing poles (where cross arm is not available) inclusive of cost of pin, insulator etc.

**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	14	868.00
2	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	31	16148.21
3	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	23	1403.00
4	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	23	1242.00
5	Conductor ACSR Rabbit	42.00	m	1050	44100.00
Material Total					63761.21
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. for one km additional conductor (ACSR Rabbit) on existing LT line (where realignment of existing conductor is not required) including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	7665.27	km	1	7665.27
Labour Total					7665.27
Centage Charge					10201.79
Overhead Charge					766.53
Total Estimate Amount					82394.80
Estimate Amount in figures : Rs. 82,395					
Estimate Amount in words : Rupees Eighty Two thousand Three hundred and Ninety Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Conversion of LT single phase 2 wire line to LT Three phase 4 wire line (per kilometer)**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	2100	88200.00
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	26	1612.00
3	CROSS ARM 2 LINE SET(WITH CLAMP BOLT&NUT)	260.46	Set	-30	-7813.66
4	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	30	24742.20
5	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	46	2806.00
6	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	48	4752.00
7	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	8	120.00
8	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	3	1242.00
9	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
10	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	4	860.00
11	COMPOSITE LINE SPACERS-4LINE(300mm)	83.00	E	100	8300.00
Material Total					126342.54
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conversion of one km LT single phase 2 wire line to LT three phase 4 wire line including dismantling the existing 2 conductors, stringing 4 ACSR Rabbit conductor including conveyance of materials.	38241.68	km	1	38241.68
2	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	4	961.80
3	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
Labour Total					49658.48
Centage Charge					20214.80
Overhead Charge					4965.85
Total Estimate Amount					201181.67
Estimate Amount in figures : Rs. 201,182					
Estimate Amount in words : Rupees Two lakh One thousand One hundred and Eighty Two					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Conversion of LT single phase 2 wire line to LT Three phase 5 wire line

**UNIT :** kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	3150	132300.00
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	39	2418.00
3	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	30	24742.20
4	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	69	4209.00
5	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	115	6210.00
6	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	48	4752.00
7	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	8	120.00
8	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	3	1242.00
9	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
10	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	4	860.00
11	COMPOSITE LINE SPACERS-4LINE(300mm)	83.00	E	100	8300.00
12	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					191775.20
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. for one km additional conductor (ACSR Rabbit) on existing LT line (where realignment of existing conductor is not required) including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	7665.27	km	1	7665.27
2	Conversion of one km LT single phase 2 wire line to LT three phase 4 wire line including dismantling the existing 2 conductors, stringing 4 ACSR Rabbit conductor including conveyance of materials.	38241.68	km	1	38241.68
3	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	4	961.80
4	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
5	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
Labour Total					66105.75
Centage Charge					30684.03
Overhead Charge					6610.58
Total Estimate Amount					295175.56
Estimate Amount in figures : Rs. 295,176					
Estimate Amount in words : Rupees Two lakh Ninety Five thousand One hundred and Seventy Six					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Conversion of LT 3 wire OH line to 5 wire OH line**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	46	2806.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	30	24742.20
3	CROSS ARM 2 LINE SET(WITH CLAMP BOLT&NUT)	260.46	Set	-30	-7813.66
4	Conductor ACSR Rabbit	42.00	m	2100	88200.00
5	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	26	1612.00
6	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	48	4752.00
7	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	8	120.00
8	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	3	1242.00
9	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
10	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	4	860.00
11	COMPOSITE LINE SPACERS-4LINE(300mm)	83.00	E	100	8300.00
12	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					131442.54
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conversion of one km LT single phase 3 wire line to LT three phase 5 wire line including dismantling the existing 3 conductors, stringing 5 ACSR Rabbit conductors including conveyance of materials.	45577.64	km	1	45577.64
2	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	4	961.80
3	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
4	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
Labour Total					65776.44
Centage Charge					21030.80
Overhead Charge					6577.64
Total Estimate Amount					224827.42
Estimate Amount in figures : Rs. 224,827					
Estimate Amount in words : Rupees Two lakh Twenty Four thousand Eight hundred and Twenty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Drawing LT OH Line on existing poles 2 wire ACSR Rabbit

**UNIT :** kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	2100	88200.00
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	27	1674.00
3	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	30	15627.30
4	Ferrules 5 Sq.mm(GI)	12.00	E	7	84.00
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	7	1456.00
6	Earth Knob (Aluminium) for LT Line	124.00	E	7	868.00
7	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	52	2808.00
8	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	23	1403.00
9	Reel Insulator Porcelain 415/240 V	38.00	No	23	874.00
10	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	24	2376.00
11	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
12	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
13	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	2	430.00
14	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	1	414.00
15	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					122896.30
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit for Phase and Neutral, for one km LT single phase 2 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	16967.73	km	1	16967.73
2	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	2	480.90
3	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
Labour Total					26230.63
Centage Charge					19663.41
Overhead Charge					2623.06
Total Estimate Amount					171413.40
Estimate Amount in figures : Rs. 171,413					
Estimate Amount in words : Rupees One lakh Seventy One thousand Four hundred and Thirteen					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Drawing LT OH Line on existing poles 3 wire ACSR Rabbit**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	3150	132300.00
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	41	2542.00
3	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	30	24742.20
4	Ferrules 5 Sq.mm(GI)	12.00	E	7	84.00
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	7	1456.00
6	Earth Knob (Aluminium) for LT Line	124.00	E	7	868.00
7	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	46	2806.00
8	Reel Insulator Porcelain 415/240 V	38.00	No	23	874.00
9	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	69	3726.00
10	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	24	2376.00
11	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
12	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
13	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	2	430.00
14	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	1	414.00
15	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					179300.20
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit, for one km LT single phase 3 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	23764.23	km	1	23764.23
2	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	2	480.90
3	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
Labour Total					33027.13
Centage Charge					28688.03
Overhead Charge					3302.71
Total Estimate Amount					244318.07
Estimate Amount in figures : Rs. 244,318					
Estimate Amount in words : Rupees Two lakh Forty Four thousand Three hundred and Eighteen					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Drawing LT OH Line on existing poles 4 wire ACSR Rabbit**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	52	3224.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	30	24742.20
3	Ferrules 5 Sq.mm(GI)	12.00	E	7	84.00
4	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	7	1456.00
5	Earth Knob (Aluminium) for LT Line	124.00	E	7	868.00
6	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	69	4209.00
7	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	92	4968.00
8	Reel Insulator Porcelain 415/240 V	38.00	No	23	874.00
9	Conductor ACSR Rabbit	42.00	m	4200	176400.00
10	Spacer LT 3 Line Composite (Spiral)	47.00	E	100	4700.00
Material Total					221525.20
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit, for one km LT three phase 4 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	31957.45	km	1	31957.45
2	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
Labour Total					42412.45
Centage Charge					35444.03
Overhead Charge					4241.25
Total Estimate Amount					303622.93
Estimate Amount in figures : Rs. 303,623					
Estimate Amount in words : Rupees Three lakh Three thousand Six hundred and Twenty Three					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Drawing LT OH Line on existing poles 5 wire ACSR Rabbit**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	65	4030.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	30	24742.20
3	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	30	15627.30
4	Ferrules 5 Sq.mm(GI)	12.00	E	7	84.00
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	7	1456.00
6	Earth Knob (Aluminium) for LT Line	124.00	E	7	868.00
7	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	92	5612.00
8	Reel Insulator Porcelain 415/240 V	38.00	No	23	874.00
9	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	92	4968.00
10	Conductor ACSR Rabbit	42.00	m	5250	220500.00
11	Spacer LT 3 Line Composite (Spiral)	47.00	E	100	4700.00
12	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	48	4752.00
13	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	8	120.00
14	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	3	1242.00
15	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
16	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	4	860.00
17	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					297057.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit, for one km LT 3ph 5 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	38753.95	km	1	38753.95
2	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
3	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	4	961.80
4	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
Labour Total					58952.75
Centage Charge					47529.19
Overhead Charge					5895.28
Total Estimate Amount					409434.72



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
Estimate Amount in figures : Rs. 409,435					
Estimate Amount in words : Rupees Four lakh Nine thousand Four hundred and Thirty Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing LT OH line 2 wire with Rabbit using PSC Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	33	111017.94
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	32	1984.00
3	Earth Knob (Aluminium) for LT Line	124.00	E	8	992.00
4	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	8	1664.00
5	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	41	21357.31
6	Ferrules 5 Sq.mm(GI)	12.00	E	7	84.00
7	GI Wire 8 SWG	67.00	kg	1	67.00
8	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	25	1525.00
9	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	50	2700.00
10	Reel Insulator Porcelain 415/240 V	38.00	No	25	950.00
11	Conductor ACSR Rabbit	42.00	m	2100	88200.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	24	360.00
13	Clamp GI for LT Stay for Angular location	240.99	E	24	5783.76
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	24	5472.00
15	STAY TIGHTNER LT	251.00	E	24	6024.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	24	6816.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	96	7680.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	96	2880.00
19	Helically formed Guy-Grip LT	140.00	E	144	20160.00
20	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	24	2376.00
21	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
22	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
23	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	2	430.00
24	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	1	414.00
25	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					295619.01
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	33	66585.09
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	33	15801.06

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
3	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit for Phase and Neutral, for one km LT single phase 2 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	16967.73	km	1	16967.73
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8	25138.08
5	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	24	22531.68
6	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	2	480.90
7	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
8	Fitting one LT 2 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	140.09	No	5	700.45
				Labour Total	156986.99
				Centage Charge	47299.04
				Overhead Charge	15698.72
				Total Estimate Amount	515603.76
Estimate Amount in figures : Rs. 515,604					
Estimate Amount in words : Rupees Five lakh Fifteen thousand Six hundred and Four					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing LT OH line 3 wire with Rabbit using PSC Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	33	111017.94
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	47	2914.00
3	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	37	30515.38
4	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	8	1664.00
5	Earth Knob (Aluminium) for LT Line	124.00	E	8	992.00
6	GI Wire 8 SWG	67.00	kg	1	67.00
7	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	75	4575.00
8	Reel Insulator Porcelain 415/240 V	38.00	No	25	950.00
9	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	75	4050.00
10	Conductor ACSR Rabbit	42.00	m	3150	132300.00
11	Stay Insulator Porcelain 415/240 V	15.00	E	24	360.00
12	Clamp GI for LT Stay for Angular location	240.99	E	24	5783.76
13	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	24	5472.00
14	STAY TIGHTNER LT	251.00	E	24	6024.00
15	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	24	6816.00
16	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	96	7680.00
17	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	96	2880.00
18	Helically formed Guy-Grip LT	140.00	E	144	20160.00
19	Clamp for 2/4 line channel Cross Arm for PSC Poles 200kg	78.80	E	1	78.80
20	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.22	25.30
21	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	24	2376.00
22	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
23	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
24	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	2	430.00
25	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	1	414.00
26	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
Material Total					354227.18
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 2 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	140.09	No	5	700.45

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
2	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	33	66585.09
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	33	15801.06
4	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit, for one km LT single phase 3 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	23764.23	km	1	23764.23
5	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8	25138.08
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	24	22531.68
7	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	2	480.90
8	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
				Labour Total	163783.49
				Centage Charge	56676.35
				Overhead Charge	16378.37
				Total Estimate Amount	591065.39
Estimate Amount in figures : Rs. 591,065					
Estimate Amount in words : Rupees Five lakh Ninety One thousand and Sixty Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing LT OH line 4 wire with Rabbit using PSC Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	64	3968.00
2	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	41	33814.34
3	Pole PSC 8 M	3364.18	E	33	111017.94
4	Earth Knob (Aluminium) for LT Line	124.00	E	8	992.00
5	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	8	1664.00
6	GI Wire 8 SWG	67.00	kg	1	67.00
7	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	75	4575.00
8	Reel Insulator Porcelain 415/240 V	38.00	No	25	950.00
9	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	100	5400.00
10	Conductor ACSR Rabbit	42.00	m	4200	176400.00
11	Spacer LT 3 Line Composite (Spiral)	47.00	E	100	4700.00
12	Stay Insulator Porcelain 415/240 V	15.00	E	24	360.00
13	Clamp GI for LT Stay for Angular location	240.99	E	24	5783.76
14	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	24	5472.00
15	STAY TIGHTNER LT	251.00	E	24	6024.00
16	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	24	6816.00
17	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	96	7680.00
18	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	96	2880.00
19	Helically formed Guy-Grip LT	140.00	E	144	20160.00
20	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	48	4752.00
21	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	8	120.00
22	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	3	1242.00
23	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
24	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	4	860.00
Material Total					407220.04
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one LT 4 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	210.14	No	5	1050.70
2	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	33	66585.09
3	Labour charges for loading LT PSC pole from the stacking place	478.82	No	33	15801.06

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	and unloading the same at work site (transportation by any vehicle).				
4	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit, for one km LT three phase 4 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	31957.45	km	1	31957.45
5	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
6	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8	25138.08
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	24	22531.68
8	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	4	961.80
				Labour Total	174480.86
				Centage Charge	65155.21
				Overhead Charge	17448.11
				Total Estimate Amount	664304.22
Estimate Amount in figures : Rs. 664,304					
Estimate Amount in words : Rupees Six lakh Sixty Four thousand Three hundred and Four					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing LT OH line 5 wire with Rabbit using PSC Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	33	111017.94
2	SHACKLE INSULATOR 415V SET(WITH STRAP BOLT&NUT)	62.00	Set	80	4960.00
3	CROSS ARM GI CHANNEL 4 LINE (4 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	824.74	Set	38	31340.12
4	CROSS ARM GI CHANNEL 2 LINE (2 Line Channel Cross Arm) with Clamp, Bolt & Nut for PSC Pole 8M/200kg	520.91	Set	38	19794.58
5	Earth Knob (Aluminium) for LT Line	124.00	E	8	992.00
6	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	8	1664.00
7	GI Wire 8 SWG	67.00	kg	1	67.00
8	Reel Insulator Porcelain 415/240 V	38.00	No	25	950.00
9	Helically Formed Fitting -Distribution Side Tie for ACSR Rabbit	54.00	E	125	6750.00
10	PIN INSULATOR 415V SET(WITH PIN)	61.00	Set	100	6100.00
11	Conductor ACSR Rabbit	42.00	m	5250	220500.00
12	Spacer LT 3 Line Composite (Spiral)	47.00	E	100	4700.00
13	Stay Insulator Porcelain 415/240 V	15.00	E	24	360.00
14	Clamp GI for LT Stay for Angular location	240.99	E	24	5783.76
15	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	24	5472.00
16	STAY TIGHTNER LT	251.00	E	24	6024.00
17	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	24	6816.00
18	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	96	7680.00
19	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	96	2880.00
20	Helically formed Guy-Grip LT	140.00	E	144	20160.00
21	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	48	4752.00
22	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	8	120.00
23	FUSE UNIT 415 V 100 A PORCELAIN	414.00	E	3	1242.00
24	Base Frame SMC for LT Section Fuse with neutral Link	1522.00	E	1	1522.00
25	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	4	860.00
26	COMPOSITE LINE SPACERS-2LINE(300mm)	51.00	E	100	5100.00
27	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.22	25.30
Material Total					477632.70



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	33	66585.09
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	33	15801.06
3	Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit, for one km LT 3ph 5 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place.	38753.95	km	1	38753.95
4	Providing/Inserting 3 line spacer on the existing LT OH line.	104.55	No	100	10455.00
5	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8	25138.08
6	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	24	22531.68
7	Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt & nut etc.	240.45	No	4	961.80
8	Providing/Inserting 2 line spacer on the existing LT OH line.	87.82	No	100	8782.00
9	Fitting one LT 4 line cross arm on HT or LT existing poles including fitting insulators and binding the same with LT Line.	210.14	No	10	2101.40
				Labour Total	191110.06
				Centage Charge	76421.23
				Overhead Charge	19111.03
				Total Estimate Amount	764275.02
Estimate Amount in figures : Rs. 764,275					
Estimate Amount in words : Rupees Seven lakh Sixty Four thousand Two hundred and Seventy Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing 11 kV OH Line with ACSR Raccoon using PSC Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 9 M	3908.00	E	29	113332.00
2	Hardware Fittings 11kV B&S Type	197.00	E	36	7092.00
3	Disc Insulator 11 kV Composite Polymeric	119.00	E	36	4284.00
4	Knee bracing for HT Cantiliver cross arm	720.00	E	6	4320.00
5	Channel cross arm GI 75x40x6mm 1.8M	1191.93	E	12	14303.16
6	Cleat GI for 11kV Disc insulator	97.07	E	36	3494.52
7	Pole Top Bracket -F Type GI -11 kV	154.00	E	23	3542.00
8	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	10.7	1230.50
9	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	31.5	3622.50
10	Bolt& Nut GI FT M 16 x 75	115.00	kg	10.92	1255.80
11	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	75	11700.00
12	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
13	GI WIRE 6MM DIA 4 SWG	93.00	kg	96	8928.00
14	Channel cross arm GI 75 x 40 x 6 mm 2.4 mt	1589.35	E	12	19072.20
15	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	3	1222.83
16	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	10.08	1159.20
17	CLAMP GI FOR HT CROSS ARM	173.65	E	6	1041.90
18	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	66	2376.00
19	Fish Plate GI (GI Flat 260 x 50 x 8 mm)	209.00	E	12	2508.00
20	V cross arm GI 11 kV	1211.44	E	21	25440.24
21	Clamp GI for 11kV line V cross arm	190.94	E	21	4009.74
22	Stay Insulator Porcelain 11k V	40.00	E	27	1080.00
23	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI))	572.00	E	27	15444.00
24	STAY TIGHTNER HT	395.00	E	27	10665.00
25	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	135	10800.00
26	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	27	10935.00
27	Helically formed Guy-Grip HT	91.00	E	162	14742.00
28	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	108	3240.00
29	Conductor ACSR Raccoon	65.00	m	3150	204750.00
30	G.I.WIRE. 4MM (8 SWG)	81.00	kg	39	3159.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
31	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	8	8448.00
32	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	8	8072.00
33	Earth Connector 95 Sqmm	91.00	E	8	728.00
34	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.96	110.40
35	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	8	48.00
36	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	23	4784.00
37	Ferrules 5 Sq.mm(GI)	12.00	E	23	276.00
38	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	184	1840.00
39	SS strap for clamping earth wire	36.00	m	92	3312.00

Material Total 553073.99

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting and erecting one HT PSC Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	3274.36	No	23	75310.28
2	Additional rate for providing one disc set, PG clamp etc. complete, on any type of HT pole for making cut point.	158.91	No	36	5720.76
3	Fitting one Additional 75x40mm, 1.8m Channel cross arm in existing single pole including conveyance of materials.	481.95	No	10	4819.50
4	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	29	22102.06
5	Fitting one set AB switch on existing DP, giving connection and drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing.	2795.55	No	1	2795.55
6	Fitting one Additional 2.4m/3m Channel cross arm (100x50x6mm), in existing 11kV DP including conveyance of materials.	564.55	No	6	3387.30
7	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	9	150.57
8	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	3	26207.46
9	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	27	37090.71
10	Stringing of one km 11kV line with ACSR Raccoon (3 conductors) after fitting insulators and giving jumper connections including cutting and removing tree branches wherever necessary excluding cut point works.	34792.73	km	1	34792.73
11	Fitting one Additional V cross arm in existing single pole including conveyance of materials.	481.95	No	1	481.95
12	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8	25138.08
13	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard	4245.59	No	8	33964.72

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).				
14	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	23	24983.29
				Labour Total	296944.96
				Centage Charge	88491.84
				Overhead Charge	29694.50
				Total Estimate Amount	968205.29
Estimate Amount in figures : Rs. 968,205					
Estimate Amount in words : Rupees Nine lakh Sixty Eight thousand Two hundred and Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing 11 kV Line with UG Cable 300 sq mm by open trench**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Cable 11kV XLPE AL UG 3c X300 sq mm (Armoured)	1316.00	m	1058	1392328.00
2	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
3	GI WIRE 6MM DIA 4 SWG	93.00	kg	4	372.00
4	Channel cross arm GI 75 x 40 x 6 mm 2.4 mt	1589.35	E	3	4768.05
5	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	3	1222.83
6	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	1.5	172.50
7	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	8.04	924.60
8	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	6.75	776.25
9	Stay Insulator Porcelain 11k V	40.00	E	2	80.00
10	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI)	572.00	E	2	1144.00
11	STAY TIGHTNER HT	395.00	E	2	790.00
12	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	10	800.00
13	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	2	810.00
14	Helically formed Guy-Grip HT	91.00	E	12	1092.00
15	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
16	G.I.WIRE. 4MM (8 SWG)	81.00	kg	2	162.00
17	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	1	1056.00
18	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	1	1009.00
19	Earth Connector 95 Sqmm	91.00	E	1	91.00
20	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.12	13.80
21	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	1	6.00
22	Cable End Termination Kit 11 kV XLPE 3c x 300 Sq.mm -Heat Shrinkable (Outdoor)	2565.00	E	4	10260.00
23	Cable Straight Joint Kit 11 kV XLPE 3c x 300 Sq.mm -Heat Shrinkable (Outdoor)	5522.00	E	2	11044.00
24	UG Cable Route Marker HT	173.00	E	20	3460.00
25	Pipe HDPE 110 mm	366.00	m	12	4392.00
26	Pole PSC 9 M	3908.00	E	3	11724.00
27	Clamp for 2/4 line channel Cross Arm for PSC Poles 200kg	78.80	E	6	472.80
28	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	1.32	151.80

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
29	CROSS ARM GI CHANNEL 100X50 mm 2.4 M	2005.66	E	3	6016.98
30	CLAMP GI FOR HT CROSS ARM	173.65	E	2	347.30
Material Total					1472432.9 1
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Excavation of cable trench of appropriate size ( normally 1.2m deep and 0.35m /0.5m wide for single/double run) in all classes of soil including breaking clods, watering, ramming and sectioning of soil bank etc. and back filling the soil after cable laying and consolidating the soil in layers of 75cm (excluding laying of cable).	318.86	m	1000	318860.00
2	Laying HT XLPE UG cable of sizes beyond 3x185 sq mm and upto and including 3x300 sqmm including conveying cable from Sub Regional Store/stacking place to work site and laying it carefully using cable rollers, taking through stone ware/G.I.pipes at road crossing/culverts/bridges etc. wherever necessary, providing identification tags at 5m intervals, filling the space around the cable with riddled soil and covering the top with bricks, providing cable route markers at 100m intervals, inclusive of cost of all materials (other than cost of GI/HDPE pipe & UG Cable), labour and transport including crane charges excluding excavation and backfilling.	481.95	m	1000	481950.00
3	Fitting one set AB switch on existing DP, giving connection and drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing.	2795.55	No	1	2795.55
4	Fitting one Additional 2.4m/3m Channel cross arm (100x50x6mm), in existing 11kV DP including conveyance of materials.	564.55	No	4	2258.20
5	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	9	150.57
6	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	2	2747.46
7	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	1	4245.59
8	Doing one cable end termination on HT XLPE UG cables of sizes beyond 3x185 sqmm and upto and including 3x300 sq mm using the cable jointing kit supplied departmentally after making fencing,caution board and all other safety measures including charges for cable jointer etc. complete as per the direction of the departmental officers.	1925.73	No	4	7702.92
9	Doing straight joint on HT XLPE UG cables of sizes beyond 3x185 sqmm and upto and including 3x300 sq mm using the cable jointing kit supplied departmentally as per specification after providing proper traffic signalling and caution board fencing etc. wherever necessary, including charges for cable jointer and other sundries etc. as per the direction of departmental officers at site.	3229.41	No	2	6458.82
10	Fitting and erecting one HT PSC Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	3274.36	No	1	3274.36

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
11	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	3	2286.42
12	Mounting and connecting HT XLPE UG cable ends of all sizes upto and including 3x300 sq mm with special type cable clamps, bolts, nuts, terminal protectors etc.including cost of extra materials if needed and giving necessary jumper connections.	1169.86	No	3	3509.58
13	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	1	8735.82
14	Transporting UG Cable	17828.00	E	1	17828.00
				Labour Total	862803.29
				Centage Charge	235589.27
				Overhead Charge	86280.34
				Total Estimate Amount	2657105.81
Estimate Amount in figures : Rs. 2,657,106					
Estimate Amount in words : Rupees Twenty Six lakh Fifty Seven thousand One hundred and Six					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing 11 kV OH Line with ACSR Raccoon using A type Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	POLE A TYPE 12 M	18665.39	E	29	541296.31
2	Hardware Fittings 11kV B&S Type	197.00	E	36	7092.00
3	Disc Insulator 11 kV Composite Polymeric	119.00	E	36	4284.00
4	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	69	10764.00
5	Channel cross arm GI 75x40x6mm 1.8M	1191.93	E	12	14303.16
6	Cleat GI for 11kV Disc insulator	97.07	E	36	3494.52
7	Clamp GI for 11kV line V cross arm	190.94	E	23	4391.62
8	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	2.3	264.50
9	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	31.5	3622.50
10	Bolt& Nut GI FT M 16 x 75	115.00	kg	10.08	1159.20
11	V cross arm GI 11 kV	1211.44	E	23	27863.12
12	Cantiliver Cross arm HT	1589.35	E	6	9536.10
13	Clamp GI for HT Cantiliver Cross arm	173.65	E	6	1041.90
14	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
15	GI WIRE 6MM DIA 4 SWG	93.00	kg	96	8928.00
16	Channel cross arm GI 75 x 40 x 6 mm 2.4 mt	1589.35	E	12	19072.20
17	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	3	1222.83
18	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	10.08	1159.20
19	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	69	2484.00
20	CLAMP GI FOR HT CROSS ARM	173.65	E	6	1041.90
21	Fish Plate GI (GI Flat 260 x 50 x 8 mm)	209.00	E	6	1254.00
22	Stay Insulator Porcelain 11k V	40.00	E	27	1080.00
23	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI))	572.00	E	27	15444.00
24	STAY TIGHTNER HT	395.00	E	27	10665.00
25	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	135	10800.00
26	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	27	10935.00
27	Helically formed Guy-Grip HT	91.00	E	162	14742.00
28	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	108	3240.00
29	Conductor ACSR Raccoon	65.00	m	3150	204750.00
30	G.I.WIRE. 4MM (8 SWG)	81.00	kg	39	3159.00



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
31	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	8	8448.00
32	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	8	8072.00
33	Earth Connector 95 Sqmm	91.00	E	8	728.00
34	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.96	110.40
35	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	8	48.00
36	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	23	4784.00
37	Ferrules 5 Sq.mm(GI)	12.00	E	23	276.00
38	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	184	1840.00
39	SS strap for clamping earth wire	36.00	m	92	3312.00

Material Total 983414.46

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting and erecting one HT 'A' type Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	4143.14	No	23	95292.22
2	Additional rate for providing one disc set, PG clamp etc. complete, on any type of HT pole for making cut point.	158.91	No	36	5720.76
3	Fitting one Additional V cross arm in existing single pole including conveyance of materials.	481.95	No	3	1445.85
4	Fitting one Additional 75x40mm, 1.8m Channel cross arm in existing single pole including conveyance of materials.	481.95	No	12	5783.40
5	Labour charges for loading HT 'A' type pole from the stacking place and unloading the same at work site (transportation by any vehicle).	906.41	No	29	26285.89
6	Fitting one set AB switch on existing DP, giving connection and drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing.	2795.55	No	1	2795.55
7	Fitting one Additional 2.4m/3m Channel cross arm (100x50x6mm), in existing 11kV DP including conveyance of materials.	564.55	No	6	3387.30
8	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	9	150.57
9	Fitting and erecting one HT Double Pole Structure using 'A' type pole in position including fitting 2 No. channel cross arm, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	10473.36	No	3	31420.08
10	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	27	37090.71
11	Stringing of one km 11kV line with ACSR Raccoon (3 conductors) after fitting insulators and giving jumper connections including cutting and removing tree branches wherever necessary excluding cut point works.	34792.73	km	1	34792.73
12	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8	25138.08
13	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard	4245.59	No	8	33964.72

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).				
14	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	23	24983.29
Labour Total					328251.15
Centage Charge					157346.31
Overhead Charge					32825.12
Total Estimate Amount					1501837.04
Estimate Amount in figures : Rs. 1,501,837					
Estimate Amount in words : Rupees Fifteen lakh One thousand Eight hundred and Thirty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Installation of 1 No. 11 KV/ 433 V , 100 KVA Transformer without stay( pole mounted )**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Distribution Transformer 3 Phase 100 kVA 11kV/433 V ONAN	227681.00	E	1	227681.00
2	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	35	3465.00
3	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	12	180.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	3	33.00
5	Pole PSC 9 M	3908.00	E	2	7816.00
6	Hardware Fittings 11kV B&S Type	197.00	E	3	591.00
7	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
8	Disc Insulator 11 kV Composite Polymeric	119.00	E	3	357.00
9	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	3	468.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	30	2430.00
11	Channel cross arm GI 75x40x6mm 1.8M	1191.93	E	2	2383.86
12	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	7	20900.25
13	V cross arm GI 11 kV	1211.44	E	2	2422.88
14	Cleat GI for 11kV Disc insulator	97.07	E	3	291.21
15	CLAMP GI FOR HT CROSS ARM	173.65	E	6	1041.90
16	Clamp GI for 11kV line V cross arm	190.94	E	2	381.88
17	Pole Top Bracket -F Type GI -11 kV	154.00	E	1	154.00
18	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	4	1630.44
19	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	2	230.00
20	FUSE DROP OUT 11 kV	1057.00	E	3	3171.00
21	Fuse Wire 200A	874.00	kg	0.1	87.40
22	BOLT & NUT GI 40mm x 16mm (1 1/2 x 5/8)	115.00	kg	0.12	13.80
23	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	5.04	579.60
24	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	10.5	1207.50
25	Bolt& Nut GI FT M 16 x 75	115.00	kg	0.84	96.60
26	BOLT & NUT GI HT 300mm x 19mm	115.00	kg	5	575.00
27	Clamp GI For Transformer Side Belting Angle	198.95	No	2	397.90
28	Plate washer GI M16	115.00	kg	0.2	23.00
29	Distribution Box LT Outdoor 2 Way 200 A	23666.00	E	1	23666.00
30	Cable Tray GI (Perforated) 300 x 30 x 1.6mm-2.5 mt	1633.00	E	2	3266.00
31	Cable Tray GI 300mmX1.6 mm	1167.00	m	1	1167.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
32	Bolt& Nut GI M 12 x 90 (3 1/2"x 1/2")	115.00	kg	0.976	112.24
33	Plate Washer SS M12	115.00	kg	0.16	18.40
34	Copper Flat Strip 40 x 3 mm length 115mm	125.00	E	4	500.00
35	GI Flat Strip 40 x 6 mm	80.00	kg	14	1120.00
36	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	15	90.00
37	SS strap for clamping earth wire	36.00	m	10	360.00
38	Conductor ACSR Rabbit	42.00	m	20	840.00
39	EARTH WIRE GI 7/9	73.00	kg	5	365.00
40	Bolt & Nut GI M 10 x 25 (1"x 3/8")	115.00	kg	0.08	9.20
41	Square Washer GI M10	16.67	No	1	16.67
42	Alkathene Pipe 50 mm	70.80	m	30	2124.00
43	Transformer Side Belting Angle	2873.00	No	2	5746.00
44	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	15	3225.00
45	Clamp GI for Danger Board (HT)	93.00	No	1	93.00
46	Bolt & Nut GI M 6 x 25 (1"x 1/4")	115.00	kg	3	345.00
47	Danger Board 250 x 200 mm (11000 V)	92.00	E	1	92.00
48	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	3	108.00
49	GI Flat Strip 25 x 3 mm	98.00	m	2.4	235.20
50	LA Supporting Plate GI 500 x 300 x 3 mm	112.00	kg	3	336.00
51	Angle cross arm GI 35 x 35 x 6 mm 0.5 mt	685.00	E	6	4110.00
52	Lightning Arrester 9 kV,10 KA (Station class) Composite Polymer Housing	2028.00	E	3	6084.00
53	Stainless steel Buckles [20.5 mm x 1.5 mm; thickness 1.2 mm]	6.00	E	20	120.00
54	Clamp GI for Cable Tray in Transformer DP	472.00	E	6	2832.00
55	CT RESIN CAST 0.415KV 10VA Class 0.5 200/5A	0.00	E	4	0.00
56	EM 3X 230V CLASS 0.5S --/5A LCD(DTR /LT CT METER)	0.00	E	1	0.00
57	Meter Box For Distribution Transformer With Clamps (FRP)	2953.00	E	1	2953.00
58	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	5	5280.00
59	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	5	5045.00
60	Earth Connector 95 Sqmm	91.00	E	5	455.00
61	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.6	69.00
Material Total					366097.93

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erecting one 100kVA Transformer to existing DP and giving connections, including loading from TMR/SRS/other stacking place & unloading at site but excluding cost for transporting transformer.	7153.00	No	1	7153.00
2	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
3	Additional rate for providing one disc set, PG clamp etc. complete,	158.91	No	3	476.73

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	on any type of HT pole for making cut point.				
4	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	1	8735.82
5	Fitting 5 channel cross arms, AB switch, DO fuse, LA(Ord), HT & LT connections upto OH lines, etc. on existing DP structure, Fixing distribution box/provision for one set (3No.) of LT fuses, , drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing & mounting of Transformer on poles.	10905.14	No	1	10905.14
6	Fitting one Additional V cross arm in existing single pole including conveyance of materials.	481.95	No	2	963.90
7	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	27	451.71
8	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	2	1524.28
9	Providing Transformer/RMU fencing to a height of 1.8 m above ground level using MS Angle frames of size ISA 50x50x6mm for outer frame, 2 runs of 40 x 6 MS flat for horizontal bracing and grills with MS rods 8 mm Dia @ 10cm c/c for verticals, providing gate with locking arrangements, providing danger board & name board, embedding the legs in cement concrete 1:2:4, footing of size 30cmx30cmx50cm, painting with synthetic enamel paint two coats over one coat of iron primer etc complete, incl cost of transportation	1589.72	sq.m	24	38153.28
10	Cleaning and levelling of transformer yard/RMU, spreading 40 mm broken stone in yard for a thickness of 10 cm above bed of 10 cm thick 6 mm broken stone, after constructing a curb wall of height 20cm above ground and 10cm below level including cost of all materials and charges for conveying, spreading, consolidating etc.	769.18	sq.m	30	23075.40
11	Installing one DTR Meter with box (normal size 40x25x100cm) on existing poles including fixing of 3 CTs on bus bar, laying and termination of control cable using proper lugs, fixing of meters, capacitors, control fuses and giving the complete connections including conveyance of materials.	3758.41	No	1	3758.41
12	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	5	21227.95
13	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
				Labour Total	121139.01
				Centage Charge	58575.67
				Overhead Charge	12113.91
				Total Estimate Amount	557926.52
Estimate Amount in figures : Rs. 557,927					
Estimate Amount in words : Rupees Five lakh Fifty Seven thousand Nine hundred and Twenty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Installation of 1 No. 11 KV/ 433 V , 160 KVA Transformer without stay (pole mounted)**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Distribution Transformer 3 Phase 160 kVA 11kV/433 V ONAN (1 Star Rated)	342554.00	E	1	342554.00
2	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	35	3465.00
3	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	12	180.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	3	33.00
5	Pole PSC 9 M	3908.00	E	2	7816.00
6	Hardware Fittings 11kV B&S Type	197.00	E	3	591.00
7	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
8	Disc Insulator 11 kV Composite Polymeric	119.00	E	3	357.00
9	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	3	468.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	30	2430.00
11	Channel cross arm GI 75x40x6mm 1.8M	1191.93	E	2	2383.86
12	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	7	20900.25
13	V cross arm GI 11 kV	1211.44	E	2	2422.88
14	Cleat GI for 11kV Disc insulator	97.07	E	3	291.21
15	CLAMP GI FOR HT CROSS ARM	173.65	E	6	1041.90
16	Clamp GI for 11kV line V cross arm	190.94	E	2	381.88
17	Pole Top Bracket -F Type GI -11 kV	154.00	E	1	154.00
18	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	4	1630.44
19	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	2	230.00
20	FUSE DROP OUT 11 kV	1057.00	E	3	3171.00
21	Fuse Wire 200A	874.00	kg	0.1	87.40
22	BOLT & NUT GI 40mm x 16mm (1 1/2 x 5/8)	115.00	kg	0.12	13.80
23	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	5.04	579.60
24	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	10.5	1207.50
25	Bolt& Nut GI FT M 16 x 75	115.00	kg	0.84	96.60
26	BOLT & NUT GI HT 300mm x 19mm	115.00	kg	5	575.00
27	Clamp GI For Transformer Side Belting Angle	198.95	No	2	397.90
28	Plate washer GI M16	115.00	kg	0.2	23.00
29	Distribution Box LT Outdoor 2 Way 200 A	23666.00	E	1	23666.00
30	Cable Tray GI (Perforated) 300 x 30 x 1.6mm-2.5 mt	1633.00	E	2	3266.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
31	Cable Tray GI 300mmX1.6 mm	1167.00	m	1	1167.00
32	Bolt& Nut GI M 12 x 90 (3 1/2"x 1/2")	115.00	kg	0.976	112.24
33	Plate Washer SS M12	115.00	kg	0.16	18.40
34	Copper Flat Strip 40 x 3 mm length 115mm	125.00	E	4	500.00
35	GI Flat Strip 40 x 6 mm	80.00	kg	14	1120.00
36	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	15	90.00
37	SS strap for clamping earth wire	36.00	m	10	360.00
38	Conductor ACSR Rabbit	42.00	m	20	840.00
39	EARTH WIRE GI 7/9	73.00	kg	5	365.00
40	Bolt & Nut GI M 10 x 25 (1"x 3/8")	115.00	kg	0.08	9.20
41	Square Washer GI M10	16.67	No	1	16.67
42	Alkathene Pipe 50 mm	70.80	m	30	2124.00
43	Transformer Side Belting Angle	2873.00	No	2	5746.00
44	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	15	3225.00
45	Clamp GI for Danger Board (HT)	93.00	No	1	93.00
46	Bolt & Nut GI M 6 x 25 (1"x 1/4")	115.00	kg	3	345.00
47	Danger Board 250 x 200 mm (11000 V)	92.00	E	1	92.00
48	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	3	108.00
49	GI Flat Strip 25 x 3 mm	98.00	m	2.4	235.20
50	LA Supporting Plate GI 500 x 300 x 3 mm	112.00	kg	3	336.00
51	Angle cross arm GI 35 x 35 x 6 mm 0.5 mt	685.00	E	6	4110.00
52	Lightning Arrester 9 kV,10 KA (Station class) Composite Polymer Housing	2028.00	E	3	6084.00
53	Stainless steel Buckles [20.5 mm x 1.5 mm; thickness 1.2 mm]	6.00	E	20	120.00
54	Clamp GI for Cable Tray in Transformer DP	472.00	E	6	2832.00
55	CT RESIN CAST 0.415KV 15VA Class 0.5 300/5A	0.00	E	4	0.00
56	EM 3X 230V CLASS 0.5S --/5A LCD(DTR /LT CT METER)	0.00	E	1	0.00
57	Meter Box For Distribution Transformer With Clamps (FRP)	2953.00	E	1	2953.00
58	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	5	5280.00
59	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	5	5045.00
60	Earth Connector 95 Sqmm	91.00	E	5	455.00
61	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.6	69.00
Material Total					480970.93

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erecting one 160kVA Transformer to existing DP and giving connections, including loading from TMR/SRS/other stacking place & unloading at site but excluding cost for transporting transformer.	7393.45	No	1	7393.45
2	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
3	Additional rate for providing one disc set, PG clamp etc. complete, on any type of HT pole for making cut point.	158.91	No	3	476.73
4	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	1	8735.82
5	Fitting 5 channel cross arms, AB switch, DO fuse, LA(Ord), HT & LT connections upto OH lines, etc. on existing DP structure, Fixing distribution box/provision for one set (3No.) of LT fuses, , drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing & mounting of Transformer on poles.	10905.14	No	1	10905.14
6	Fitting one Additional V cross arm in existing single pole including conveyance of materials.	481.95	No	2	963.90
7	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	27	451.71
8	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	2	1524.28
9	Providing Transformer/RMU fencing to a height of 1.8 m above ground level using MS Angle frames of size ISA 50x50x6mm for outer frame, 2 runs of 40 x 6 MS flat for horizontal bracing and grills with MS rods 8 mm Dia @ 10cm c/c for verticals, providing gate with locking arrangements, providing danger board & name board, embedding the legs in cement concrete 1:2:4, footing of size 30cmx30cmx50cm, painting with synthetic enamel paint two coats over one coat of iron primer etc complete, incl cost of transportation	1589.72	sq.m	24	38153.28
10	Cleaning and levelling of transformer yard/RMU, spreading 40 mm broken stone in yard for a thickness of 10 cm above bed of 10 cm thick 6 mm broken stone, after constructing a curb wall of height 20cm above ground and 10cm below level including cost of all materials and charges for conveying, spreading, consolidating etc.	769.18	sq.m	30	23075.40
11	Installing one DTR Meter with box (normal size 40x25x100cm) on existing poles including fixing of 3 CTs on bus bar, laying and termination of control cable using proper lugs, fixing of meters, capacitors, control fuses and giving the complete connections including conveyance of materials.	3758.41	No	1	3758.41
12	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	5	21227.95
13	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
				Labour Total	121379.46
				Centage Charge	76955.35
				Overhead Charge	12137.95
				Total Estimate Amount	691443.69
Estimate Amount in figures : Rs. 691,444					
Estimate Amount in words : Rupees Six lakh Ninety One thousand Four hundred and Forty Four					



**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Installation of 11KV/433V 250 KVA Transformer**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Distribution Transformer 3 Phase 250 kVA 11kV/433 V ONAN	453592.00	E	1	453592.00
2	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	35	3465.00
3	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	12	180.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	3	33.00
5	Pole PSC 9 M	3908.00	E	2	7816.00
6	Hardware Fittings 11kV B&S Type	197.00	E	3	591.00
7	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
8	Disc Insulator 11 kV Composite Polymeric	119.00	E	3	357.00
9	COMPOSITE PIN INSULATOR 11 kV with Pin	156.00	Set	3	468.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	30	2430.00
11	Channel cross arm GI 75x40x6mm 1.8M	1191.93	E	2	2383.86
12	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	7	20900.25
13	V cross arm GI 11 kV	1211.44	E	2	2422.88
14	Cleat GI for 11kV Disc insulator	97.07	E	3	291.21
15	CLAMP GI FOR HT CROSS ARM	173.65	E	6	1041.90
16	Clamp GI for 11kV line V cross arm	190.94	E	2	381.88
17	Pole Top Bracket -F Type GI -11 kV	154.00	E	1	154.00
18	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	4	1630.44
19	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	2	230.00
20	FUSE DROP OUT 11 kV	1057.00	E	3	3171.00
21	Fuse Wire 200A	874.00	kg	0.1	87.40
22	BOLT & NUT GI 40mm x 16mm (1 1/2 x 5/8)	115.00	kg	0.12	13.80
23	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	5.04	579.60
24	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	10.5	1207.50
25	Bolt& Nut GI FT M 16 x 75	115.00	kg	0.84	96.60
26	BOLT & NUT GI HT 300mm x 19mm	115.00	kg	5	575.00
27	Clamp GI For Transformer Side Belting Angle	198.95	No	2	397.90
28	Plate washer GI M16	115.00	kg	0.2	23.00
29	Distribution Box LT Outdoor 2 Way 200 A	23666.00	E	1	23666.00
30	Cable Tray GI (Perforated) 300 x 30 x 1.6mm-2.5 mt	1633.00	E	2	3266.00
31	Cable Tray GI 300mmX1.6 mm	1167.00	m	1	1167.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
32	Bolt& Nut GI M 12 x 90 (3 1/2"x 1/2")	115.00	kg	0.976	112.24
33	Plate Washer SS M12	115.00	kg	0.16	18.40
34	Copper Flat Strip 40 x 3 mm length 115mm	125.00	E	4	500.00
35	GI Flat Strip 40 x 6 mm	80.00	kg	14	1120.00
36	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	15	90.00
37	SS strap for clamping earth wire	36.00	m	10	360.00
38	Conductor ACSR Rabbit	42.00	m	20	840.00
39	EARTH WIRE GI 7/9	73.00	kg	5	365.00
40	Bolt & Nut GI M 10 x 25 (1"x 3/8")	115.00	kg	0.08	9.20
41	Square Washer GI M10	16.67	No	1	16.67
42	Alkathene Pipe 50 mm	70.80	m	30	2124.00
43	Transformer Side Belting Angle	2873.00	No	2	5746.00
44	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	15	3225.00
45	Clamp GI for Danger Board (HT)	93.00	No	1	93.00
46	Bolt & Nut GI M 6 x 25 (1"x 1/4")	115.00	kg	3	345.00
47	Danger Board 250 x 200 mm (11000 V)	92.00	E	1	92.00
48	Helically Formed Fitting -Distribution Top Tie for ACSR Raccoon	36.00	E	3	108.00
49	GI Flat Strip 25 x 3 mm	98.00	m	2.4	235.20
50	LA Supporting Plate GI 500 x 300 x 3 mm	112.00	kg	3	336.00
51	Angle cross arm GI 35 x 35 x 6 mm 0.5 mt	685.00	E	6	4110.00
52	Lightning Arrester 9 kV,10 KA (Station class) Composite Polymer Housing	2028.00	E	3	6084.00
53	Stainless steel Buckles [20.5 mm x 1.5 mm; thickness 1.2 mm]	6.00	E	20	120.00
54	Clamp GI for Cable Tray in Transformer DP	472.00	E	6	2832.00
55	Stay Insulator Porcelain 11k V	40.00	E	4	160.00
56	STAY TIGHTNER HT	395.00	E	2	790.00
57	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	14	1120.00
58	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	2	810.00
59	Helically formed Guy-Grip HT	91.00	E	16	1456.00
60	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI))	572.00	E	2	1144.00
61	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
62	CT RESIN CAST 0.415kV 15VA Class 0.5 400/5A	0.00	E	4	0.00
63	EM 3X 230V CLASS 0.5S --/5A LCD(DTR /LT CT METER)	0.00	E	1	0.00
64	Meter Box For Distribution Transformer With Clamps (FRP)	2953.00	E	1	2953.00
65	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	5	5280.00
66	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	5	5045.00
67	Earth Connector 95 Sqmm	91.00	E	5	455.00
68	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.6	69.00
Material Total					597728.93

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erecting one 250kVA Transformer to existing Plinth/Platform and giving connections, including loading from TMR/SRS/other stacking place & unloading at site but excluding cost for transporting transformer.	8286.27	No	1	8286.27
2	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
3	Additional rate for providing one disc set, PG clamp etc. complete, on any type of HT pole for making cut point.	158.91	No	3	476.73
4	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	1	8735.82
5	Fitting 5 channel cross arms, AB switch, DO fuse, LA(Ord), HT & LT connections upto OH lines, etc. on existing DP structure, Fixing distribution box/provision for one set (3No.) of LT fuses, , drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing & mounting of Transformer on poles.	10905.14	No	1	10905.14
6	Fitting one Additional V cross arm in existing single pole including conveyance of materials.	481.95	No	2	963.90
7	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	27	451.71
8	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	2	1524.28
9	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	2	2747.46
10	Providing Transformer/RMU fencing to a height of 1.8 m above ground level using MS Angle frames of size ISA 50x50x6mm for outer frame, 2 runs of 40 x 6 MS flat for horizontal bracing and grills with MS rods 8 mm Dia @ 10cm c/c for verticals, providing gate with locking arrangements, providing danger board & name board, embedding the legs in cement concrete 1:2:4, footing of size 30cmx30cmx50cm, painting with synthetic enamel paint two coats over one coat of iron primer etc complete, incl cost of transportation	1589.72	sq.m	24	38153.28
11	Cleaning and levelling of transformer yard/RMU, spreading 40 mm broken stone in yard for a thickness of 10 cm above bed of 10 cm thick 6 mm broken stone, after constructing a curb wall of height 20cm above ground and 10cm below level including cost of all materials and charges for conveying, spreading, consolidating etc.	769.18	sq.m	30	23075.40
12	Installing one DTR Meter with box (normal size 40x25x100cm) on existing poles including fixing of 3 CTs on bus bar, laying and termination of control cable using proper lugs, fixing of meters, capacitors, control fuses and giving the complete connections including conveyance of materials.	3758.41	No	1	3758.41
13	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	5	21227.95
14	Constructing Transformer plinth of size 1.5x1.5x1.5m on	44051.93	No	1	44051.93

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	1.8x1.8x0.75m basement inclusive of cost of all materials. [Excavation 1.8x1.8x0.75m, Random Rubble in CM(1:6) 1.8x1.8x0.75m + 1.5x1.5x1.5m, concrete (1:2:4, 20mm) 1.5x1.5x0.10 m, plaster CM (1:3) 12mm, 1.5x1.5m, Pointing CM (1:3) 1.5x1.5mx 4 sides].				
Labour Total					167500.54
Centage Charge					95636.63
Overhead Charge					16750.06
Total Estimate Amount					877616.16
Estimate Amount in figures : Rs. 877,616					
Estimate Amount in words : Rupees Eight lakh Seventy Seven thousand Six hundred and Sixteen					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** Estimate for installation of Data Acquisition compatible Extensible type Ring Main Unit without VCB -CCC (E)  
(Cable -Cable -Cable )

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	RMU 11kV 630 A CCC(E) -(CCC+) or (RRR+)	621860.00	E	1	621860.00
2	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	1	2985.75
3	Cable 11kV XLPE AL UG 3c X300 sq mm (Armoured)	1316.00	m	15	19740.00
4	GI STRIP 32X6	91.00	kg	16	1456.00
5	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
6	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
7	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
8	Cable End Termination Kit 11 kV XLPE 3c x 300 Sq.mm -Heat Shrinkable (In door)	1599.00	E	3	4797.00
Material Total					654996.35
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
2	RMUs with two nos load break switches & one VCB	56355.23	No	1	56355.23
3	Providing Transformer/RMU fencing to a height of 1.8 m above ground level using MS Angle frames of size ISA 50x50x6mm for outer frame, 2 runs of 40 x 6 MS flat for horizontal bracing and grills with MS rods 8 mm Dia @ 10cm c/c for verticals, providing gate with locking arrangements, providing danger board & name board, embedding the legs in cement concrete 1:2:4, footing of size 30cmx30cmx50cm, painting with synthetic enamel paint two coats over one coat of iron primer etc complete, incl cost of transportation	1589.72	sq.m	24	38153.28
4	Cleaning and levelling of transformer yard/RMU, spreading 40 mm broken stone in yard for a thickness of 10 cm above bed of 10 cm thick 6 mm broken stone, after constructing a curb wall of height 20cm above ground and 10cm below level including cost of all materials and charges for conveying, spreading, consolidating etc.	769.18	sq.m	15	11537.70
5	Excavation of cable trench of appropriate size ( normally 1.2m deep and 0.35m /0.5m wide for single/double run) in all classes of soil including breaking clods, watering, ramming and sectioning of soil bank etc. and back filling the soil after cable laying and consolidating the soil in layers of 75cm (excluding laying of cable).	318.86	m	15	4782.90
6	Laying HT XLPE UG cable of sizes beyond 3x185 sq mm and upto and including 3x300 sqmm including conveying cable from Sub Regional Store/stacking place to work site and laying it carefully using cable rollers, taking through stone ware/G.I.pipes at road	481.95	m	15	7229.25

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	crossing/culverts/bridges etc. wherever necessary, providing identification tags at 5m intervals, filling the space around the cable with riddled soil and covering the top with bricks, providing cable route markers at 100m intervals, inclusive of cost of all materials (other than cost of GI/HDPE pipe & UG Cable), labour and transport including crane charges excluding excavation and backfilling.				
7	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18
Labour Total					129691.80
Centage Charge					104799.42
Overhead Charge					12969.19
Total Estimate Amount					902456.76
Estimate Amount in figures : Rs. 902,457					
Estimate Amount in words : Rupees Nine lakh Two thousand Four hundred and Fifty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** Estimate for installation of Data Acquisition compatible Extensible type Ring Main Unit with VCB -CTC (E)  
(Cable -Transformer -Cable )

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	RMU 11kV 630 A CTC(E) + DA-(CCV+ +DA) or (RRL + +DA)	678500.00	E	1	678500.00
2	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	1	2985.75
3	Cable End Termination Kit 11 kV XLPE 3c x 185 Sq.mm -Heat Shrinkable (Outdoor)	2714.00	E	2	5428.00
4	Cable 11kV XLPE AL UG 3c X185 sq mm (Armoured)	1298.00	m	5	6490.00
5	GI STRIP 32X6	91.00	kg	16	1456.00
6	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
7	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
8	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
9	Cable End Termination Kit 11 kV XLPE 3c x 300 Sq.mm -Heat Shrinkable (In door)	1599.00	E	3	4797.00
Material Total					703814.35
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
2	RMUs with two nos load break switches & one VCB	56355.23	No	1	56355.23
3	Providing Transformer/RMU fencing to a height of 1.8 m above ground level using MS Angle frames of size ISA 50x50x6mm for outer frame, 2 runs of 40 x 6 MS flat for horizontal bracing and grills with MS rods 8 mm Dia @ 10cm c/c for verticals, providing gate with locking arrangements, providing danger board & name board, embedding the legs in cement concrete 1:2:4, footing of size 30cmx30cmx50cm, painting with synthetic enamel paint two coats over one coat of iron primer etc complete, incl cost of transportation	1589.72	sq.m	24	38153.28
4	Cleaning and levelling of transformer yard/RMU, spreading 40 mm broken stone in yard for a thickness of 10 cm above bed of 10 cm thick 6 mm broken stone, after constructing a curb wall of height 20cm above ground and 10cm below level including cost of all materials and charges for conveying, spreading, consolidating etc.	769.18	sq.m	15	11537.70
5	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
				Labour Total	117679.65
				Centage Charge	112610.30
				Overhead Charge	11767.97
				Total Estimate Amount	945872.27
Estimate Amount in figures : Rs. 945,872					
Estimate Amount in words : Rupees Nine lakh Forty Five thousand Eight hundred and Seventy Two					



**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for installation of Data Acquisition compatible Extensible add-on type Ring Main Unit without VCB (Single Switch C-Extension)

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	RMU 11kV 630 A C(E) + DA-(C+DA) or (R+DA)	341632.00	E	1	341632.00
2	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	1	2985.75
3	GI STRIP 32X6	91.00	kg	8	728.00
4	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	1	1056.00
5	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	1	1009.00
6	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.12	13.80
7	Cable End Termination Kit 11 kV XLPE 3c x 300 Sq.mm -Heat Shrinkable (In door)	1599.00	E	1	1599.00
Material Total					349023.55
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
2	Mounting and connecting HT XLPE UG cable ends of all sizes upto and including 3x300 sq mm with special type cable clamps, bolts, nuts, terminal protectors etc.including cost of extra materials if needed and giving necessary jumper connections.	1169.86	No	1	1169.86
3	Additional rate for RMUs with one additional Load Break switch / VCB	14202.50	No	1	14202.50
4	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	1	4245.59
Labour Total					22760.21
Centage Charge					55843.77
Overhead Charge					2276.02
Total Estimate Amount					429903.55
Estimate Amount in figures : Rs. 429,904					
Estimate Amount in words : Rupees Four lakh Twenty Nine thousand Nine hundred and Four					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** Estimate for installation of Data Acquisition compatible, Extensible, add-on type Ring Main Unit with VCB (Single Switch T-Extension)

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	RMU 11kV 630 A T (E) + DA-(V+DA) or (L+DA)	437849.00	E	1	437849.00
2	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	1	2985.75
3	Cable End Termination Kit 11 kV XLPE 3c x 185 Sq.mm -Heat Shrinkable (Outdoor)	2714.00	E	2	5428.00
4	Cable 11kV XLPE AL UG 3c X185 sq mm (Armoured)	1298.00	m	5	6490.00
5	GI STRIP 32X6	91.00	kg	16	1456.00
6	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
7	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
8	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
Material Total					458366.35
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
2	Mounting and connecting HT XLPE UG cable ends of all sizes upto and including 3x300 sq mm with special type cable clamps, bolts, nuts, terminal protectors etc.including cost of extra materials if needed and giving necessary jumper connections.	1169.86	No	1	1169.86
3	Additional rate for RMUs with one additional Load Break switch / VCB	14202.50	No	1	14202.50
4	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18
Labour Total					27005.80
Centage Charge					73338.62
Overhead Charge					2700.58
Total Estimate Amount					561411.35
Estimate Amount in figures : Rs. 561,411					
Estimate Amount in words : Rupees Five lakh Sixty One thousand Four hundred and Eleven					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for installation of Data Acquisition compatible Extensible type Ring Main Unit with provision for isolation and earthing facility on both sides (gCCg)

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	RMU 11kV 630 A gCg -SCADA COMPATIBLE	402648.00	E	1	402648.00
2	CROSS ARM GI CHANNEL 100X50 mm 3 M	2985.75	E	1	2985.75
3	GI STRIP 32X6	91.00	kg	16	1456.00
4	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
5	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
6	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
7	Cable End Termination Kit 11 kV XLPE 3c x 300 Sq.mm -Heat Shrinkable (In door)	1599.00	E	3	4797.00
Material Total					416044.35
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Providing Transformer/RMU fencing to a height of 1.8 m above ground level using MS Angle frames of size ISA 50x50x6mm for outer frame, 2 runs of 40 x 6 MS flat for horizontal bracing and grills with MS rods 8 mm Dia @ 10cm c/c for verticals, providing gate with locking arrangements, providing danger board & name board, embedding the legs in cement concrete 1:2:4, footing of size 30cmx30cmx50cm, painting with synthetic enamel paint two coats over one coat of iron primer etc complete, incl cost of transportation	1589.72	sq.m	24	38153.28
2	Cleaning and levelling of transformer yard/RMU, spreading 40 mm broken stone in yard for a thickness of 10 cm above bed of 10 cm thick 6 mm broken stone, after constructing a curb wall of height 20cm above ground and 10cm below level including cost of all materials and charges for conveying, spreading, consolidating etc.	769.18	sq.m	15	11537.70
3	Transporting Transformers/RMUs by hired vehicle to a distance upto 5km and carrying upto 2 numbers of 63/100/160/250kVA Transformers / Ring Main Units excluding loading& unloading charges.	3142.26	Trip	1	3142.26
4	RMU Bus Couplers / Add-On units with Load Break switch(s) & Earth switch	37398.00	No	1	37398.00
5	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18
Labour Total					98722.42
Centage Charge					66567.10

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
				Overhead Charge	9872.25
				Total Estimate Amount	591206.12
Estimate Amount in figures : Rs. 591,206					
Estimate Amount in words : Rupees Five lakh Ninety One thousand Two hundred and Six					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Estimate for drawing 1Km of HT ABC of size 3X150 + 1X120 sqmm on 9 mtsPSC Pole supports**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
2	GI WIRE 6MM DIA 4 SWG	93.00	kg	12	1116.00
3	Channel cross arm GI 75 x 40 x 6 mm 2.4 mt	1589.35	E	9	14304.15
4	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	3	1222.83
5	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	1.5	172.50
6	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	7.56	869.40
7	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	10.5	1207.50
8	Pole PSC 9 M	3908.00	E	38	148504.00
9	CLAMP GI FOR HT CROSS ARM	173.65	E	4	694.60
10	Stay Insulator Porcelain 11k V	40.00	E	29	1160.00
11	STAY TIGHTNER HT	395.00	E	28	11060.00
12	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	142	11360.00
13	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	28	11340.00
14	Helically formed Guy-Grip HT	91.00	E	168	15288.00
15	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	112	3360.00
16	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI))	572.00	E	27	15444.00
17	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	33	6864.00
18	Ferrules 5 Sq.mm(GI)	12.00	E	33	396.00
19	G.I.WIRE. 4MM (8 SWG)	81.00	kg	41	3321.00
20	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	264	2640.00
21	SS strap for clamping earth wire	36.00	m	132	4752.00
22	Termination Kit(3 Nos) for HT ABC 150 Sq.mm	1878.00	Set	6	11268.00
23	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	4	4224.00
24	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	4	4036.00
25	Earth Connector 95 Sqmm	91.00	E	4	364.00
26	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.48	55.20
27	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	4	24.00
28	Aerial Bunched Cable HT 3x150 + 1x120 sq.mm (Insulated Messenger)	1117.77	m	1106	1236253.62
29	Lightning Arrester 9 kV,10 KA (Station class) Composite Polymer	2028.00	E	6	12168.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	Housing				
30	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	No	20	80.00
31	Stainless Steel Strap [20 mm x 0.7 mm]	36.00	m	43	1548.00
32	Stainless steel Buckles [20.5 mm x 1.5 mm; thickness 1.2 mm]	6.00	E	86	516.00
33	Suspension Clamp Assembly for HT AB Cables up to 150 sq.mm	416.00	E	27	11232.00
34	Anchoring /Dead end Clamp Assembly for HT AB Cables up to 150 sq.mm	571.00	E	16	9136.00
Material Total					1562686.80

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one set AB switch on existing DP, giving connection and drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing.	2795.55	No	1	2795.55
2	Fitting one Additional 2.4m/3m Channel cross arm (100x50x6mm), in existing 11kV DP including conveyance of materials.	564.55	No	5	2822.75
3	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	9	150.57
4	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	2	17471.64
5	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	38	28961.32
6	Fitting and providing one HT Fly stay for 11kV pole using HT PSC pole including digging and back filling pits in ordinary soil, drawing sufficient length of GI earth leads to the ground for earthing (excluding provision of earthing).	4805.95	No	1	4805.95
7	Fitting and erecting one HT PSC Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	3274.36	No	33	108053.88
8	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	27	37090.71
9	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	33	35845.59
10	Fiting One no MVT on existing cross arm including 2 nos end termination (for One phase) of any rating for 11 kV AB Cable	963.00	E	3	2889.00
11	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	4	16982.36
12	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8.75	27494.78

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
13	Erection of suspension clamp for 11KV ABC of any size	164.67	E	27	4446.09
14	Stringing of 11 kV Aerial bunched cable of size 3 x 150 + 1 x 120 sqmm with bare/insulated Messenger through existing poles	50.72	m	1000	50720.00
15	Erection of Anchor clamp / dead end clamp for 11kV ABC of any size	164.67	E	16	2634.72
				Labour Total	343164.91
				Centage Charge	250029.89
				Overhead Charge	34316.50
				Total Estimate Amount	2190198.10
Estimate Amount in figures : Rs. 2,190,198					
Estimate Amount in words : Rupees Twenty One lakh Ninety thousand One hundred and Ninety Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Estimate for drawing 1Km of HT ABC of size 3X120 + 1X95 on 9 mts PSC Pole supports

**UNIT :** kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Air Break Switch (AB Switch) 11kV 400 A , Composite Polymer Housing	16706.00	E	1	16706.00
2	GI WIRE 6MM DIA 4 SWG	93.00	kg	12	1116.00
3	Channel cross arm GI 75 x 40 x 6 mm 2.4 mt	1589.35	E	9	14304.15
4	Channel Cross arm for LT 2 Pin -GI 75 x 40 x 6 mm-0.510 mt (2 line Cross arm)	407.61	E	3	1222.83
5	Bolt & Nut GI FT M 12 x 150 (6"x 1/2")	115.00	kg	1.5	172.50
6	BOLT & NUT GI HT 200mm x 19mm	115.00	kg	7.56	869.40
7	Bolt& Nut GI M 20 x 250 (9 3/4"x3/4")	115.00	kg	10.5	1207.50
8	Pole PSC 9 M	3908.00	E	38	148504.00
9	CLAMP GI FOR HT CROSS ARM	173.65	E	4	694.60
10	Stay Insulator Porcelain 11k V	40.00	E	29	1160.00
11	Anchor Plate 200 x 200 x 8 mm GI (HT Stay Plate GI))	572.00	E	27	15444.00
12	STAY TIGHTNER HT	395.00	E	28	11060.00
13	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	142	11360.00
14	Stay Rod (Anchor Rod) GI 20 mm dia (HT Stay Rod)	405.00	E	28	11340.00
15	Helically formed Guy-Grip HT	91.00	E	168	15288.00
16	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	112	3360.00
17	Aerial Bunched Cable HT 3x120 + 1x95 sq.mm (Insulated Messenger)	1000.21	m	1105	1105232.05
18	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	33	6864.00
19	Ferrules 5 Sq.mm(GI)	12.00	E	33	396.00
20	G.I.WIRE. 4MM (8 SWG)	81.00	kg	41	3321.00
21	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	264	2640.00
22	SS strap for clamping earth wire	36.00	m	132	4752.00
23	MVT Kit For HT ABC	3852.00	E	1	3852.00
24	Heat Shrinkable Termination Kit (3 Nos) for 120 Sq.mm Three phase Aerial Bunched Cable	1009.00	Set	4	4036.00
25	Stainless Steel Strap [20 mm x 0.7 mm]	36.00	m	43	1548.00
26	Stainless steel Buckles [20.5 mm x 1.5 mm; thickness 1.2 mm]	6.00	E	86	516.00
27	Anchoring /Dead end Clamp Assembly for HT AB Cables up to 120 sq.mm	468.00	E	16	7488.00
28	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	4	4224.00



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
29	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	4	4036.00
30	Earth Connector 95 Sqmm	91.00	E	4	364.00
31	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.48	55.20
32	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	4	24.00
33	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	No	20	80.00
34	Suspension Clamp Assembly for HT AB Cables up to 120 sq.mm	316.00	E	27	8532.00
Material Total					1411769.23
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Fitting one set AB switch on existing DP, giving connection and drawing sufficient length of GI earthing leads to the ground for earthing, excluding provision of earthing.	2795.55	No	1	2795.55
2	Fitting one Additional 2.4m/3m Channel cross arm (100x50x6mm), in existing 11kV DP including conveyance of materials.	564.55	No	5	2822.75
3	Drilling hole of various sizes on existing Channel/Cross Arm.	16.73	No	9	150.57
4	Fitting and erecting one HT Double Pole Structure using PSC pole in position including fitting 2 channel cross arms, digging and back filling pit in ordinary soil, drawing sufficient length of GI earthing leads through all cross arms to the ground for earthing (excluding provision of earthing).	8735.82	No	2	17471.64
5	Labour charges for loading HT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	762.14	No	38	28961.32
6	Fitting and erecting one HT PSC Single Pole in position, including fitting cross arm, digging and back filling pit in ordinary soil (as per standards), drawing sufficient length of GI earthing leads from F clamp through V cross arm to the ground for earthing (excluding provision of earthing).	3274.36	No	33	108053.88
7	Fitting and providing one HT Stay for 11kV pole, including digging and back filling pit in ordinary soil.	1373.73	No	27	37090.71
8	Stringing of 11 kV Aerial bunched cable of size 3 x 120 + 1 x 95 sqmm with bare/insulated Messenger through existing poles	45.62	m	1000	45620.00
9	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	33	35845.59
10	Fiting One no MVT on existing cross arm including 2 nos end termination (for One phase) of any rating for 11 kV AB Cable	963.00	E	1	963.00
11	Erection of Anchor clamp / dead end clamp for 11kV ABC of any size	164.67	E	16	2634.72
12	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	4	16982.36
13	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	8.75	27494.78

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
14	Fitting and providing one HT Fly stay for 11kV pole using HT PSC pole including digging and back filling pits in ordinary soil, drawing sufficient length of GI earth leads to the ground for earthing (excluding provision of earthing).	4805.95	No	1	4805.95
15	Erection of suspension clamp for 11KV ABC of any size	164.67	E	27	4446.09
Labour Total					336138.91
Centage Charge					225883.08
Overhead Charge					33613.90
Total Estimate Amount					2007405.12
Estimate Amount in figures : Rs. 2,007,405					
Estimate Amount in words : Rupees Twenty lakh Seven thousand Four hundred and Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Estimate for drawing 1Km of LT ABC of size 3X70 + 1X50 +1X16 on 8 mts PSC Pole supports**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	End Cap for ABC 50 Sq mm	7.00	E	2	14.00
2	End Cap for ABC 16 Sq mm	5.00	E	2	10.00
3	Anchoring /Dead end Clamp Assembly for LT AB Cables up to 70 sq.mm	281.00	E	18	5058.00
4	End Cap for ABC 70 Sq mm	5.00	E	6	30.00
5	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	68	612.00
6	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	26	806.00
7	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	20	80.00
8	Pole PSC 8 M	3364.18	E	37	124474.66
9	Stay Insulator Porcelain 415/240 V	15.00	E	35	525.00
10	Clamp GI for LT Stay for Angular location	240.99	E	34	8193.66
11	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	34	7752.00
12	STAY TIGHTNER LT	251.00	E	34	8534.00
13	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	34	9656.00
14	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	140	11200.00
15	Helically formed Guy-Grip HT	91.00	E	6	546.00
16	Helically formed Guy-Grip LT	140.00	E	204	28560.00
17	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	136	4080.00
18	Clamp GI For 8 mt Strut Pole (For Pole)	103.25	E	6	619.50
19	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.99	113.85
20	Clamp GI For 8 mt Strut Pole (For Strut)	103.25	No	6	619.50
21	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	8	1664.00
22	Ferrules 5 Sq.mm(GI)	12.00	E	8	96.00
23	G.I.WIRE. 4MM (8 SWG)	81.00	kg	12	972.00
24	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	64	640.00
25	SS strap for clamping earth wire	36.00	m	32	1152.00
26	Aerial Bunched Cable LT 3x70 + 1x50 + 1x16 sq.mm (Insulated Messenger)	280.00	m	1100	308000.00
27	Suspension Clamp Assembly for LT AB Cables up to 70 sq.mm	222.00	E	24	5328.00
28	Pre-Insulated Midspan Joints and Terminal Lugs 16 Sq.mm	93.00	E	3	279.00
29	Pre-Insulated Midspan Joints and Terminal Lugs 50 Sq.mm	91.00	E	3	273.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
30	Pre-Insulated Midspan Joints and Terminal Lugs 70 Sq.mm	77.00	E	12	924.00
31	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
32	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
33	Earth Connector 95 Sqmm	91.00	E	2	182.00
34	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
35	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	2	12.00
36	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	8	512.00
Material Total					535675.77
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	18	2964.06
2	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	33	66585.09
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	37	17716.34
4	Providing Fly stay for LT pole using LT PSC pole including digging and back filling pit in ordinary soil.	3062.14	No	1	3062.14
5	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	33	30981.06
6	Providing Strut using LT PSC pole including digging and back filling pit in ordinary soil.	1887.05	No	3	5661.15
7	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	8	8689.84
8	Stringing of 1.1 kV Aerial bunched cable of size 3 x 70 + 1 x 16+1x 50 sqmm with bare/insulated Messenger through existing poles	40.52	m	1000	40520.00
9	Transporting LT ABC by hired vehicle to a distance up to 5 km and carrying up to 2 drum including loading and un loading using crane	4999.05	Trip	1	4999.05
10	Erection of suspension clamp for LT ABC of any size	164.67	E	24	3952.08
11	Installation of Pre-insulated straight through joints for 16sqmm cable	96.31	E	3	288.93
12	Installation of Pre-insulated straight through joints for 50sqmm cable	96.31	E	3	288.93
13	Installation of Pre-insulated straight through joints for 70sqmm cable	96.31	E	12	1155.72
14	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
15	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18
16	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	8	462.32
Labour Total					196603.46

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
				Centage Charge	85708.13
				Overhead Charge	19660.36
				Total Estimate Amount	837647.72
Estimate Amount in figures : Rs. 837,648					
Estimate Amount in words : Rupees Eight lakh Thirty Seven thousand Six hundred and Forty Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Additional rate for stringing LT Single phase 2 wire line

**UNIT** : meter

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	2.1	88.20
Material Total					88.20
Centage Charge					14.11
Overhead Charge					0.00
Total Estimate Amount					102.31
Estimate Amount in figures : Rs. 102					
Estimate Amount in words : Rupees One hundred and Two					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Additional rate for stringing LT Three phase 4 wire line

**UNIT** : meter

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Conductor ACSR Rabbit	42.00	m	4.2	176.40
				Material Total	176.40
				Centage Charge	28.22
				Overhead Charge	0.00
				Total Estimate Amount	204.62
Estimate Amount in figures : Rs. 205					
Estimate Amount in words : Rupees Two hundred and Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : LT single phase over head service Line using LT AB Cable of Size 2x25 sqmm upto and including 40 m with max. 1 Post

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	2	494.00
2	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	4	36.00
3	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
4	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	4	124.00
5	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
6	Pole PSC 8 M	3364.18	E	1	3364.18
7	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
8	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
9	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
10	STAY TIGHTNER LT	251.00	E	1	251.00
11	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
12	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
13	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
14	Helically formed Guy-Grip LT	140.00	E	6	840.00
15	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
16	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
17	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
18	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
19	SS strap for clamping earth wire	36.00	m	4	144.00
Material Total					7020.17
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	1	2017.73
3	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	1	478.82
4	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
5	Transporting poles by hired vehicle to a distance upto 5km and	3142.26	Trip	0.25	785.57



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	carrying upto 4 numbers of poles excluding loading& unloading charges.				
6	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
Labour Total					5636.51
Centage Charge					1123.23
Overhead Charge					563.65
Total Estimate Amount					14343.56
Estimate Amount in figures : Rs. 14,344					
Estimate Amount in words : Rupees Fourteen thousand Three hundred and Forty Four					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** LT single phase over head service Line using LT AB Cable of Size 2x25 sqmm above 40 upto and including 80 m with max. 2 Post

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	2	494.00
2	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	6	54.00
3	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
4	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	6	186.00
5	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
6	Suspension Clamp Assembly for LT AB Cables 25 sq.mm	282.00	Set	1	282.00
7	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
8	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
9	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
10	STAY TIGHTNER LT	251.00	E	2	502.00
11	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
12	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
13	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
14	Helically formed Guy-Grip LT	140.00	E	12	1680.00
15	Pole PSC 8 M	3364.18	E	2	6728.36
16	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
17	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
18	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
19	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
20	SS strap for clamping earth wire	36.00	m	4	144.00
Material Total					13045.34
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Erection of suspension clamp for LT ABC of any size	164.67	E	1	164.67
3	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
4	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	2	4035.46
5	Labour charges for loading LT PSC pole from the stacking place	478.82	No	2	957.64

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	and unloading the same at work site (transportation by any vehicle).				
6	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
7	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
Labour Total					10022.11
Centage Charge					2087.26
Overhead Charge					1002.20
Total Estimate Amount					26156.91
Estimate Amount in figures : Rs. 26,157					
Estimate Amount in words : Rupees Twenty Six thousand One hundred and Fifty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : LT single phase over head service Line using LT AB Cable of Size 2x25 sqmm above 80 upto and including 120 m with max. 3 Post

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	4	988.00
2	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	8	72.00
3	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
4	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	8	248.00
5	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
6	Suspension Clamp Assembly for LT AB Cables 25 sq.mm	282.00	Set	1	282.00
7	Pole PSC 8 M	3364.18	E	3	10092.54
8	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
9	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
11	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
12	SS strap for clamping earth wire	36.00	m	4	144.00
13	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
14	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
15	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
16	STAY TIGHTNER LT	251.00	E	2	502.00
17	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
18	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
19	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
20	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					16983.52
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	4	658.68
2	Erection of suspension clamp for LT ABC of any size	164.67	E	1	164.67
3	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	3	6053.19
4	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	3	1436.46
5	Transporting poles by hired vehicle to a distance upto 5km and	3142.26	Trip	0.75	2356.70

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	carrying upto 4 numbers of poles excluding loading& unloading charges.				
6	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
				Labour Total	13633.57
				Centage Charge	2717.37
				Overhead Charge	1363.35
				Total Estimate Amount	34697.81
Estimate Amount in figures : Rs. 34,698					
Estimate Amount in words : Rupees Thirty Four thousand Six hundred and Ninety Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** LT single phase over head service Line using LT AB Cable of Size 2x25 sqmm above 120 upto and including 160 m with max. 4 Post

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	4	988.00
2	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	10	90.00
3	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
4	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	10	310.00
5	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
6	Suspension Clamp Assembly for LT AB Cables 25 sq.mm	282.00	Set	2	564.00
7	Pole PSC 8 M	3364.18	E	4	13456.72
8	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
9	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
11	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
12	SS strap for clamping earth wire	36.00	m	4	144.00
13	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
14	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
15	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
16	STAY TIGHTNER LT	251.00	E	2	502.00
17	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
18	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
19	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
20	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					20709.70
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	4	658.68
2	Erection of suspension clamp for LT ABC of any size	164.67	E	2	329.34
3	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	4	8070.92
4	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	4	1915.28
5	Transporting poles by hired vehicle to a distance upto 5km and	3142.26	Trip	1	3142.26

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	carrying upto 4 numbers of poles excluding loading& unloading charges.				
6	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
				Labour Total	17080.35
				Centage Charge	3313.56
				Overhead Charge	1708.02
				Total Estimate Amount	42811.63
Estimate Amount in figures : Rs. 42,812					
Estimate Amount in words : Rupees Forty Two thousand Eight hundred and Twelve					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** LT single phase over head service Line using LT AB Cable of Size 2x25 sqmm above 160 upto and including 200 m with max. 5 Post

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	4	988.00
2	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	12	108.00
3	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
4	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	12	372.00
5	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
6	Suspension Clamp Assembly for LT AB Cables 25 sq.mm	282.00	Set	3	846.00
7	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
8	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
9	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
10	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
11	SS strap for clamping earth wire	36.00	m	4	144.00
12	Pole PSC 8 M	3364.18	E	5	16820.90
13	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
14	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
15	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
16	STAY TIGHTNER LT	251.00	E	2	502.00
17	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
18	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
19	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
20	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					24435.88
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	4	658.68
2	Erection of suspension clamp for LT ABC of any size	164.67	E	3	494.01
3	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
4	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	5	10088.65



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
5	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	5	2394.10
6	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	1.25	3927.83
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
				Labour Total	20527.14
				Centage Charge	3909.74
				Overhead Charge	2052.70
				Total Estimate Amount	50925.46
Estimate Amount in figures : Rs. 50,925					
Estimate Amount in words : Rupees Fifty thousand Nine hundred and Twenty Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME :** LT Three phase over head service Line using LT AB Cable of Size 3x70+1x50+1x16 sqmm upto and including 40 m with max. 1 Post

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	End Cap for ABC 50 Sq mm	7.00	E	2	14.00
2	End Cap for ABC 16 Sq mm	5.00	E	2	10.00
3	Anchoring /Dead end Clamp Assembly for LT AB Cables up to 70 sq.mm	281.00	E	2	562.00
4	End Cap for ABC 70 Sq mm	5.00	E	6	30.00
5	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	4	36.00
6	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	2	62.00
7	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	20	80.00
8	Pole PSC 8 M	3364.18	E	1	3364.18
9	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
10	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
11	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
12	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
13	SS strap for clamping earth wire	36.00	m	4	144.00
14	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
15	Stay Insulator Porcelain 415/240 V	15.00	E	1	15.00
16	Clamp GI for LT Stay for Angular location	240.99	E	1	240.99
17	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	1	228.00
18	STAY TIGHTNER LT	251.00	E	1	251.00
19	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	1	284.00
20	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	4	320.00
21	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	4	120.00
22	Helically formed Guy-Grip LT	140.00	E	6	840.00
Material Total					7238.17
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	1	2017.73
3	Labour charges for loading LT PSC pole from the stacking place	478.82	No	1	478.82

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	and unloading the same at work site (transportation by any vehicle).				
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
5	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
6	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	1	938.82
Labour Total					5867.67
Centage Charge					1158.11
Overhead Charge					586.77
Total Estimate Amount					14850.72
Estimate Amount in figures : Rs. 14,851					
Estimate Amount in words : Rupees Fourteen thousand Eight hundred and Fifty One					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : LT Three phase over head service Line using LT AB Cable of Size 3x70+1x50+1x16 sqmm above 40m upto and including 80 m with max. 2 Post

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	End Cap for ABC 50 Sq mm	7.00	E	2	14.00
2	End Cap for ABC 16 Sq mm	5.00	E	2	10.00
3	Anchoring /Dead end Clamp Assembly for LT AB Cables up to 70 sq.mm	281.00	E	2	562.00
4	End Cap for ABC 70 Sq mm	5.00	E	6	30.00
5	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	6	54.00
6	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	3	93.00
7	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	20	80.00
8	Suspension Clamp Assembly for LT AB Cables up to 70 sq.mm	222.00	E	1	222.00
9	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
10	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
11	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
12	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
13	SS strap for clamping earth wire	36.00	m	4	144.00
14	Pole PSC 8 M	3364.18	E	2	6728.36
15	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
16	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
17	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
18	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI)	228.00	E	2	456.00
19	STAY TIGHTNER LT	251.00	E	2	502.00
20	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
21	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
22	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
23	Helically formed Guy-Grip LT	140.00	E	12	1680.00
Material Total					13172.34
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Erection of suspension clamp for LT ABC of any size	164.67	E	1	164.67

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
3	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	1	1086.23
4	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	2	4035.46
5	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	2	957.64
6	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.5	1571.13
7	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
8	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
				Labour Total	10253.27
				Centage Charge	2107.58
				Overhead Charge	1025.32
				Total Estimate Amount	26558.51
Estimate Amount in figures : Rs. 26,559					
Estimate Amount in words : Rupees Twenty Six thousand Five hundred and Fifty Nine					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : LT Three phase over head service Line using LT AB Cable of Size 3x70+1x50+1x16 sqmm above 80m upto and including 120 m with max. 3 Post

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	End Cap for ABC 50 Sq mm	7.00	E	2	14.00
2	End Cap for ABC 16 Sq mm	5.00	E	2	10.00
3	Anchoring /Dead end Clamp Assembly for LT AB Cables up to 70 sq.mm	281.00	E	2	562.00
4	End Cap for ABC 70 Sq mm	5.00	E	6	30.00
5	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	8	72.00
6	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	4	124.00
7	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	20	80.00
8	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
9	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
11	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
12	SS strap for clamping earth wire	36.00	m	4	144.00
13	Pole PSC 8 M	3364.18	E	3	10092.54
14	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
15	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
16	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
17	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
18	STAY TIGHTNER LT	251.00	E	2	502.00
19	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
20	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
21	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
22	Helically formed Guy-Grip LT	140.00	E	12	1680.00
23	Suspension Clamp Assembly for LT AB Cables up to 70 sq.mm	222.00	E	2	444.00
Material Total					16807.52
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard	1086.23	No	1	1086.23

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	distance away from the pole/structure in ordinary soil & backfilling.				
3	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	3	6053.19
4	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	3	1436.46
5	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.75	2356.70
6	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
8	Erection of suspension clamp for LT ABC of any size	164.67	E	2	329.34
				Labour Total	13700.06
				Centage Charge	2689.21
				Overhead Charge	1370.00
				Total Estimate Amount	34566.79
Estimate Amount in figures : Rs. 34,567					
Estimate Amount in words : Rupees Thirty Four thousand Five hundred and Sixty Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : LT Three phase over head service Line using LT AB Cable of Size 3x70+1x50+1x16 sqmm above 120m upto and including 160 m with max. 4 Post

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	End Cap for ABC 50 Sq mm	7.00	E	2	14.00
2	End Cap for ABC 16 Sq mm	5.00	E	2	10.00
3	Anchoring /Dead end Clamp Assembly for LT AB Cables up to 70 sq.mm	281.00	E	2	562.00
4	End Cap for ABC 70 Sq mm	5.00	E	6	30.00
5	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	10	90.00
6	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	5	155.00
7	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	20	80.00
8	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
9	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
11	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
12	SS strap for clamping earth wire	36.00	m	4	144.00
13	Pole PSC 8 M	3364.18	E	4	13456.72
14	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
15	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
16	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
17	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
18	STAY TIGHTNER LT	251.00	E	2	502.00
19	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
20	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
21	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
22	Helically formed Guy-Grip LT	140.00	E	12	1680.00
23	Suspension Clamp Assembly for LT AB Cables up to 70 sq.mm	222.00	E	3	666.00
Material Total					20442.70
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard	1086.23	No	1	1086.23



LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	distance away from the pole/structure in ordinary soil & backfilling.				
3	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	4	8070.92
4	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	4	1915.28
5	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	1	3142.26
6	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
8	Erection of suspension clamp for LT ABC of any size	164.67	E	3	494.01
				Labour Total	17146.84
				Centage Charge	3270.84
				Overhead Charge	1714.68
				Total Estimate Amount	42575.06
Estimate Amount in figures : Rs. 42,575					
Estimate Amount in words : Rupees Forty Two thousand Five hundred and Seventy Five					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS**

**TASK NAME** : LT Three phase over head service Line using LT AB Cable of Size 3x70+1x50+1x16 sqmm above 160m upto and including 200 m with max. 5 Post

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	End Cap for ABC 50 Sq mm	7.00	E	2	14.00
2	End Cap for ABC 16 Sq mm	5.00	E	2	10.00
3	Anchoring /Dead end Clamp Assembly for LT AB Cables up to 70 sq.mm	281.00	E	2	562.00
4	End Cap for ABC 70 Sq mm	5.00	E	6	30.00
5	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	12	108.00
6	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	6	186.00
7	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	20	80.00
8	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	1	208.00
9	Ferrules 5 Sq.mm(GI)	12.00	E	1	12.00
10	G.I.WIRE. 4MM (8 SWG)	81.00	kg	1	81.00
11	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	8	80.00
12	SS strap for clamping earth wire	36.00	m	4	144.00
13	Pole PSC 8 M	3364.18	E	5	16820.90
14	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
15	Stay Insulator Porcelain 415/240 V	15.00	E	2	30.00
16	Clamp GI for LT Stay for Angular location	240.99	E	2	481.98
17	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	2	456.00
18	STAY TIGHTNER LT	251.00	E	2	502.00
19	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	2	568.00
20	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	8	640.00
21	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	8	240.00
22	Helically formed Guy-Grip LT	140.00	E	12	1680.00
23	Suspension Clamp Assembly for LT AB Cables up to 70 sq.mm	222.00	E	4	888.00
Material Total					24077.88
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	2	329.34
2	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard	1086.23	No	1	1086.23

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	distance away from the pole/structure in ordinary soil & backfilling.				
3	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	5	10088.65
4	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	5	2394.10
5	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	1.25	3927.83
6	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
7	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	2	1877.64
8	Erection of suspension clamp for LT ABC of any size	164.67	E	4	658.68
				Labour Total	20593.63
				Centage Charge	3852.46
				Overhead Charge	2059.36
				Total Estimate Amount	50583.33
Estimate Amount in figures : Rs. 50,583					
Estimate Amount in words : Rupees Fifty thousand Five hundred and Eighty Three					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Additional Rate for Drawing LT Single Phase ABC Service connection line

**UNIT :** meter

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Aerial Bunched Cable LT 1x25 + 1x25 (Insulated Messenger)	54.04	m	1.1	59.44
Material Total					59.44
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Transporting LT ABC by hired vehicle to a distance up to 5 km and carrying up to 2 drum including loading and un loading using crane	4999.05	Trip	0.001	5.00
2	Stringing of 1.1 kV Aerial bunched cable of size 1 x 25 + 1 x 25 sqmm with bare/insulated Messenger through existing poles	26.85	m	1	26.85
Labour Total					31.85
Centage Charge					9.51
Overhead Charge					3.19
Total Estimate Amount					103.99
Estimate Amount in figures : Rs. 104					
Estimate Amount in words : Rupees One hundred and Four					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : Additional Rate for "Drawing LT three Phase ABC Service connection line"

**UNIT** : meter

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Aerial Bunched Cable LT 3x70 + 1x50 + 1x16 sq.mm (Insulated Messenger)	280.00	m	1.1	308.00
Material Total					308.00
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Stringing of 1.1 kV Aerial bunched cable of size 3 x 70 + 1 x 16+1x 50 sqmm with bare/insulated Messenger through existing poles	40.52	m	1	40.52
2	Transporting LT ABC by hired vehicle to a distance up to 5 km and carrying up to 2 drum including loading and un loading using crane	4999.05	Trip	0.001	5.00
Labour Total					45.52
Centage Charge					49.28
Overhead Charge					4.55
Total Estimate Amount					407.35
Estimate Amount in figures : Rs. 407					
Estimate Amount in words : Rupees Four hundred and Seven					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** LT single phase weather proof service connection upto and including 5kW ( using static meter with LCD facility) from LT AB Cable

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 1x 230V Class 1.0 5-30A Static LCD with ToD(DLMS Compliant)	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Cable 1.1kV PVC Insulated AL Twin Core 2.5 Sq.mm PVC Sheathed Weather Proof (TC Weather Proof Wire 1/1.8)	9.00	m	40	360.00
4	GI Wire 9 SWG	81.00	kg	3.5	283.50
5	Cable Tie UV Plastic Heavy Duty 250 mm Length	3.00	E	10	30.00
6	IPC FOR ABC 3X95+1X70+1X16 Tap 1.5-10 sqmm	77.00	E	2	154.00
Material Total					837.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one single phase WP service connection including conveyance of materials, fixing meter, drawing WP wire, with GI support wire etc. as per standards.	1733.36	No	1	1733.36
2	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	2	115.58
Labour Total					1848.94
Centage Charge					134.00
Overhead Charge					184.90
Total Estimate Amount					3005.34
Estimate Amount in figures : Rs. 3,005					
Estimate Amount in words : Rupees Three thousand and Five					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : LT three phase weather proof service connection up to and including 10 KW ( using static meter with LCD display and TOD facility) from LT AB Cable

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Cable 1.1kV PVC Insulated AL Twin Core 6 Sq.mm PVC Sheathed Weather Proof (TC Weather Proof Wire 1/2.8)	16.00	m	80	1280.00
4	GI Wire 9 SWG	81.00	kg	3.5	283.50
5	Cable Tie UV Plastic Heavy Duty 250 mm Length	3.00	E	10	30.00
6	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
Material Total					1859.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (upto 10kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2579.14	No	1	2579.14
2	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
Labour Total					2810.30
Centage Charge					297.52
Overhead Charge					281.03
Total Estimate Amount					5248.35
Estimate Amount in figures : Rs. 5,248					
Estimate Amount in words : Rupees Five thousand Two hundred and Forty Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME** : LT three phase weather proof service connection above 10kW upto and including 25kW ( using static meter with LCD display and TOD facility)from LT AB Cable

**UNIT** : each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	EM 3x 230V Class 1.0, 10-60A, Static, LCD Display with ToD Facility	0.00	E	1	0.00
2	Poly Carbonate Seal	5.00	E	2	10.00
3	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	4	24.00
4	Cable 1.1kV PVC AL 1c x 50 sq mm (Un Armoured)	64.00	m	160	10240.00
5	GI Wire 9 SWG	81.00	kg	3.5	283.50
6	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
7	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
Material Total					12963.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection (above 10kW to 25kW) including conveyance of materials, fixing meter, drawing WP wire with GI support wire etc. as per standards.	2684.73	No	1	2684.73
2	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
Labour Total					2915.89
Centage Charge					2074.16
Overhead Charge					291.59
Total Estimate Amount					18245.14
Estimate Amount in figures : Rs. 18,245					
Estimate Amount in words : Rupees Eighteen thousand Two hundred and Forty Five					



**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** LT three phase weather proof service connection above 25kW & below 50kVA from LT AB Cable

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415KV 5VA Class 0.5 100/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 95 Sq.mm -Al (Cable Lug)	11.00	E	4	44.00
5	Cable 1.1kV XLPE AL 1c X 95 sq mm (Un Armoured)	91.00	m	160	14560.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
Material Total					17323.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
Labour Total					4002.11
Centage Charge					2771.76
Overhead Charge					400.22
Total Estimate Amount					24497.59
Estimate Amount in figures : Rs. 24,498					
Estimate Amount in words : Rupees Twenty Four thousand Four hundred and Ninety Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** LT three phase weather proof service connection from 50kVA and above upto and including 100kVA from LT AB Cable

**UNIT :** each

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	CT RESIN CAST 0.415kV 5VA Class 0.5S 150/5A	0.00	E	4	0.00
2	EM 3X 230V LCD TOD CLASS 0.5S --/5A (LTCT METER)	0.00	E	1	0.00
3	Poly Carbonate Seal	5.00	E	6	30.00
4	Crimping Socket Palm Type 120 Sq.mm -Al (Cable Lug)	15.00	E	4	60.00
5	Cable 1.1kV XLPE AL 1c X 120 sq mm (Un Armoured)	99.00	m	160	15840.00
6	GI Wire 9 SWG	81.00	kg	3.5	283.50
7	Spacer LT 4 line Composit (For Cable Tray)	215.00	E	10	2150.00
8	Insulation Piercing Connector (IPC Connector) Main 16 sq mm to 95 sq mm; Tap 4 sq.mm to 50 sq.mm	64.00	E	4	256.00
Material Total					18619.50
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Giving one three phase WP service connection using CT including conveyance of materials, fixing meter, CT, drawing WP wire etc. as per standards.	3770.95	No	1	3770.95
2	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	4	231.16
Labour Total					4002.11
Centage Charge					2979.12
Overhead Charge					400.22
Total Estimate Amount					26000.95
Estimate Amount in figures : Rs. 26,001					
Estimate Amount in words : Rupees Twenty Six thousand and One					

**KERALA STATE ELECTRICITY BOARD LIMITED****ESTIMATE DETAILS****TASK NAME** : Constructing LT OH ABC 25 sq mm using PSC Poles**UNIT** : kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Pole PSC 8 M	3364.18	E	37	124474.66
2	Stay Insulator Porcelain 415/240 V	15.00	E	35	525.00
3	Clamp GI for LT Stay for Angular location	240.99	E	34	8193.66
4	Anchor Plate 200 x 200 x 6 mm GI (LT Stay Plate GI))	228.00	E	34	7752.00
5	STAY TIGHTNER LT	251.00	E	34	8534.00
6	Stay Rod (Anchor Rod) GI 16 mm dia (LT Stay Rod)	284.00	E	34	9656.00
7	Stay Wire 7/8 (7/3.15mm) GI (HT Stay Wire)	80.00	kg	140	11200.00
8	Helically formed Guy-Grip HT	91.00	E	6	546.00
9	Helically formed Guy-Grip LT	140.00	E	204	28560.00
10	Thimble GI 75 mm x 22 mm x 40 mm ,1.5 mm Thickness (For HT and LT)	30.00	E	136	4080.00
11	Clamp GI For 8 mt Strut Pole (For Pole)	103.25	E	6	619.50
12	Bolt& Nut GI M 12 x 65 (2 1/2"x 1/2")	115.00	kg	0.99	113.85
13	Clamp GI For 8 mt Strut Pole (For Strut)	103.25	No	6	619.50
14	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	3	624.00
15	Ferrules 5 Sq.mm(GI)	12.00	E	3	36.00
16	G.I.WIRE. 4MM (8 SWG)	81.00	kg	7	567.00
17	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	24	240.00
18	SS strap for clamping earth wire	36.00	m	12	432.00
19	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
20	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
21	Earth Connector 95 Sqmm	91.00	E	2	182.00
22	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
23	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	2	12.00
24	IPC FOR ABC 3X95+1X70+1X16 Tap 1.5-10 sqmm	77.00	E	2	154.00
25	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	18	4446.00
26	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	68	612.00
27	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	68	2108.00
28	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
29	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
30	Pre-Insulated Midspan Joints and Terminal Lugs 35 Sq.mm	152.00	E	6	912.00

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
31	Suspension Clamp Assembly for LT AB Cables 25 sq.mm	282.00	Set	24	6768.00
32	Aerial Bunched Cable LT 1x25 + 1x25 (Insulated Messenger)	54.04	m	1100	59444.00
Material Total					285746.77
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Erecting one LT PSC Pole in position including digging & back filling pit in ordinary soil.	2017.73	No	33	66585.09
2	Labour charges for loading LT PSC pole from the stacking place and unloading the same at work site (transportation by any vehicle).	478.82	No	37	17716.34
3	Providing Fly stay for LT pole using LT PSC pole including digging and back filling pit in ordinary soil.	3062.14	No	1	3062.14
4	Providing Stay for LT poles including digging & back filling pit in ordinary soil.	938.82	No	33	30981.06
5	Providing Strut using LT PSC pole including digging and back filling pit in ordinary soil.	1887.05	No	3	5661.15
6	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	3	3258.69
7	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18
8	Installation of Insulation piercing connector for main to service line main :16-95 sqmm, Tap 16-95 sqmm	57.79	E	2	115.58
9	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
10	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	18	2964.06
11	Installation of Pre-insulated straight through joints for 25sqmm cable	96.31	E	3	288.93
12	Erection of suspension clamp for LT ABC of any size	164.67	E	24	3952.08
13	Transporting LT ABC by hired vehicle to a distance up to 5 km and carrying up to 2 drum including loading and un loading using crane	4999.05	Trip	1	4999.05
14	Stringing of 1.1 kV Aerial bunched cable of size 1 x 25 + 1 x 25 sqmm with bare/insulated Messenger through existing poles	26.85	m	1000	26850.00
Labour Total					175710.92
Centage Charge					45719.49
Overhead Charge					17571.11
Total Estimate Amount					524748.29
Estimate Amount in figures : Rs. 524,748					
Estimate Amount in words : Rupees Five lakh Twenty Four thousand Seven hundred and Forty Eight					

**KERALA STATE ELECTRICITY BOARD LIMITED**

**ESTIMATE DETAILS**

**TASK NAME :** Constructing LT OH ABC 25 sq mm on existing pole

**UNIT :** kilometer

MATERIAL ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	G.I.WIRE. 4MM (8 SWG)	81.00	kg	7	567.00
2	Pipe GI 40 mm dia -2.5 m Length( Earth Pipe)	1056.00	E	2	2112.00
3	Earth Chamber (PVC) With RCC Covering Slab	1009.00	E	2	2018.00
4	Earth Connector 95 Sqmm	91.00	E	2	182.00
5	Bolt & Nut GI M 16 x 40 (1 1/2"x 5/8")	115.00	kg	0.24	27.60
6	Crimping Socket Palm Type 50 Sq.mm -Al(Cable Lug)	6.00	E	2	12.00
7	Earthing Coil GI 115 Turns 50 mm internal Dia dia	208.00	E	3	624.00
8	Ferrules 5 Sq.mm(GI)	12.00	E	3	36.00
9	Stainless Steel Buckle Slot width 10.5 mm x 1.5 mm,Thickness 1.2 mm.	10.00	E	24	240.00
10	SS strap for clamping earth wire	36.00	m	12	432.00
11	IPC FOR ABC 3X95+1X70+1X16 Tap 1.5-10 sqmm	77.00	E	2	154.00
12	Anchoring /Dead end Clamp Assembly for LT AB Cables 25 sq.mm	247.00	Set	18	4446.00
13	Stainless Steel Buckle Slot width 20.5 mm x 1.5 mm,Thickness 1.2 mm.	9.00	E	68	612.00
14	Stainless Steel Strap 20 mm x 0.7 mm	31.00	m	68	2108.00
15	Insulation Piercing Connector - Main: 16 sq mm to 95 sq mm; Tap : 1.5 sq mm to 16 sq mm	69.00	E	2	138.00
16	Cable Tie UV Plastic Heavy Duty 500 mm Length	4.00	E	10	40.00
17	Pre-Insulated Midspan Joints and Terminal Lugs 35 Sq.mm	152.00	E	6	912.00
18	Suspension Clamp Assembly for LT AB Cables 25 sq.mm	282.00	Set	24	6768.00
19	Aerial Bunched Cable LT 1x25 + 1x25 (Insulated Messenger)	54.04	m	1100	59444.00
Material Total					80872.60
LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
1	Providing one Earth using GI earth pipe of size 40mm dia, 2.5m length including digging separate pit (0.45x0.45x2.5m) at standard distance (1.5m) away from the pole/structure in ordinary soil & backfilling the pit with 15cm alternate layer of charcoal, salt and sand up to 90cm from the bottom and providing earth chamber with covering slab. (includes the cost of 20kg salt, 25kg charcoal but excludes cost of earth pipe earth chamber and covering slab).	4245.59	No	2	8491.18
2	Providing one Coil Earth using No.8 GI-earth wire (50mm dia, 115 turns) including digging separate pit (0.45x0.45x1.5m) at standard distance away from the pole/structure in ordinary soil & backfilling.	1086.23	No	3	3258.69
3	Installation of Insulation piercing connector for main to service line	57.79	E	2	115.58

LABOUR ITEMS					
SNo	Description	Rate	UoM	Quantity	Amount
	main :16-95 sqmm, Tap 16-95 sqmm				
4	Transporting poles by hired vehicle to a distance upto 5km and carrying upto 4 numbers of poles excluding loading& unloading charges.	3142.26	Trip	0.25	785.57
5	Erection of Anchor clamp / dead end clamp LT ABC of any size	164.67	E	18	2964.06
6	Installation of Pre-insulated straight through joints for 25sqmm cable	96.31	E	3	288.93
7	Erection of suspension clamp for LT ABC of any size	164.67	E	24	3952.08
8	Transporting LT ABC by hired vehicle to a distance up to 5 km and carrying up to 2 drum including loading and un loading using crane	4999.05	Trip	1	4999.05
9	Stringing of 1.1 kV Aerial bunched cable of size 1 x 25 + 1 x 25 sqmm with bare/insulated Messenger through existing poles	26.85	m	1000	26850.00
				Labour Total	51705.14
				Centage Charge	12939.62
				Overhead Charge	5170.52
				Total Estimate Amount	150687.88
Estimate Amount in figures : Rs. 150,688					
Estimate Amount in words : Rupees One lakh Fifty thousand Six hundred and Eighty Eight					