



Koduvally Municipality

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Inviting Expression of Interest (EOI) for the Implementation of the Smart Street Lighting Project

Koduvally Municipality intends to implement a comprehensive Smart Street Lighting Project for a period of five (5) years. The project covers the replacement of conventional light with energy efficient street lights, Installation of new energy efficient LED street lights and the maintenance of existing LED street lights at National Highways, State Highways, major roads, and other roads within the municipal limits.

The project aims to install smart meters and establish a Centralized Control and Monitoring System (CCMS) for street lighting. Through this system, street lights connected to street mains will automatically switch ON during night time and OFF during daytime according to a predefined schedule. The system will also automatically detect malfunctioning street lights through smart-meter technology and facilitate their repair at the earliest possible time. In locations where street main connections are unavailable, a mobile application / WhatsApp chat bot and call centre will be established to receive and manage public complaints regarding faulty street lights, enabling prompt maintenance.

The Municipality also intends to gradually expand the centralized monitoring system throughout its jurisdiction by extending the street main network in the future.

Initially, the project will be implemented for five years. If the project proves to be successful and satisfactory, its duration may be extended for another five years.

To implement this Smart Street Lighting Project, Koduvally Municipality invites **Expressions of Interest (EOI)** from reputed and experienced companies/agencies. Eligible registered companies may submit detailed project proposals including:

- Complete technical specifications
- Project implementation plan
- Software and hardware details
- Details of materials to be used
- Maintenance strategy

The Municipal Council, with the assistance of a technical expert committee, will evaluate the technical and financial proposals submitted

by qualified firms. Technical and Financial Bids shall be submitted separately in sealed covers.

PART A – Project Details

PART B – Scope of Work

PART C – Terms and Conditions

PART D – EOI Submission Format

Important Notes

1. Sealed Expressions of Interest (EOIs) shall be submitted offline in a separate sealed envelope to the Office of the Koduvally Municipality on or before 4:00 PM on 31st August, 2026.
2. Any proposal received after the above-mentioned date and time will not be considered under any circumstances.
3. Hard copies of the EOI may be submitted through registered Speed post or any courier service. However, the Municipality shall not be responsible for postal delays, late delivery, or loss of documents during transit.
4. Koduvally Municipal Council reserves the legal authority to modify, postpone, or cancel the project at any time without prior notice due to court orders, Government directions, natural disasters, or other unforeseen circumstances.
5. Successful bidders shall be selected based on:
 - o The lowest monthly EMI (quoted amount), and
 - o The quality of the services proposed.
6. Koduvally Municipal Council reserves the absolute right to cancel this EOI notification or reject any or all proposals submitted by companies at any stage without assigning any reason.

PART A - Project Details

Koduvally Municipality intends to implement a Smart and Energy-Efficient Street Light Maintenance System, modeled on similar successful projects implemented in the Kozhikode Municipal Corporation and Thiruvananthapuram Municipal Corporation.

In association with the Kerala State Electricity Board (KSEB), the Municipality proposes to establish a Smart LED Street Lighting System equipped with a Centralized Control and Monitoring System (CCMS) at National Highways, State Highways, major roads, and other roads within its jurisdiction.

At present, approximately 5,693 LED street lights of various capacities have been installed throughout the Municipality. Since these records are not completely accurate, the selected company shall conduct a comprehensive field survey to determine:

- The exact number of existing street lights,
- Their specifications and condition,
- The locations where new street lights are required.

The selected company shall also:

- Replace all existing non-LED street lights with LED street lights.
- Repair and restore existing LED street lights wherever required.
- Upgrade lighting levels wherever necessary to meet illumination requirements.

According to the Municipality, a Smart Street Lighting Maintenance System refers to a system that includes:

- Supply of high-quality LED street lights suitable for all weather conditions.
- Installation and safe mounting of street lights.
- Wiring and electrical works to protect the system against adverse weather.
- Repair and maintenance of all electrical and electronic components.
- Collection of operational data.

The information contained in this notice may not include every detail required for designing the project. Therefore, interested companies are expected to visit the Municipality, inspect the existing street-lighting infrastructure, conduct field surveys, and collect all additional information necessary for preparing their proposals.

The Municipality may provide reasonable assistance for information collection whenever required; however, it shall not bear any financial liability nor accept responsibility for incorrect or incomplete information collected by the bidder.

Key Features of the Smart Street Lighting Project

The selected contractor shall:

1. Maintain and keep operational all street lights installed within Koduvally Municipality, including those on National Highways, State Highways, major roads, and pocket roads. Existing lights shall be evaluated and replaced with higher-efficiency LED lights wherever necessary.
2. Ensure that replacement LED lights provide illumination equal to or better than the existing average lighting level while maintaining adequate road safety.
3. Install smart meter based street light control under a Centralized Control and Monitoring System (CCMS) for control and operating the street lights.
4. In areas having street main connections, configure an automatic control system using CCMS so that street lights switch ON automatically at night and OFF automatically during daytime. Manual control facilities shall also be provided.
5. Where automatic controllers are absent, the contractor shall install suitable Street Light Controllers and integrate them with the CCMS.
6. In areas without street main connections, LED street lights shall operate automatically using light sensors.
7. Procure, install, test, commission, and complete the installation of new LED street lights as directed by the Municipality.

8. Maintain the project successfully for five years, including replacement of defective LED lighting equipment, whether partially or completely, and perform all required repairs.
9. Develop an intelligent monitoring system capable of detecting defective or non-functional street lights and restoring them to operation within five (5) days. This monitoring system shall function in coordination with the CCMS and automatic street light controllers.

PART B - Scope of Work

The scope of the proposed project shall include, but not be limited to, the following:

1. Field Survey and Data Collection

Conduct a comprehensive field survey and collect all necessary data required for the design and development of a Smart LED Street Lighting Maintenance System for Koduvally Municipality.

2. Statutory Approvals

Obtain all necessary approvals and permissions from Government and private agencies, including the Kerala State Electricity Board (KSEB), the Public Works Department (PWD), and other relevant authorities required for the successful implementation of the project.

3. Selection and Installation of LED Street Lights

Identify locations where street lighting is insufficient or unavailable and install new LED street lights of appropriate wattage to ensure adequate illumination. Lamp capacity shall be determined in accordance with applicable Government Orders and BIS (Bureau of Indian Standards) specifications.

4. Mobile Application and Call Centre

Develop a mobile application/WhatsApp Chat bot and/or call centre system to enable the public to register complaints regarding malfunctioning street lights. The proposal shall include detailed specifications of the required hardware, software, sensors, communication systems, and related technologies.

5. Quality Compliance

Ensure that all newly supplied street lights and controllers comply with BIS standards. Acceptance Test Certificates issued by recognized testing agencies shall be submitted.

6. CCMS Integration

Integrate all newly installed street lights as well as the existing street lighting system with the Centralized Control and Monitoring System (CCMS).

7. Installation and Commissioning

Complete installation and commissioning of the system in coordination with the Municipality and KSEB, including obtaining all statutory and technical approvals required for providing electrical power supply and interconnections.

8. Implementation Period

Within six (6) months from the date of signing the agreement, the contractor shall make all existing street lights fully operational. Thereafter, the contractor shall maintain the entire system for five (5) years, including timely repair of faulty street lights. A dedicated team consisting of qualified engineers, managers, and technical personnel shall be deployed for installation, repair, and maintenance throughout the contract period.

9. CCMS and Fault Rectification

The contractor shall install the Centralized Control and Monitoring System (CCMS) along with Street Light Controllers. Whenever a fault is detected through the CCMS or mobile application, the contractor shall rectify the defect within five (5) days.

10. Communication Charges

All SMS charges, data charges, and other communication expenses associated with the mobile application shall be borne entirely by the contractor.

11. Installation of New Controllers

At transformer locations where automatic controllers are not presently installed, the contractor shall install new controllers compatible with the existing CCMS systems installed by KSEB.

12. Electricity Billing Arrangement

At present, electricity charges for street lights are paid under both metered and non-metered tariffs. After commissioning of the project, the contractor shall ensure that:

- Locations with street mains are billed on a metered basis; and
- Locations without street mains are charged only the applicable fixed tariff by KSEB.

13. Street Main Expansion

In areas where street mains are not available, the contractor shall conduct the necessary surveys in coordination with KSEB and assist the Municipality in extending the street main network to as many locations as possible over the five-year project period, subject to the Municipality's financial capacity.

14. Disposal of Replaced Materials

All replaced lighting systems and related materials shall be taken back by the contractor at their salvage value and disposed of in an environmentally responsible manner at the contractor's own cost.

15. Maintenance and Upgradation

Carry out maintenance and repair of all LED street lights within the Municipality and replace the existing 24 W street lights on National Highways and other major roads with brighter, higher-capacity street lights wherever required.

16. Use of Standard Equipment

Ensure that all new LED lighting systems, including energy meters, fixtures, wiring, and associated accessories, are manufactured by reputed brands complying with BIS/IEC standards.

17. Project Handover

The project shall initially be implemented for five (5) years. At the end of this period, the contractor shall hand over the entire street lighting system to the Municipality in fully operational condition. If the project is found to be successful and satisfactory, the Municipality may extend the contract for an additional five years.

18. Future Expansion

Whenever requested by the Municipality, the contractor shall install additional street lights on newly developed roads at the same or lower rates quoted in the contract.

19. Data Integration and Public Information

The contractor shall ensure that operational data from the CCMS controllers are transmitted to KSEB and Municipal servers. Relevant information shall also be made available to municipal officials and the public through the mobile application/web portal

20. Option Regarding Existing LED Lights

The contractor may choose either to retain or replace the existing LED street lights. This decision shall be taken into account while determining the quoted EMI (monthly payment).

PART C - Terms and Conditions

The following terms and conditions shall govern the implementation of the Smart Street Lighting Project:

1. Experience Requirement

The contractor shall have a minimum of five (5) years' experience in the installation and maintenance of LED/street lighting systems in India and shall have successfully completed implementation and minimum one year maintenance at least one similar project.

2. Financial Capacity

The contractor shall possess adequate financial capability to execute the project successfully.

3. Electrical Contractor's Licence

The contractor shall hold a valid B-Class Electrical Contractor Licence issued by the Kerala State Electricity Licensing Board or any equivalent licensing authority in India.

4. Statutory Registrations

The contractor shall possess valid GST Registration and PAN Registration.

5. Right to Accept or Reject Proposals

The Municipal Council reserves the absolute right to accept or reject any Expression of Interest (EOI) or proposal, wholly or partly, at any stage without assigning any reason.

6. Procurement of LED Lights

All new LED street lights shall be procured should comply with the technical specification.

7. Installation on New Poles

The Municipality shall separately provide funds for the installation of street lights on newly erected poles.

8. Completion of Initial Maintenance

The contractor shall complete the replacement of existing conventional lights and restoration of existing non-working LED street Lights with CCMS system within six (6) months from the date of execution of the agreement. Failure to do so shall attract penalties imposed by the Municipality.

9. Disposal of Replaced Materials

All replaced materials shall be taken back by the contractor at their salvage value and disposed of in an environmentally friendly manner at the contractor's own expense.

10. Coordination with Government Agencies

The contractor shall enter into necessary agreements with KSEB and other relevant agencies and obtain all statutory approvals, including approvals from the Electrical Inspectorate and other Government authorities.

11. Insurance

The contractor shall provide adequate insurance coverage, at its own cost, for all personnel engaged in installation, operation, and maintenance activities throughout the contract period.

12. Liability

The Municipality and its officials shall not be liable for any loss of life, personal injury, injury to animals, damage to equipment, or any other loss arising out of inadequate safety measures or negligence on the part of the contractor. The contractor shall bear full financial responsibility for all such damages.

13. Financial Arrangement

The contractor may propose a suitable financial transaction model for execution of the project. However, the final method of payment and financial arrangement shall be decided by the Municipal Council.

14. Detailed Project Proposal

Eligible registered companies shall submit a comprehensive project proposal containing complete software and hardware specifications, implementation methodology, and other technical details.

15. Blacklist Declaration

The contractor shall not have been blacklisted by any Government Department or Public Sector Undertaking (PSU), nor be involved in any criminal, police, or judicial proceedings. A self-certified declaration confirming the same shall be submitted.

16. Separate Technical and Financial Bids

Technical and Financial Bids shall be submitted simultaneously in separate sealed envelopes.

17. Validity of Proposal

The submitted proposal shall remain valid for a **period of six (6) months from the date of opening of the bid.**

18. Acceptance of Conditions

All participating companies shall be deemed to have read, understood, and accepted every part of this document and shall comply with all the conditions specified herein.

19. Dispute Resolution

Any dispute arising from the implementation of this project shall initially be resolved through mutual discussions between the Municipality and the contractor. If such discussions fail, the dispute shall be settled through arbitration or through the competent courts having jurisdiction within Thamarassery Taluk.

20. Joint Venture / Consortium

The Joint Venture (JV) or Consortium not allowed

21. Transfer of Contract

The contractor shall not terminate, transfer, assign, or subcontract the project to any other company during the five-year contract period. If the contractor's performance is found to be unsatisfactory, Koduvally Municipal Council reserves the right to terminate the contract.

22. Project Handover

Upon completion of the five-year maintenance period, the contractor shall hand over the entire LED Street Lighting System to the Municipality in fully operational condition, together with the required certificate issued by the Electrical Inspectorate.

23. Minimum Technical Specifications

The minimum technical specifications for the proposed LED street lights are provided in Annexure I.

24. Financial Bid (EMI)

The Financial Bid shall clearly specify, both in figures and words, the monthly amount (EMI) payable by the Municipality. The quoted amount shall include:

- o Five years of maintenance charges,
- o Labour cost,
- o GST, and
- o All applicable taxes and duties.

25. Advance EMI Payment

The contractor may claim an advance payment equivalent to two months' EMI after successfully replacing existing conventional lights and restoring existing non-working LED Lights more than 80% of the street lights.

26. Performance Requirement

The contractor shall ensure that at least 95% of all street lights remain operational at all times. If the operational percentage falls below 95%, the Municipality may impose daily penalties as determined by the Municipal Council.

27. Electricity Charges

Electricity tariff charges shall be paid directly by the Municipality to the Kerala State Electricity Board (KSEB) on a monthly basis.

28. Indicative Quantities

The number and details of street lights provided in the EOI are only approximate. The contractor shall conduct an independent field survey to determine the exact quantities and submit the financial proposal accordingly.

29. Qualification Criteria

The detailed Technical and Financial Qualification Criteria are provided in the Annexures to this EOI document.

PART D - EOI Submission Format

The Expression of Interest (EOI) shall be submitted in the following format and shall include all documents listed below:

1. Proposal Format

Companies shall prepare and submit their proposals in accordance with the format prescribed in Annexure I. If additional information is to be provided, it may be attached on separate sheets, duly signed by the authorised representative of the company.

2. Detailed Project Proposal

The proposal shall include:

- o A detailed Project Implementation Plan,
- o Hardware specifications,
- o Software specifications,
- o Maintenance strategy, and
- o Any other relevant technical information necessary for the successful execution of the project.

3. Page Numbering and Authorization

Every page of the submitted proposal shall be properly numbered and signed by the authorized representative of the company.

4. Experience Certificates

The bidder shall submit documentary evidence of previous experience in LED/Street Lighting Maintenance Projects, including:

- o Completion Certificates,
- o Work Orders, and
- o Experience Certificates issued by the concerned authorities.

5. Blacklist Declaration

Companies that have been blacklisted by any Local Self Government Institution (LSGI) in Kerala or by Kerala State Electricity Board Ltd. (KSEB Ltd.) shall not be eligible to submit an Expression of Interest.

6. Supporting Documents

Self-attested copies of the following documents shall be enclosed with the proposal:

- o Labour Licence,
- o B-Class Electrical Contractor Licence,
- o PAN Card,
- o GST Registration Certificate, and
- o Any other statutory registrations required for executing the project.

7. Declaration of Acceptance

A self-certified declaration stating that the bidder has read, understood, and accepted all the terms and conditions contained in this EOI document shall be submitted along with the proposal.

8. Incomplete Proposals

Proposals that are incomplete, unsigned, or not accompanied by the required documents shall be rejected without any further notice.

9. Presentation before the Council

For the purpose of technical and financial evaluation, shortlisted bidders shall present their Project Proposal before the Municipal Council. The presentation shall include, but not be limited to:

- o Company Profile,
- o Technical Proposal,
- o Execution Plan,
- o Implementation Methodology, and
- o Other relevant project details.