KERALA STATE ELECTRICITY REGULATORY COMMISSION
THIRUVANANTHAPURAM

O.P. No. 4 of 2015

In the matter of approval of the estimate for drawal of Aerial Bunched Conductors and approval of the Miscellaneous Charges as per Supply Code, 2014

Petitioner : M/s. K.S.E.B.Ltd. , Tvpm

Respondent :

Present : Sri. T. M. Manoharan, Chairman
Sri. K. Vikraman Nair, Member
Sri. S. Venugopal, Member

Order dated 01- 07- 2015

K.S.E.B.Ltd has filed a petition before the Commission seeking approval of the estimates for drawing Aerial Bunched Conductors (or Cables) along existing line route and approval of miscellaneous charges as per Kerala Electricity Supply Code, 2014. The petition was filed as per the K.S.E.R.C. (Conduct of Business) Regulations, 2003 and petition fee of Rs. 10,000/- has been remitted vide Rt. No. 802 dt. 21.10.2014. and admitted as **O.P.No. 4 of 2015.** Notice was published in the web site of the Commission on 27-2-2015 and no comments or feedbacks were received till 23-03-2015. Public hearing was conducted at the office of the Commission at Thiruvananthapuram on 28-04-2015 and in the Conference Hall of Kerala Institute of Entrepreneurship Development (KIED) at Kalamassery, Ernakulam on 13-05-2015.

2. It was submitted by K.S.E.B.Ltd that the proposal for approving estimate for drawing of LT and HT Aerial Bunched Cables, Miscellaneous Charges, methodology for calculation of Residual Cost of meter, Security Deposit for meters, and charges for Protected Load etc may be approved by the Commission.

Presentation by K.S.E.B.Ltd

I. Estimate for drawing LT and HT Aerial Bunched Conductors on existing line supports:

3. K.S.E.B.Ltd. has introduced the use of Aerial Bunched Conductors (ABC) in selected locations in the State based on the requirements of the consumers. The Commission has approved the schedule of rates for distribution works in K.S.E.B.Ltd.

based on the uniform rates of materials and labour in O.P. No. 30of 2013. There is no standard estimate in this approved schedule of rates for drawing HT and LT ABC conductors. K.S.E.B.Ltd. has submitted 6 standard estimates in this petition for approval.

a. Estimate for drawing 1km HT ABC (3x150+1x120) sq.mm on 9M poles.
b. Estimate for drawing 1km HT ABC (3x120+1x 95) sq.mm on 9M poles.
c. Estimate for drawing 1km HT ABC (3x 95+1x 70) sq.mm on 9M poles.
d. Estimate for drawing 1km LT ABC (3x 95+1x 70+1x16) sq.mm on 8M poles.
e. Estimate for drawing 1km LT ABC (3x 70+1x 50+1x16) sq.mm on 8M poles.
f. Estimate for drawing 1km LT ABC (3x 50+1x 35+1x16) sq.mm on 8M poles.

The estimates are prepared for drawing A B Cables through existing poles, considering 9 M poles for 11 kV lines and 8 M poles for LT lines. Hence span length is taken as 20-25M between poles. Anchor clamp/ Dead end clamp is used where degree of deviation of line is more than 30^0, it is assumed that on a 1 km line, the ratio of anchor clamp to that of suspension clamp is 1:2. The rate of materials and labour are arrived based on the estimates prepared for drawing HT /LT ABC at Attukal temple, Thiruvananthapuram, Muvattupuzha town area and Chettikulangara temple, Mavelikara.

Remarks of KSSIA (Kerala State Small Industries Association, Ernakulam Unit) represented by Sri. Shaji Sebastian:

4. It was submitted that the proposal for the Aerial Bunched Cables is a welcome step and may be approved. He has suggested that similar estimates for 22 kV and 33 kV AB Cables may be got prepared and approved.

Analysis and Decision of the Commission:

5. After detailed scrutiny of the estimates, the Commission has decided to approve the estimates proposed by K.S.E.B.Ltd. for drawing 11 kV and LT lines using Aerial Bunched Cables. The approved estimates are attached as **Annexure I (a) to I (f).**

Miscellaneous Charges:

6. K.S.E.B.Ltd. submitted that the Supply Code 2014 specifies collection of processing fee for application {Regulation 75(11)}, inspection fee for inspections scheduled on holidays and specific days desired by the consumer {Regulation 77(3)} and imposing penalty on the consumer for keeping the meter inaccessible to the licensee (Regulation 111). Also, as per Regulation 49 (6) and 49 (7) (c) of Supply Code 2014, the licensee may levy such charges as approved by the Commission from individual consumers located inside colonies, high rise buildings or commercial /

industrial / residential complexes developed by promoters / builders, etc. at the time of applying for separate electricity connection, wherein all internal distribution network including installation of energy meter is already carried out by the developer. It is proposed that 'energisation charges' in addition to other charges applicable may be levied from such individual consumers for recovering the expenditure towards energising the supply at individual premises. The proposed fees and charges are in addition to the existing charges approved by the Hon'ble Commission vide Order dated 25-01-2011 in TP No. 80/2010.

II. Processing fee for application

7. The Supply Code specifies collection of processing fee for application for new service connections as per Regulation 75(11), which reads as, *Application fee and processing fee for application shall be paid by the applicant at the rates approved by the Commission in the Schedule of Miscellaneous charges as per schedule 1 of the appendix to the Code: Provided that the application fee and processing fee are not refundable under any circumstances.* The works involved in processing an application is related to the connected load / contract demand requested and accordingly, the processing fee has been worked out for 11 categories, by considering the works involved:

- Verification of the application form along with the documents.
- Entering the details of the application in the computer and in the prescribed registers for maintaining a data base of the application received.
- Inspection at the consumer premises and preparation of estimate for providing connection.
- Sanction of load after due process. The competent authority to sanction the load:
  - Up to 20 KW : Assistant Engineer of the Section.
  - Above 20KW : Assistant Executive Engineer of the concerned Sub Division. (Includes all Industrial and Agriculture connections irrespective of load)
  - HT connections : Deputy Chief Engineer of the concerned Circle.
  - EHT connections : Chief Engineer (Distribution) of the concerned area and the Chief Engineer (Transmission) for confirming the connectivity requirements.
- Demand note to be served to the applicant for availing connection.
- On receipt of payment, the service connection is to be effected and the required entries on the computer and registers are to be made.

- For loads above, 3000 kVA, technical feasibility and load flow studies are to be carried out and hence cost of conducting these studies are also incorporated.
- 10% overhead charges on the rates arrived is also included for determining the processing fee.

Sl. No	Category	Proposed fee Rs.
(i)	Load upto 5 kW	150
(ii)	Load above 5 kW and upto 10 kW	200
(iii)	Load above 10 kW and upto 20 kW	500
(iv)	Load above 20 kW and upto 50 kVA	1000
(v)	Load above 50 kVA and upto 100 kVA	2500
(vi)	Load above 100 kVA upto 1000 kVA	5000
(vii)	Load above 1000 kVA upto 3000 kVA	10,000
(viii)	Load above 3000 kVA upto 12000 kVA	25,000
(ix)	Load above 12000 kVA and upto 20000 kVA	35,000
(x)	Load above 20000 kVA and upto 40000 kVA	50,000
(xi)	Load above 40000 kVA	1,00,000

8. It is submitted by the petitioner that the processing fee may be made applicable for new connections and in the cases of request for reduction / enhancement of load and that the Schedule 1 of Kerala Electricity Supply Code, 2014 contains only processing fee for change of ownership and for shifting of lines. Hence it is prayed that the proposed processing fee may be incorporated in the existing schedule of miscellaneous charges in addition to the existing fees, treating it as non-refundable and non-adjustable.

Remarks of KSSIA

9. It is submitted that the Miscellaneous charges reflect the employee cost. The processing fee as per regulation 75 (11) is already covered under the schedule of miscellaneous charges and the proposed rates are duplicated and hence submitted that it may not be allowed.

Analysis and Decision of the Commission:

10. Processing fee is not mentioned the Schedule 1 of Kerala Electricity Supply Code, 2014. There should be some rationale for dividing them into slabs. The Commission has considered the quantum of work and the personnel involved in processing the application and decided to approve the rates of processing fee to be collected from the prospective consumers and the existing consumers who request for reduction/enhancement of load as follows:

(i)	Load upto 5 kW	: Rs. 100
(ii)	Load above 5 kW and upto 20 kW	: Rs. 300
(iii)	Load above 20 kW and upto 100 kVA	: Rs. 1000
(iv)	Load above 100 kVA and upto 3000 kVA	: Rs. 3000
(v)	Load above 3000 kVA and upto 12000 kVA	: Rs. 10,000
(vi)	Load above 12000 kVA and upto 20000 kVA	: Rs. 20,000
(vii)	Load above 20000 kVA and upto 40000 kVA	: Rs. 40,000
(ix)	Load above 40000 kVA	: Rs. 50,000

Note: Processing fee shall not be applicable for the BPL category connections with connected load of and below 1000 Watts.

III. Inspection Fee for inspections on Holidays / Specified date of consumer

11. Regulation 77 (3) of the Kerala Electricity Supply Code, 2014 stipulates that " *if the applicant wishes, he can get the inspection scheduled on a holiday for the licensee or a day specified by the consumer, on payment of an inspection fee approved by the Commission in the schedule of miscellaneous charges as per schedule 1 to the code."* To enable this provision, the charges payable by the consumers towards inspection fee has been arrived at and the proposed rates are submitted. For conducting inspection on working days specified by the consumer, rates higher than the approved rates for inspection are proposed. Similarly, for conducting inspection on holidays, one day salary of the inspecting officer is proposed.

Sl. No.	Category	Normal inspection fee	Inspection fee on working days as chosen by the consumer	Inspection fee on holidays as chosen by the consumer
1	LT single phase	25	250	2000 (Sub Engineer)
2	LT 3 phase	50	500	2000 (Sub Engineer)
3	HT	1000	2000	2500 (Asst. Engineer)
4	EHT	2000	3000	5000 {AE (Dist.) & AE (Tr.)}

Remarks of KSSIA

12. Inspection of an installation should be the duty of the employees of the licensee, for which they are getting their salary. Collecting fee for their daily work seems to be irrational. If the fees are collected for the normal works, there is no relevance in projecting the employee cost in ARR & ERC. The fee prescribed for inspection on holidays as per Regulation 77 (3) need not be allowed. Collection of inspection fee is reasonable only for the inspection on holidays. The claim of Rs. 2000/- for a Sub Engineer and Rs. 2500/- for an Asst. Engineer on holiday is on the higher side and it may restricted to Rs. 300/- and Rs. 500/- respectively. There are even chances of the officers of K.S.E.B.Ltd. misusing the opportunity for conducting inspection on holidays by threatening the consumers that they do not have time on normal working days for conducting inspection.

Analysis and Decision of the Commission:

13. Normally no inspection fee is levied for the first inspection on the application for new connection. If the applicant chooses a holiday or any other day convenient to him, the licensee shall arrange the inspection on that day on payment of inspection fee. The Commission had already approved the rates for testing/inspection fee vide the Order dated 25-01-2011 in the petition T.P. 80/2010 for inspection on working days. The Commission has decided to allow K.S.E.B.Ltd. to collect from such consumers the above rates for inspection on working days and double the above rates for inspection on holidays, if such inspection is conducted at the written request of the consumer or prospective consumer.

Sl. No.	Category	Inspection fee on working days as chosen by the consumer	Inspection fee on holidays as chosen by the consumer
1	LT S.P.	25	50
2	LT 3 phase	50	100
3	HT	1000	2000
4	EHT	2000	4000

IV. Penal Charges payable by the Consumer for making the meter inaccessible for reading .

14. Regulation 111 of the Supply Code 2014 specifies that "*if the meter is rendered inaccessible on two consecutive meter reading dates of two billing cycles, a notice shall be issued to the consumer to keep the meter accessible for reading and to get the meter*

read by the licensee after payment of penal charge as approved by the commission, on a date which shall be at least seven days after the date of notice and at the time specified in the notice." As per the miscellaneous charges approved by the Hon'ble Commission, Rs 50/- has been specified for taking special meter reading and associated billing for LT connections as per the request of the consumer. It is proposed that the penal charges for LT connections shall be Rs. 250/-. For HT and EHT consumers the inaccessibility for taking meter reading will result in a huge loss to the Board due to non-realisation of the revenue in time. So it is proposed for charging higher penal charges of Rs. 10,000/- in the case of HT and EHT consumers. It is prayed that the following rates proposed as penal charges payable by the consumer for inaccessible meter may be approved.

a.	LT single phase and 3 phase	:	Rs. 250/-
b.	HT and EHT	:	Rs. 10,000/-

Remarks of KSSIA

15. Imposing penalty for inaccessible meter shall not be allowed as it is in contradiction of Regulation 109(5) which reads as, "*The consumer shall provide suitable and adequate space for installation of meter in such a manner that it is always accessible to the licensee or his representatives".* He suggested that fine should not be collected, but certain specific conditions can be imposed for making the meters accessible for reading. If the meter is not installed in an accessible position, the licensee shall issue notice to the consumer to change the meter to an accessible position and if not complied with, it should be proceeded with disconnection notice.

Analysis and Decision of the Commission:

16. Meter is tested and installed by the licensee, even if it is purchased by the consumer. The possibility to be considered is only the deliberate attempt of the consumer to make it inaccessible. Hence as provided in the Regulation 111 of the Supply Code 2014, if the meter is rendered inaccessible on two consecutive meter reading dates of two billing cycles, a notice shall be issued to the consumer to keep the meter accessible for reading and to get the meter read by the licensee on a date which shall be at least seven days after the date of notice and at the time specified in the notice, for which the licensee can realise penal charges as approved below:

LT single phase	:	Rs. 250/-
LT 3 phase	:	Rs. 500/-
HT	:	Rs. 5000/-
EHT	:	Rs. 10000/-

V. Energisation Charges :

17. As per Regulation 49 (6) and 49 (7) (c) of Kerala Electricity Supply Code 2014, the licensee may levy such charges as approved by the Commission, from individual consumers located inside colonies, high rise buildings or commercial / industrial / residential complexes developed by promoters / builders etc. at the time of applying for separate electricity connection, wherein all internal distribution network including installation of energy meter is already carried out by the developer. It is proposed that 'energisation charges' of Rs. 330/- in addition to other charges applicable may be levied from such individual consumers for recovering the expenditure incurred by KSEB Ltd. towards energising the supply at individual premises. In other words, the internal connections of the premises are done by the consumer and K.S.E.B.Ltd has to do the works to modify the external system. Hence a proposal for charges applicable for energisation of supply is submitted for the consideration of the Commission and approval.

Remarks of KSSIA

18. Regulation 49 (6) permits the licensee only the collection of security deposit and other charges which are included in the schedule 1 of the Kerala Electricity Supply Code, 2014 or in the order on T.P.80/2010. Hence there is no provision for the proposed item as "Energisation Charges".

Analysis and Decision of the Commission:

19. As per Regulation 49 (6) and 49 (7) (c), the licensee is authorised to collect security deposit and other charges from individual consumers located inside colonies, high rise buildings or commercial / industrial / residential complexes developed by promoters / builders, etc. at the time of applying for separate electricity connection, wherein all internal distribution network including installation of energy meter is already carried out by the developer. The Commission hereby approves to collect Rs. 300/- as energisation charges in addition to the application fee, processing fee and security deposit from the above consumers.

VI. Residual cost of meters:

20. Regulation 22 stipulates that *in the event of any damage caused to any equipment of the licensee within the premises of the consumer, by reason of any act, neglect or default of the consumer or his employee or any person acting on his behalf, the residual cost thereof as claimed by the licensee based on the guidelines approved by the Commission shall be paid by the consumer: Provided that the licensee shall*

submit a proposal on the methodology for calculation of the residual cost to the Commission for approval. K.S.E.B.Ltd. has sought approval of the methodology submitted in the petition.

> ***Methodology*** *: The residual cost of meters will be calculated on the basis of purchase cost of the meter [Cost Price (CP)]. KSEB will publish the purchase cost of all makes of meters made in all previous years for working out the residual cost at the time of replacement. At the end of every year the depreciation value shall be deducted from the CP and the value thus arrived shall be considered as the Residual Price (RP) in the beginning of the subsequent year. This way the Residual Cost of the meter is calculated as on the date of replacement of the meter.*
>
> *The rate of depreciation for meters as per the CERC Depreciation Schedule is 6% and hence it is taken as the depreciation rate per year for calculating residual cost of meter.*
>
> *Thus RP = CP [1-(D*n/100)]*
>
> *where, RP = Residual Price at the time of replacement*
>
> *CP = Purchase Cost of meter*
>
> *D = Depreciation rate*
>
> *n = number of years elapsed from year of procurement to year of replacement; the maximum value of n being '15'*
>
> *If the fraction of years thus considered falls below 6 months, it is ignored and if it is above 6 months, it is taken as a full year.*

On completion of 15 years from the date of manufacture (which may be marked on the name plate of the meter), the residual value will be only 10% as per the CERC Depreciation Schedule.

Remarks of KSSIA

21. The proposal is reasonable and can be approved by the Commission.

Analysis and Decision of the Commission:

22. As per Regulation 22 of the Kerala Electricity Supply Code, 2014, the licensee can claim the residual cost of the meters based on the guidelines approved by the Commission in the event of any damage caused to any equipment of the licensee within the premises of the consumer by reasons of any act, neglect or default of the consumer or his employee or any person acting on his behalf. The proposal for calculating the residual cost of the meter is approved.

VII. Security Deposit of Meters:

23. The sub- regulation (1) of regulation 67 specifies that the licensee may require any prospective consumer to provide security (a) in respect of electricity supplied and (b) in respect of any electric meter provided for supplying electricity. As per sub - regulation (2) of regulation 67 such demand shall be only at the rates approved by the Commission. Regulation 68 stipulates that the licensee may require a consumer to pay security for the price of the meter, unless he elects to purchase the meter and may charge a rent for the meter. Based on the price of the meter, a proposal for collecting security deposit as per regulation 67(1) (b) and regulation 68(1) is submitted. It is an amount equivalent to the cost of meter. To avoid difficulty to the existing consumers, it is proposed to be collected only from new connections from the date of effecting service connection and in the case of existing consumers from the date of replacement of existing meters.

Security deposit proposed for different types of meters:

Sl. No.	Category	Cost of meter	Cost of Modem	Proposed Security Deposit
1	Single Phase ToD meter	700	--	700
2	Three Phase ToD meter	2100	--	2100
3	CT meters TOD	2500	--	2500
4	Single Phase ToD meter with AMR & modem	700	4000	4700
5	Three Phase ToD meter with AMR & modem	2100	4000	6100
6	CT meters ToD with AMR & modem	2500	4000	6500
7	Single Phase AMI compliant meter with modem	2000	4000	6000
8	Three Phase AMI compliant meter with modem	4000	4000	8000
9	ABT Compliant meter with GPS receiver			92817

Remarks of KSSIA

24. Security deposit is not a requirement. But since the Kerala Electricity Supply Code, 2014 permits the same, vide Regulation 67 & 68, it may be allowed. But the rates proposed are very high. A maximum of 30% of the cost of meter may be allowed, considering the life of a meter as 15 years and its depreciated value after 5 years as 30% of its cost. It is also submitted that if security deposit is allowed, the Commission shall think of dispensing with the collection of meter rent.

Analysis and Decision of the Commission:

25. Installation of meter and replacement is the responsibility of the licensee unless the consumer opts to purchase the meter. Hence the replacement being the responsibility of the licensee, the cost of meter can be collected from the consumer for which interest at the rates applicable for security deposit has to be allowed. For proper accounting, the interest portion of the security deposit shall be deducted from the meter rent charged from the consumer in regular monthly energy bills. Modem is not a part of the standard meter and hence the proposal of K.S.E.B.Ltd. to include the cost of modem cannot be approved. The Commission hereby approves the following rates for collection as Security Deposit for different types of meters.

Sl. No.	Category	Amount of Security Deposit
1	Single Phase ToD meter	700
2	Three Phase ToD meter	2100
3	CT meters TOD	2500
4	Single Phase ToD meter with AMR & modem	700
5	Three Phase ToD meter with AMR & modem	2100
6	CT meters ToD with AMR & modem	2500
7	Single Phase AMI compliant meter with modem	2000
8	Three Phase AMI compliant meter with modem	4000
9	ABT Compliant meter with GPS receiver	92817

VIII. Additional Charge for Protected Load:

26. As per provisions in the Kerala Electricity Supply Code, 2014, consumers are provided with option of 'Protected load' status, wherein scheduled power cut or load shedding will not be imposed on such loads. Regulation 48 deals with the provision of protected load status to such consumers provided with dedicated feeder at 11kV and above, emanating from grid substations. Regulation 48 (v) empowers the licensee to recover additional charge for 'protected load' as specified by the Commission on a monthly basis through regular billing.

- The methodology adopted in calculating the additional charges for protected load is based on the data available on the energy saved by way of load shedding/ power restrictions in the year 2012-13 and 2014-15, (during which load shedding had been imposed on the consumers).

- The energy saved is worked out as 585 MU for a year, of which 30%, i.e. 176 MU, is assumed to have been saved by HT/EHT consumers.
- The average demand recorded by HT/EHT consumers for the previous year was 9,07,699 kVA and the energy saved is worked out as 193.9 units/ kVA.
- The maximum rate at which power purchased was Rs. 13.50/ unit (from BSES) and the lowest rate given on HT and EHT tariff (excluding agriculture) is Rs. 4.70 per unit (rate of EHT Industrial).
- Thus the additional rate incurred for purchase of high cost power is Rs. 8.80 per unit..
- The amount that will incur on supplying the unit arrived above will be 193.9 x 8.80 = Rs. 1706.32 per kVA.
- The amount incurred per month on 1 kVA power at higher rates is Rs.1706.32/12= Rs.142.19. Rounded to Rs. 150 per kVA. It is proposed to realise Rs. 150/ kVA of contract demand monthly through regular bills from the consumers with protected load status.

Remarks of KSSIA

27. A distribution licensee is bound to provide the consumer uninterrupted power supply as per agreement. The licensee is collecting a fixed charge on kVA basis from large consumers and on kW basis from small consumers. This collection of fixed charge is towards the “readiness for providing the supply round the clock”. However considering the Regulation 48 (v), instead of collecting Rs. 150/kVA monthly, the consumers should be charged @ Rs.5% above the normal rate for the energy consumption in kWh during power restriction periods. Moreover since the connection is given on dedicated feeders from the substation, the chances of interruption are very less and hence collection of Rs. 150 per kVA in anticipation of the power restrictions will not be fair and just.

Analysis and Decision of the Commission:

28. Protected load status is relevant in the context of power restrictions/load shedding or both. The additional charges to be paid by the consumer should be commensurate with the advantage derived out of the status. During the power restriction periods, all the consumers are allowed to consume energy above the eligible quota on payment of higher rate for energy. The additional advantage for the protected load status will be the exemption from load shedding, if any, imposed. Hence after detailed analysis of the matter, the Commission orders as follows:

(i) The consumer with dedicated feeder from grid substations shall apply for and obtain protected load status. Protected load status can be applied for at any point in time and the consumer has the discretion to decide the period for which this status can be granted.

(ii) 20% additional demand charges over the monthly recorded maximum demand during the period of load shedding can be levied from the consumer with protected load status.

(iii) If such consumer consumes more energy than their eligible quota during the period of power restrictions and load shedding, he shall pay charges for such excess consumption at the rates approved by the Commission.

Orders of the Commission:

29. The proposals of K.S.E.B.Ltd. have been analysed in detail and decisions have been recorded by the Commission under the sub headings “Analysis and decision of the Commission” in respect of each items. Accordingly, the Commission issues the following orders:

1) K.S.E.B.Ltd. is authorised under Section 46 of the Electricity Act, 2003 to recover from the consumers or the prospective consumers, the expenditure for the construction of 11 kV and LT lines using Ariel Bunched Cables at the rates specified in the estimates as per Annexure I (a), I (b), I (c), I (d), I (e) and I (f), approved as per this order.

2) K.S.E.B.Ltd. is authorised to realise the fee for processing the applications submitted by the consumers and the prospective consumers at the rates approved by the Commission as per Annexure II

3) K.S.E.B.Ltd. is authorised to realise fee for inspection of electric installation in the premises of the consumers or prospective consumers at the rates approved by the Commission as per Annexure III.

4) K.S.E.B.Ltd. is authorised to realise penal charges from the consumers, if the meter in his premises is rendered inaccessible on two meter reading dates of two consecutive billing cycles, at the rates approved by the Commission as per Annexure IV.

5) K.S.E.B.Ltd. is authorised to realise energisation charges at the rates of Rs. 300/- per consumer located in colonies, high rise buildings or commercial / industrial / residential complexes developed by promoters / builders etc.

6) K.S.E.B.Ltd. is authorised to calculate the residual cost of meters as per the methodology approved in paragraph 22, read with paragraph 20 of this order.

7) K.S.E.B.Ltd is authorised to collect security deposits for different types of meters at the rates approved by the Commission in Annexure V.

8) K.S.E.B.Ltd. is authorised to collect from the consumers having the protected load status, additional demand charges at the rate of 20% over the recorded maximum demand subject to the following conditions:

i. The consumer with dedicated feeder from the grid substation shall, at his choice, apply for and obtain protected load status for the period of load shedding / power restrictions, if any, imposed by the licensee with approval of the Commission.

ii. If such consumer consumes more energy than their eligible quota during the period of power restrictions and load shedding, he shall pay charges for such excess consumption at the rates approved by the Commission.

Sd/-	Sd/-	Sd/-
K. Vikraman Nair	**S.Venugopal**	**T.M.Manoharan**
Member	Member	Chairman

Approved for issue

Sd/-

Secretary

KERALA STATE ELECTRICITY BOARD LIMITED

Annexure I (a)

Estimate for drawing 11 kV Aerial Bunched Cable of size 3X150 + 1X120 sq.mm on 9 M supports with an average span of 20-25 M

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1100	11 kV ABC of size 3 x 150 + 1 x 120 sq.mm. (insulated messenger)	820.00	M	902000.00
2	3	Single Core removable & re-use TEE/straight joints for 11 kV ABC (MVT)	4500.00	set	13500.00
3	3	Special channel cross arm 2.4 M set for fixing the TEE with bolt & nuts	1312.00	E	3936.00
4	2	11KV ABC termination kits, individual for 3 phase, of size 150 sq.mm .	4800.00	set	9600.00
5	2	Heat shrinkable tube	250.00	M	500.00
6	26	Anchor clamp / dead end clamp suitable for 11 kV ABC	750.00	E	19500.00
7	30	Suspension clamp suitable for 11 kV ABC	690.00	E	20700.00
8	120	Stainless steel strap	40.00	M	4800.00
9	120	Stainless steel buckles	20.00	E	2400.00
10	44	Spiral earthing set	450.00	E	19800.00
11	44	Earth connector	70.00	E	3080.00
12	4	Pipe earthing using 40 mm dia. GI pipe, 2.5M. long with necessary materials for messenger grounding	3000.00	E	12000.00
13	3	9kV, 5 kA polymeric surge arrestor	1600.00	E	4800.00
14	200	Cable ties U V Plast heavy duty, 250 mm long	9.00	E	1800.00
15	1	Miscellaneous materials such as steel grip tape, kerosine, waste,soap, bolt & nuts etc	1500.00	LS	1500.00
(a)		**Cost of materials (sub-total)**			**1019916.00**
(b)		Storage @ 3% of cost of materials			30597.48
(c)		Contingency @ 3% of cost of materials			30597.48
(d)		Overhead charges @10% of cost of materials			101991.60
		Expenditure on materials (sub -total)			1183102.56
(e)		Cost of transportation			13327.70
(f)		Cost of Labour			129500.00
		Cost of labour and transportation Sub total (e&f)			**142827.70**
(g)		Supervision charges on cost of labour and transportation @10%			14282.77
		Grand Total			**1340213.03**
		Expenditure to be recovered per metre			**1340.21**
				Rounded to Rs	**1340.00**
(Rupees One Thousand Three Hundred and Forty only)					

KERALA STATE ELECTRICITY BOARD LIMITED

Annexure I (b)

Estimate for drawing 11 kV Aerial Bunched Cable of size 3X120 + 1X95 sq.mm on 9 M supports with an average span of 20-25 M

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1100	11 kV ABC of size 3 x 120 + 1 x 95 sq.mm. (insulated messenger)	710.00	M	781000.00
2	3	Single Core removable & re-use TEE/straight joints for 11 kV ABC (MVT)	4500.00	set	13500.00
3	3	Special channel cross arm 2.4 M set for fixing the TEE with bolts & nuts	1312.00	E	3936.00
4	2	11KV ABC termination kits, individual for 3 phase, of size 120 sq.mm. .	4800.00	set	9600.00
5	2	Heat shrinkable tube	250.00	M	500.00
6	26	Anchor clamp / dead end clamp suitable for 11 kV ABC	750.00	E	19500.00
7	30	Suspension clamp suitable for 11 kV ABC	690.00	E	20700.00
8	120	Stainless steel strap	40.00	M	4800.00
9	120	Stainless steel buckles	20.00	E	2400.00
10	44	Spiral earthing set	450.00	E	19800.00
11	44	Earth connector	70.00	E	3080.00
12	4	Pipe earthing using 40 mm dia GI pipe, 2.5 M long with necessary materials for messenger grounding	3000.00	E	12000.00
13	3	9 kV,5 kA polymeric surge arrestor	1600.00	E	4800.00
14	200	Cable ties U V Plast heavy duty around 250 mm long	9.00	E	1800.00
15	1	Miscellaneous materials such as steel grip tape, kerosine, waste,soap, bolt & nuts etc	1500.00	LS	1500.00
(a)		**Cost of materials (sub-total)**			**898916.00**
(b)		Storage @ 3%			26967.48
(c)		Contingency @ 3%			26967.48
(d)		Overhead charges @10%			89891.60
		Expenditure on materials (sub -total)			1042742.56
(e)		Cost of transportation			13327.70
(f)		Cost of Labour			127500.00
		Cost of labour and transportation Sub total (e & f)			**140827.70**
(g)		Supervision charges on cost of labour and transportation @10%			14082.77
		Grand Total			**1197653.03**
		Expenditure to be recovered per metre			**1197.65**
		Rounded to Rs			**1198.00**
	Rupees OneThousand One hundred and Ninety Eight Only				

KERALA STATE ELECTRICITY BOARD LIMITED

Annexure I (c)

Estimate for drawing 11 kV Aerial Bunched Cables of size 3X95 + 1X70 sq. mm on 9M supports with an average span of 20-25 M

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1100	11 kV ABC of size 3 x 95 + 1 x 70 Sq.mm. (insulated messenger)	680.00	m	748000.00
2	3	Single Core removable & re-use TEE/Straight joints for 11 kV ABC (MVT)	4500.00	Set	13500.00
3	3	Special Channel cross arm 2.4m set for fixing the TEE with Bolt & Nuts	1312.00	E	3936.00
4	2	11 kV ABC Termination Kits individual for 3 phase of size 150sqmm .	4800.00	Set	9600.00
5	2	Heat Shrinkable tube	250.00	Mtr	500.00
6	26	Anchor clamp / dead end clamp suitable for 11 kV ABC	750.00	E	19500.00
7	30	Suspension clamp suitable for 11 kV ABC	690.00	E	20700.00
8	120	Stainless steel strap	40.00	Mtr	4800.00
9	120	Stainless steel Buckles	20.00	E	2400.00
10	44	Spiral earthing set	450.00	E	19800.00
11	44	Earth Connector	70.00	E	3080.00
12	4	Pipe earthing using 40 mm dia GI pipe, 2.5 M long with necessary materials for messenger grounding	3000.00	E	12000.00
13	3	9 kV,5 kA polymeric surge arrestor	1600.00	E	4800.00
14	200	Cable ties U V Plast heavy duty around 250 mm long	9.00	E	1800.00
15	1	Miscellaneous materials such as steel grip tape, kerosine, waste,soap, bolt & nuts etc	1500.00	LS	1500.00
(a)		**Cost of materials (sub-total)**			**865916.00**
(b)		Storage @ 3%			25977.48
(c)		Contingency @ 3%			25977.48
(d)		Overhead charges @10%			86591.60
		Expenditure on materials (sub -total)			1004462.56
(e)		Cost of transportation			13327.70
(f)		Cost of Labour			124500.00
		Cost of labour and transportation Sub total (e & f)			**137827.70**
(g)		Supervision charges on cost of labour and transportation @10%			13782.77
		Grand Total			**1156073.03**
		Expenditure to be recovered per metre			**1156.07**
				Rounded to Rs	**1156.00**

Rupees One Thousand One Hundred and Fifty Six Only)

KERALA STATE ELECTRICITY BOARD LIMITED

Annexure I (d)

Estimate for drawing LT Aerial Bunched Cable of size 3X95 + 1X70 +1X16 on 8M supports with an average span of 20-25 mts

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1100	1.1 kV ABC of size 3 x 95 + 1 x 16 (street light) + 1 x 70 sq.mm (insulated messenger)	310.00	m	341000.00
2	26	Anchor clamp / dead end clamp suitable for LT ABC of 70 sq.mm. insulated messenger	420.00	E	10920.00
3	30	Suspension clamp suitable for LT ABC of 70 sq.mm. insulated messenger	400.00	E	12000.00
4	2	Cable tie (each packet contains 100 Nos.)	900.00	Set	1800.00
5	26	Cable end caps	15.00	E	390.00
6	350	PVC insulated wire 3.5 C 16/25 sq.mm for DB connection	125.00	m	43750.00
7	40	Piercing Connector for street light connections	100.00	E	4000.00
8	66	Piercing Connector for DB connection from main ABC to DB	130.00	E	8580.00
9	30	Piercing connector for ABC to ABC Tee connection	380.00	E	11400.00
10	66	Distribution Box 3phase-1 incoming 4 outgoing	1850.00	E	122100.00
11	120	Staiinless Steel strap	40.00	m	4800.00
12	120	Stainless steel Buckles	20.00	E	2400.00
13	9	Spiral earthing set	450.00	E	4050.00
14	2	Pipe earthing using 40mm dia GI pipe, 2.5 M long with necessary materials	3000.00	E	6000.00
15	6	Pre insulated straight through joints suitable for 95 sq mm	350.00	E	2100.00
16	2	Pre insulated straight through joints suitable for 70 sq mm insulated messenger	400.00	E	800.00
17	2	Pre insulated straight through joints suitable for 16 sq mm	350.00	E	700.00
18	80	Satellite connectors for consumer connection	350.00	E	28000.00
19	6	Insulation tape (red / yellow / black)	15.00	E	90.00
(a)		**Cost of materials (sub-total)**			**604880.00**
(b)		Storage @ 3%			18146.40
(c)		Contingency @ 3%			18146.40
(d)		Overhead charges @10%			60488.00
		Expenditure on materials (sub -total)			701660.80
(e)		Cost of transportation			13327.70
(f)		Cost of Labour			151830.00
		Cost of labour and transportation Sub total (e & f)			**165157.70**
(g)		Supervision charges on cost of labour and transportation @10%			16515.77
		Grand Total			**883334.27**
		Expenditure to be recovered per metre			**883.33**
				Rounded to Rs	**883.00**

Rupees Eight Hundred and Eighty Three Only)

KERALA STATE ELECTRICITY BOARD LIMITED

Annexure I (e)

Estimate for drawing LT Aerial Bunched Cable of size 3X70 + 1X50 +1X16 on 8 M supports with an average span of 20-25 mts

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1100	1.1 kV ABC of size 3 x 70 + 1 x 16 (Street Light) + 1 x 50 Sq.mm.(insulated messenger)	280.00	m	308000.00
2	26	Anchor clamp / dead end clamp suitable for LT ABC of 50 sq.mm. insulated messenger	420.00	E	10920.00
3	30	Suspension clamp suitable for LT ABC of 50 sq.mm. insulated messenger	400.00	E	12000.00
4	2	Cable tie (each packet contains 100 Nos.)	900.00	Set	1800.00
5	26	Cable end caps	15.00	E	390.00
6	350	PVC insulated wire 3.5 C 16/25 sq.mm. for DB connection	125.00	m	43750.00
7	40	Piercing Connector for street light connections	100.00	E	4000.00
8	66	Piercing Connector for DB connection from main ABC to DB	130.00	E	8580.00
9	30	Piercing connector for ABC to ABC Tee connection	380.00	E	11400.00
10	66	Distribution Box 3phase-1 incoming 4 outgoing	1850.00	E	122100.00
11	120	Staiinless steel strap	40.00	m	4800.00
12	120	Stainless steel buckles	20.00	E	2400.00
13	9	Spiral earthing set	450.00	E	4050.00
14	2	Pipe earthing using 40 mm dia GI pipe, 2.5M long with necessary materials	3000.00	E	6000.00
15	6	Pre insulated straight through joints suitable for 70 sq mm	350.00	E	2100.00
16	2	Pre insulated straight through joints suitable for 50 sq mm messenger	400.00	E	800.00
17	2	Pre insulated straight through joints suitable for 16 sq mm	350.00	E	700.00
18	80	Satellite connectors for consumer connection	350.00	E	28000.00
19	6	Insulation tape (red / yellow / black)	15.00	E	90.00
(a)		**Cost of materials (sub-total)**			**571880.00**
(b)		Storage @ 3%			17156.40
(c)		Contingency @ 3%			17156.40
(d)		Overhead charges @10%			57188.00
		Expenditure on materials (sub -total)			663380.80
(e)		Cost of transportation			13327.70
(f)		Cost of Labour			148830.00
		Cost of labour and transportation Sub total (e			**162157.70**
(g)		Supervision charges on cost of labour and			16215.77
		Grand Total			**841754.27**
		Expenditure to be recovered per metre			**841.75**
				Rounded to Rs	**842.00**

Rupees Eight Hundred and Forty Two only

KERALA STATE ELECTRICITY BOARD LIMITED

Annexure I (f)

Estimate for drawing LT Aerial Bunched Cable of size 3X50 + 1X35 +1X16 on 8M supports with an average span of 20-25 mts

Sl.No	Qty	Particulars	Rate Rs	Unit	Amount Rs
1	1100	1.1 kV ABC of size 3 x 50 + 1 x 16 (street light) + 1 x 35 sq.mm.(insulated messenger)	245.00	m	269500.00
2	26	Anchor clamp / dead end clamp suitable for LT ABC of 35 sq.mm. insulated messenger	420.00	E	10920.00
3	30	Suspension clamp suitable forLT ABC of 35 sq.mm. insulated messenger	400.00	E	12000.00
4	2	Cable tie (each packet contains 100 Nos.)	900.00	Set	1800.00
5	26	Cable end caps	15.00	E	390.00
6	350	PVC insulated wire 3.5 C 16/25 Sq.mm for DB connection	125.00	m	43750.00
7	40	Piercing Connector for street light connections	100.00	E	4000.00
8	66	Piercing Connector for DB connection from main ABC to DB	130.00	E	8580.00
9	30	Piercing connector for ABC to ABC Tee connection	380.00	E	11400.00
10	66	Distribution Box 3 phase- 1 incoming 4 outgoing	1850.00	E	122100.00
11	120	Staiinless Steel strap	40.00	m	4800.00
12	120	Stainless steel buckles	20.00	E	2400.00
13	9	Spiral earthing set	450.00	E	4050.00
14	2	Pipe earthing using 40mm dia GI pipe, 2.5 M long with necessary materials	3000.00	E	6000.00
15	6	Pre insulated straight through joints suitable for 50 sq mm	350.00	E	2100.00
16	2	Pre insulated straight through joints suitable for 35 sq mm messenger	400.00	E	800.00
17	2	Pre insulated straight through joints suitable for 16 sq mm	350.00	E	700.00
18	80	Satellite connectors for consumer connection	350.00	E	28000.00
19	6	Satellite connectors for consumer connection	15.00	E	90.00
(a)		**Cost of materials (sub-total)**			**533380.00**
(b)		Storage @ 3%			16001.40
(c)		Contingency @ 3%			16001.40
(d)		Overhead charges @10%			53338.00
		Expenditure on materials (sub -total)			**618720.80**
(e)		Cost of transportation			13327.70
(f)		Cost of Labour			146830.00
		Cost of labour and transportation Sub total (e & f)			**160157.70**
		Supervision charges on cost of labour and transportation @10%			16015.77
(g)		**Grand Total**			**794894.27**
		Expenditure to be recovered per metre			**794.89**
				Rounded to Rs	**795.00**

Rupees Seven Hundred and Ninety Five only

Annexure -II

Processing fee for application

(i)	Load upto 5 kW	: Rs. 100
(ii)	Load above 5 kW and upto 20 kW	: Rs. 300
(iii)	Load above 20 kW and upto 100 kVA	: Rs. 1000
(iv)	Load above 100 kVA and upto 3000 kVA	: Rs. 3000
(v)	Load above 3000 kVA and upto 12000 kVA	: Rs. 10,000
(vi)	Load above 12000 kVA and upto 20000 kVA	: Rs. 20,000
(vii)	Load above 20000 kVA and upto 40000 kVA	: Rs. 40,000
(ix)	Load above 40000 kVA	: Rs. 50,000

Annexure – III

Inspection Fee for inspections on Holidays / Specified date of consumer

Sl. No.	Category	Inspection fee on working days as chosen by the consumer	Inspection fee on holidays as chosen by the consumer
1	LT S.P.	25	50
2	LT 3 phase	50	100
3	HT	1000	2000
4	EHT	2000	4000

Annexure IV

Penal Charges payable by the Consumer for making the meter inaccessible for reading .

Sl. No.	Consumer Category	**Penal Charges**
1	LT single phase	Rs. 250/-
2	LT 3 phase	Rs. 500/-
3	HT	Rs. 5000/-
4	EHT	Rs. 10000/-

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Annexure V

Security Deposit of Meters:

Sl. No.	Category	Amount of Security Deposit
1	Single Phase ToD meter	700
2	Three Phase ToD meter	2100
3	CT meters TOD	2500
4	Single Phase ToD meter with AMR & modem	700
5	Three Phase ToD meter with AMR & modem	2100
6	CT meters ToD with AMR & modem	2500
7	Single Phase AMI compliant meter with modem	2000
8	Three Phase AMI compliant meter with modem	4000
9	ABT Compliant meter with GPS receiver	92817

Sd/-
Secretary