Government of Kerala

e Tender

Project for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad

Tender Document

An IS 15700 : 2018 Certified Department

Department of Electrical Inspectorate

Signed by
Vinod G
Date: 03-11-2025 14:17:03

Chief Electrical Inspector

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An IS 15700 : 2018 Certified Department

No: G1-3086/2025/CEI Date: 03 /10 /2025

The Chief Electrical Inspector
Office of the Chief Electrical Inspector
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Phone No. 0471 2331159

Project for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad
e Tender No. 01/2025-2026/CEI

TENDER NOTICE

Competitive e-Tenders are invited from A Class or B Class Electrical contractors/ firms with valid license issued by Kerala State Electricity Licensing Board with minimum 6 wireman for the electrification work prescribed below *on or before 1.00 pm on 27.11.2025. The tender will be opened on 29.11.2025 at 2.00 pm.* Bidders shall remit the tender fee and EMD using the online payment options of e-Procurement website (www.etenders.Kerala.gov.in) for detailed instructions on making online payment using internet banking facility of SBI or by using NEFT facility.

Name of Work	Project for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad
Total number of Consumers	120
PAC	30,00,000/-
Time for Completing the project	75 days
Tender Fee including GST	2500/-
Starting date and time of online submission of eTender	03.11.2025 at 5 pm
Last date and time of online submission of eTender	27.11.2025 at 1 pm
Date of opening of e_Tender	29.11.2025 at 2 pm
E.M.D	50,000/-
Website	www.etenders.kerala.gov.in www.ceikerala.gov.in

Chief Electrical Inspector

Project for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad

e Tender No. 01/2025-2026/CEI

e-Tenders are invited from A Class or B Class Electrical contractors/ firms with valid license issued by Kerala State Electricity Licensing Board with minimum 6 wireman for carrying out all medium voltage Installation work issued by the Kerala State Electricity Licensing Board for carrying out the work of **"Project for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad"** with approved materials conforming to BIS standards and other Statutory Regulations as per the detailed specifications covered in the schedule attached herewith.

The offer should contain an EMD of Rs.50,000/- and Tender fee of Rs.2500/- through online payment.

The tender will be opened on 29.11.2025.

The Probable Amount of the work is 30,00,000/-(Rs. Thirty Lakh only).

Chief Electrical Inspector

Project for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad
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1.Bid Qualification Requirements

The bidders shall become eligible to bid on satisfying the following Bid Qualification Requirements and on production of the required documents along with the tender

a. A Class or B Class Electrical contractors/ firms with valid license issued by Kerala State Electricity Licensing Board with minimum 6 wireman for carrying out all medium voltage Installation work issued by the Kerala State Electricity Licensing Board.
b. At least 3-year experience for executing over PWD/CPWD/Harbor Engineering Electrification works.
c. The bidder should not have been Black Listed (De-barred from quoting further tenders) on the ground of poor performance/ poor supply records from any Indian utility/ test house.
d. Any other taxes like entry tax other than excise duty and sales tax should be specified clearly.
e. Firms who agree to Electrical Inspectorate's payment, Penalty, Guarantee and delivery conditions alone will be considered.
f. The bidder shall not be related to, or have any direct or indirect connection with, the Department or its employees in any manner that could influence the bidding process.

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2. General Requirements

1. **General:**

The scope of work shall be generally as given in the Tender Schedule is to give finished work of approved and standard quality and all duly tested and commissioned. All minor items of details usually not shown or indicated but necessary for the completion of the system, including testing, commissioning and handing over shall deem to have been included in the work and in the rates quoted by the contractor. *All the works shall be carried out under the supervision of Electrical Inspector, Wayanad.*

2. **The work is divided under following main groups:**

- The entire internal electrification work shall be with copper wires in concealed/ in open PVC conduits with necessary accessories, switch boxes, light points, plug points etc.
- The complete earthing system including earthing stations, earth conductors and their connections shall be as per IS.

3. **Liaison and Co-ordination work:**

- Expenses towards such as Application fee to be paid to KSEB Ltd., Liaison work with KSEB Ltd., Meter shifting, secretarial work etc; shall be borne by the bidder.
- The contractor shall carry out all minor civil works connected with the electrical job. The contractor shall repair and make good the damages caused by him, erection of D.B/ switchboards on the wall etc. all are to be carried out by the bidder.

4. **Regulations and standards:**

The installation shall conform in all respects to Indian Standard code of Practice for Electrical Wiring installation IS 732-2019. It shall also be in conformity with the Indian Electricity Act 2003, Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations 2023 and Regulations of the concerned authority. Wherever this specification calls for a higher standard of material and/ or workmanship than those required by any of the above regulations, then this specification shall take precedence over the said regulations and standard. In general, the materials, equipment and workmanship not covered by the above shall conform to the relevant Indian Standards.

5. **Drilling and cutting:**

a. The contractor shall supply and install at his expense all secondary materials and special fittings found necessary to overcome the interference and to supply the modifications on the route of mains and conduits that are found necessary during the work.
b. Cutting of walls or other parts of the building for the complete and proper installation of the electrical equipment’s shall be the responsibility of the electrical contractor. Any damage to finished surfaces shall be made good by repair or replacement at the contractor’s expense. The contractor shall possess and make use of necessary tools.

6. **Material and equipment:**

All material and equipment shall conform to the relevant standards and shall be of the approved make and design. Unless otherwise called for, only the best quality materials and equipment shall be used. The materials and equipment shall conform to relevant Indian Standards. The Contractor shall be responsible for the safe custody of all the materials and shall insure them against theft, damage by fire, earthquake etc. All materials of the same kind of service shall be identical and made by the same manufacturer. The Chief Electrical Inspector shall approve any deviation to this rule.

7. **Manufacturers:**

Where manufacturers have furnished specific instructions relating to the materials proposed to be used in this job, covering points not specifically mentioned in these documents, these instructions are to be followed. Where manufacturer's names and/ or catalogue numbers are given, this is an indication of the quality, standards and performance required.

8. **Inspection and Testing:**

The representative of Authority reserves the right go request inspection and testing.

1. That the equipment installed complies with specification in all particulars and is of the correct rating for the duty and site conditions.
2. That all item operates efficiently and quietly to meet the specified requirements.
3. That all circuits are correctly fused and protected and that protective devices are properly coordinated.
4. That all non-current carrying metal work is properly and safely grounded in accordance with the specifications.

9. **Samples and Catalogues:**

Before ordering the material necessary for these installations, the contractor shall submit to the Electrical Inspector, Wayanad for approval a sample of every kind of material such as cables, conductors, conduits, switches, socket outlets, boxes etc. along with the catalogues. After the selection by the Electrical Inspector, Waynad for final approval, no material shall be procured prior to the approval.

10. **Safety of Materials:**

The contractor shall provide proper and adequate facilities to protect all the materials and equipment including those issued by the owner against damage from any cause whatsoever.

11. Completion Certificate by the Contractor:

On completion of the electrical installation (or extension to an installations) the contractor shall furnish a certificate countersigned by the supervisor, under whose direct supervision the installation was carried out. This certificate shall be in the prescribed format. The contractor shall be responsible for getting the electrical installation inspected and approved by the authorities.On completion of the installation, Insulation Resistance Test, Polarity test, Earth Continuity Test and Earth Electrode Resistance test shall be carried out and the report shall be submitted to KSEBL.

12. Staff:

The contractor shall employ a competent fully licensed, qualified full time wiremen to direct the work at site, to receive instructions from Electrical Inspector, Wayanad and to correlate the progress of work in conjunction with all relevant requirements of the supply authority.

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2.1 Medium Voltage Distribution System

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1. Wiring for lighting and power:

This specification covers, system and method of wiring, definition of point wiring and supply, installation, connection, testing and commissioning of point wiring for light points, convenience socket outlet points, etc. Wiring shall be with copper conductor PVC insulated wires drawing rigid PVC conduits on walls, ceiling etc. Wiring shall be from energy meter point to distribution boards, from DB to switch boards and from switchboard to outlet points. The method of wiring for this particular work shall be as mentioned under tender schedule.

2. System of wiring:

Medium voltage distribution system shall be applicable for wiring single phase, 2 wire, 230V, 50Hz, AC supply.

3. Applicable standards:

Applicable Standards:

1. IS:732 Code of Practice for Electrical wiring installation (System voltage not exceeding 650V)
2. IS:1646 Code of Practice for fire safety of buildings (General) Electrical Installation.
3. IS:694 PVC insulated cables.
4. IS:1293 3/5 Pin plugs and sockets
5. IS:8130 Conductors for insulated electric cables and flexible cord
6. Regulation The Electricity Act 2003 and Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulation, 2023.
7. IS:5133 Boxes for enclosure of electrical accessories Part 1: Steel & CI boxes
8. IS:371 Ceiling roses (Second revision)
9. IS:4615 Switch socket outlets (non-interlocking type)
10. IS: 3854 Switches for domestic and similar purposes.

4. General Requirements:

Before the conduits are installed, the exact routes shall be marked at the site.

Definition of point wiring:

A point shall consist of the branch wiring from the switchboard together with a switch and point control boxes as required, as far as and including the wiring accessories such as socket outlet point or suitable termination. A point shall include, in addition, the earth continuity conductor/ wire from the switchboard to the earth pin/ stud of the outlet/ switch box.

5. Scope of work:

The medium voltage distribution system wiring shall be carried out in the under mentioned manner.

a. Supply, installation, fixing of conduits and necessary accessories, switch boxes, outlet boxes and pull/junction boxes.
b. Supplying and drawing of wires of required size including earth continuity

wire.

c. Supply, installation and connection of switches, sockets, Hylam sheet, as specified etc.

d. The point shall be complete with the branch wiring from the switchboards to the outlet point, conduits with accessories, control switch, socket outlet boxes, ceiling roses, batten/angle holder etc.

6. Cables

* The conductors shall be plain annealed circular copper conductors. The minimum number and diameter of wires for circular stranded conductor shall be as per relevant IS specifications. The insulation shall be PVC compound complying with the requirements of IS specifications and the thickness of PVC insulation shall be as set out in the relevant standards.

* All wires shall be colour coded as follows.

Single Phase : Red, Yellow and Blue
Neutral : Black
Earth : Green and Yellow (insulated)

* The wires shall be supplied in sealed coils of 90/180/270 meters' length and bear the manufactures name, trade mark ISI mark, Voltage Grade etc.

* Wires, carrying current, shall be so bunched in the conduit that the outgoing and return wires are drawn into the same conduit.

* The number of insulated wires/ cables that may be drawn into the conduits shall be as per the following table. In any case conduits having less than 20mm dia. Shall not be used.

* Maximum Permissible no. of 1 core cables that may be drawn through different conduits.

Cable size (sq. mm)	Size of Conduits in mm 20
1.5 (stranding) (22/.3)	7

7. Drawing of conductors:

* No wires shall be drawn into any conduit, until all work of any nature that may cause injury to wire is completed. Care shall be taken in pulling the wires so that no damage occurs to the insulation of the wire. Before the wires are drawn into the conduits the conduits shall be thoroughly cleaned of moisture dust and dirt or any other obstruction by forcing compressed air through the conduits. The drawing and joining of copper conductor or wires shall be executed with due regard to the following precautions.

* While drawing insulated wires into the conduits, care shall be taken to avoid scratches and kinks, which may cause breakage of conductors. There shall be no sharp bends in the conduit system.

* Insulation shall be shaved off for a length of 15mm at the end of wire like sharpening of a pencil and it shall not be removed by cutting it square or ring.

* Strands of wires shall not be cut for connecting to the terminals. The terminals shall have adequate cross section to take all the strands.

* At all bolted terminals, brass flat washer of large area and approved steel spring washers shall be used. Brass Nuts & Bolts shall be used for all connections.

***** For all internal wiring PVC insulated wires of 1100 volts' grade shall be used. The sub-circuit wiring for point shall be carried out in looping system and no joint shall be allowed in the length of the conductors.

8. **General wiring installation shall be as under:**

* Sub-main wiring: Wiring from energy meter point to the distribution boards.
* Circuit wiring: Wiring from DB's to point control boxes for lighting fan 6A sockets call bells etc. and from DB to the power sockets in the case of power wiring.
* The sub-main wiring shall be single phase, two-wire system. Each sub-main wiring circuit shall also have its own earth continuity wire. The number and size of earth continuity wire shall be as per schedule annexed.
* The circuit wiring shall generally be in single-phase system. However, a maximum of 3 to 4 single-phase circuits belonging to the same pole/ phase could be installed in the same conduit or receway. Each circuit wiring shall be provided with suitable earth continuity conductor as per standard specifications.

9. **Joints in wiring:**

The wiring shall be by looping system, and hence all joints shall be made at main switches, distribution boards, socket outlets, lighting outlets and switch boxes only. No joints shall be made inside conduits and junction boxes. Conductors shall be continuous from outlet. For unavoidable joints due to any reason prior permission shall be obtained before making such connection. Joints by twisting conductors are prohibited.

10. **Switches, sockets and accessories:**

* Switches (Ordinary) – Switches shall confirm to IS 3854, IS 1293, IS 6538 and IS 4615. Switches shall be single pole, single or two-way.

* Sockets (Ordinary): The sockets shall conform to IS 1293. Each socket shall be provided with control switch of appropriate rating. Sockets shall be of three-pin type, the third pin being connected to earth continuity conductor. All 6A sockets, connector boxes etc, shall be as specified and with the finishing and make same as lighting switches. These shall be erected on the boxes.

* Lamp holders/ Ceiling roses etc: Accessories for light outlets such as lamp holders, ceiling roses, etc shall be white in colour and in conformity with requirements of relevant IS specification. Ceiling roses shall be 3-plate type wherever specified. Angle and batten holder shall be erected on the junction boxes erected on wall/ceiling.

* Installation of switch, socket and accessories: Connection to be made only after testing the wires for continuity/cross phase etc. with the help of a megger.

* The switch controlling the light point shall be connected on to the phase wire of

the circuit and neutral shall be continuous, having no fuse or switch installed in the line except at the D.B the third pin of the socket shall be connected to the earth continuity conductor of the circuit.

* Outlets shall be terminated into ceiling rose for ceiling mounted points. For other wall light points, the outlets shall be connected into an angle holder. For wall plug sockets the conductors may be terminated directly into the switches and sockets.

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11. Earthing:

All earthing systems shall be in accordance with IS 3043, Code of practice for Earthing. The type and size of earthing wire shall be as specified.

12. Testing and commissioning of installation:

Before, completed installation is put into service, the testing of the installation shall be done as per IS 732.

13. Insulation Resistance:

The insulation resistance shall be measured by applying 500Volt. Megger with all fuses in places, circuit breaker and all switches closed. *The insulation resistance of an installation shall be required to have a value greater than one-mega ohms.*

The insulation resistance shall be measured between. Earth to phase, Earth to Neutral

and Phase to Neutral.

14. Earth Continuity Test:

Earth continuity conductors shall be tested for electrical continuity and the electrical resistance of the same along with the earthing lead but excluding any added resistance or earth leakage circuit-breaker, measured from the connection, with the earth electrode to any point in the earth continuity conductor in the completed installation and shall not exceed 5 ohms.

15. Polarity of single pole switches:

A test shall be made to verify that every non-linked, single pole switch is connected to one of the phase of the supply system.

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e Tender No. 01/2025-2026/CEI

2.2 MCB DB, MCB and RCCB

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1. Miniature Circuit Breaker Distribution boards:

* Miniature circuit breaker distribution boards shall conform to IS standard and shall be suitable for operation on single phase 2 wire 230V, 50Hz, AC supply.

* The MCB distribution board shall be in sheet steel enclosures with removable type cover with additional door for protecting accidental operation.

* Where distribution boards are specified to be completed with an isolator as incomer, the isolator shall be double pole for single phase and neutral distribution board.

* Where distribution boards are specified to be complete with MCB+ELCB as incomer, the MCB+ ELCB shall be double pole for single phase and neutral distribution boards.

* Distribution boards shall be provided with circuit identification by means of directory on the front cover.

* The Contractor, shall also provide and fix by means of brass screws tapped into the D.B. cover, labels with black letter on a white background for all distribution boards, MCB+ELCB, Isolator etc. The engraving on the labels and the inscription on the circuit lists shall be approved by the authority before the work is carried out.

* Wiring shall be terminated properly using crimping type copper plugs/ sockets. Identification ferrules shall be provided on all wires.

* One number earth terminal shall be provided on each Distribution Board.

2. Miniature Circuit Breakers:

* MCBs shall be manufactured in accordance with IS 60898 having a short circuit breaking capacity category 10000 Amps at both 240 volts 50Hz, and complying with the test requirements for both reference calibration temperatures of 20-degree C and 40-degree C. (10kA as per IS/IEC 60898-1-2002(0.5-63A).

* All miniature circuit breakers shall be rated to withstand the fault currents of the circuits they protect without causing any interference in any other protective device associated with the distribution system. At the same time the design of the circuit breakers shall be such

that, it will protect the circuit for which it is intended and not cause or allow other protective devices to operate when fault conditions apply.

* Miniature circuit breakers shall be capable of carrying its full rated current continuously without tripping out.

* All the miniature circuit breakers shall be fitted with a magnetic un delayed tripping mechanism.

3. Residual Current Operated Circuit Breakers(RCCB)

* RCCBS shall be manufactured in accordance with IS 12640 and IS 60898 having a short circuit breaking and earth fault protection up to 10 KA at both 240 Volts 50HZ and 240V, 50 Hz and complying with the test requirements as per IS 2640.

* All RCCB shall be high sensitive and calibrated rating. *This means that a 30mA sensitivity RCCB should trip.*

* The RCCBs shall be truly current operated, which means that it shall be totally independent of the main voltage for tripping. RCCB must operate for nominal voltage well below the maximum safe value of 10 volts. RCCB shall interrupt the circuit within 30 milliseconds at a leakage current of 30 mA.

* RCCB shall be provided with a neutral advance mechanism, RCCB shall be functioning even in the event of failure of neutral and / or any one or two of phase supply conductor. RCCB shall be provided with trip free mechanism ensuring that the device cannot be reclosed/ resent if the fault persists. RCCB shall be functioning even in the case of interchange of load and supply side connections.

* Test button shall be provided to check the correct operation of the unit.

* RCCB shall be designed for a very long life of a minimum of 20,000 operations and shall be capable of withstanding inrush current of 4 to 8 times the rated current. For the proper functioning the RCCB should not require any connection of earthing on the device.

* The device should have high tripping accuracy of less than 5% of rated tripping current. The RCCB shall be provided with clear indication to show whether the tripping is due current leakage or overload/short circuit.

sd/-
Chief Electrical Inspector

Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad
e Tender No. 01/2025-2026/CEI

2.3 Earthing

1. **Scope:**

This specification covers supply of necessary materials, and erection at site, of complete earthing system including earth pits at the locations indicated, earth conductors from earth pit to the respective equipment's, switchgears, pillars etc. and making connections, testing at site, commissioning and handing over.

2. **Applicable Standards:**

The entire work of earthing system, shall confirm to IS 3043, The Electricity Act, 2003 and relevant regulations.

3. **Earth Electrodes:**

The materials of earth electrode and earth conductors shall be ISI marked nickel sealed copper bonded pressed rod 16 mm dia of length 3 meter x 250 microns as per ISI 3043 unless specified otherwise in Bill of Quantities, specifications or drawings. The earth electrodes shall be free from paint, enamel, grease etc. The earth electrode shall be embedded as far as practicable in a moist soil and below permanent moist level.

4. **Earth conductor:**

All earthing conductors shall be high conductivity copper and shall be protected against mechanical injury or corrosion. The connection of earth continuity conductors and earth electrode shall be strong and sound and shall be rigidly fixed to the walls, using suitable clamps made of non-ferrous metals.

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3.0 Terms & Conditions

1. Only approved make of materials accepted as per list appended shall be used for the work. All other materials not mentioned in the list specifically shall

conform to relevant IS standards.

2. M.V. Installation shall conform IS. 732:2019.
3. Earthing shall conform IS 3043:2018.
4. All wires shall be colour coded as below:

   a) Single phase - Red, Yellow, Blue.
   b) Neutral - Black.
   c) Earth - Green and Yellow.

5. The schedule in general contains almost all the work and the material required for the work. In case any additional work/ modification is found necessary during the actual execution of work it shall be carried out only with prior approval.
6. It shall be the responsibility of the contractor to carry out to the satisfaction of the authority all necessary pre-commissioning tests before preparing the completion certificate for submission to the KSEB Ltd.
7. The contractor shall comply with the provisions of Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2023 and Kerala State Licensing Board Rules 2020 in regard to the execution and completion of the work.
8. The work shall be completed in all respects in accordance with the schedule within a period of ***75 days*** from the date of execution of the agreement.
9. The contractor shall furnish a guarantee for a period of **one year** from the date of commissioning of the installation, for all the works carried out as per this tender and shall undertake to replace/repair any equipment or materials supplied by them during this period of guarantee free of cost.
10. **The contractor should sign on all pages of tender documents.**
11. Retention of 10% of the gross amount of each running bill will be deducted. The retention amount will be released on commissioning of work.

12. The successful bidder will have to produce a security deposit equal to 5% of the total quoted value in any of the following.

    a) 50% of Bank guarantee from any scheduled bank in India.
    b) 50% of treasury saving deposit.
    It will be released after completion of **one year guarantee period.**

13. The amount towards Earnest Money Deposit, Performance Security Deposit and retention will not carry any interest.
14. The rates quoted shall be inclusive of GST and the Cost of work shall be as

per PWD rates.

15. **PENALTY:**

a) The time and the date for the rewiring and standardization of houses with installation of Residual Current Circuit Breaker (RCCB) for SC (BPL), ST (BPL) Categories – Wayanad stipulated in the acceptance of tender shall be deemed to be of the essence of the contract, and work must be completed not later than the dates specified. If the contractor is unable to complete the work within the stipulated period for which the contractor is responsible, the contractor is required to request for extension of delivery period. If the Electrical Inspectorate Department is satisfied that a reasonable ground for an extension of time exists, and if such an extension is in the interests of Government, he may allow such extension, provided he is competent to do so. In case the reasons stated by the firm are not acceptable in public interest, the Electrical Inspectorate Department shall without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, is sum equivalent to 0.5% to 1% of the tendered amount of the delayed works for each week of delay until actual completion up to a maximum deduction of 10% of the contract prices of the delayed work. Once the maximum is reached, the purchaser may consider termination of the contract at the risk and cost of the contractor.

b). Tenderers should be prepared to accept orders subject to the penalty clause for forfeiture of security in the event of default in work or failure to supply within the stipulated period.

16. **All disputes, differences arising under out of or in connection with the work order, so concluded shall be subject to the exclusive jurisdiction of District Court, Thiruvananthapuram.**

17. **REJECTION:**

Incomplete, conditional, without technical specifications and tenders without EMD will be rejected summarily. Chief Electrical Inspector, Department of Electrical Inspectorate reserves the right to reject any or all the tenders at his direction without assigning any reason whomsoever.

18. **PAYMENTS**

Payment will be released against bill raised for the rewiring work in all respects and will be released on completion of all formalities with the Electrical Inspectorate department and KSEB Ltd.

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4.0 Approved Makes

1.	Distribution Boards	ABB/Schneider/Legrand/C&S
2.	MCB and ELCB	ABB/Schneider/ Legrand/C&S
3.	Modular Switches, plates & Sockets	Elleys E Square/Havells Crabtree/Legrand Myline
4.	PVC Wires	Polycab/V Guard/RR Kabel/Traco/Havells
5.	PVC Conduits	Balco/Evershine/Spintech/Geo
6.	Angle Batten holder	Legrand/Havells/Anchor

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5.0 Tender schedule

Sl No.	Qty		Specification
1	600	Pts	Supply and wiring points according to IS 732-2019 using invory colour rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III and with suitable size specials conforming to IS 3419-fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box/Surfce Modular PVC Box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Group A
2	120	Pts	-Do- Twin control light point with 2 Nos 6A two way Modular Swicth
3	240	Nos	Supplying and fixing suitable size GI box/Surfce Modular PVC Box modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required
4	720	Nos	Supplying and fixing PVC batten/ angle holder including connection etc. as required.
5	600	M	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in existing

			surface / recessed medium class PVC conduit as required(2x1.5 sq.mm + 1x1.5 sq.mm earth wire
6	600	M	-Do- 3 x 2.5 sq. mm
7	1080	M	Supplying and fixing of 20 mm sizes of medium class PVC conduit along with specials conforming to IS 9 537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cmaccessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit
8	120	No	Earthing with ISI Marked Nickel Sealed copper bonded pressed rod 16 mm dia of length 3 Meter x 250 microns as per IS 3043/2018 including giving connectios as required
9	480	M	Supply and drawing 3.15 mm(10 SWG) bare earthing conductors along with wiring/ cables and giving connection as required
10	240	Nos	Supply and providing 25x6mm brass nut and bolt etc. as required
11	120	No	Supplying and fixing 6 way 240 Volt Double door, single phase and neutral, sheet steel, MCB distribution board, , on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, inter rconnections, powder painted including earthing etc. as required. (But without MCBIRCCB/Isolator,)
12	120	No	Supplying and fixing double pole, , 25Amp , 240 volts, residual current circuit breaker (RCCB) having a sensitivity current 30 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc.
13	240	Nos	Supplying and fixing Single pole 6 amps amps rating, 240 volts, B curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.
14	120	No	Supplying and fixing 240 volts , 25Amps DP MCB fixed on DP sheet steel enclosure on surface/ recess complete with connections, testing and commissioning etc. as required.
15	120	No	Supply & installation of dust and vermin proof, 1 Phase Syntax Meter Board (GS-MB- 3525) and to fix KSEB meters, fuse units, Neutral Link etc as required including fixing on wall, making good the damages colour washing etc. as required.
16	120	No	Supply and fixing 32A Cutout Fuse with 16/20/25A HRC Link connection in existing meter board
17	120	No	Supply and fixing 32A 2Way neutral link with connection in existing meter board
18	240	M	Supplying and fixing of 25 mm medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required. (For Service pipe)
19	120	No	Charges for removing the existing wiring installation switch boards and plastering and painting neatly as required.
20	120	No	Charges for shifting the KSEB Energy meter to the newly installed Meter board including processing fee and GST (on production of actual documents)

Chief Electrical Inspector