



## **Expression of Interest (EOI)**

**for**

**Supply, Installation, Testing, Commissioning and  
Maintenance Street Light System in Nedumangad Municipal  
Area**

Expression of Interest (EOI) for Supply, Installation, Testing, Commissioning, payment of electricity charge and Maintenance of Street Light System in Nedumangad municipality.

## **1. Introduction**

Nedumangad Municipality invites Expression of Interest (EOI) from eligible firms for supply, Installation, Testing, Commissioning, Maintenance and payment of electricity charge of a Street Lighting System across Nedumangad. The project aims to modernize the street lighting infrastructure with advanced technologies, enhance public safety, reduce energy consumption, and provide centralized monitoring through the Integrated Command and Control Centre (ICCC).

## **2. Objectives**

- To enable centralized, real-time monitoring and control via ICCC.
- To integrate, retrofit, and upgrade existing street lighting systems.
- To enhance safety for pedestrians and vehicles through adaptive lighting.
- To reduce operational costs by predictive maintenance and energy saving measures

## **3. Conditions of Eligibility**

### **3.1. Basic Eligibility**

The applicant must be a legally registered Original Equipment Manufacturer (OEM) or system integrator based in India.

### **3.2. Technical Eligibility**

The applicant should have successfully executed at least two projects involving Supply, Installation, Testing, Commissioning, and Maintenance of a Street Light System in a city/urban area (having population of 1 lakh and above) anywhere India.

### **3.3. Financial Eligibility**

The applicant should have an average annual turnover of at least Rs. 10 Crore in the last three financial years ending on 31 March 2026.

## **4. Scope of Work**

The selected applicant (Concessionaire) shall finance, procure, install, operate maintain an Integrated Smart Street Lighting System in Nedumangad Municipality on DBFOT basis . The scope shall include phased replacement of all conventional luminaries with energy-efficient, dimmable LED luminaries and integration with a centralized control and monitoring system, GIS mapping. The Concessionaire shall undertake the following tasks:

### **(a) Survey and Design:**

- Integration, retrofitting and up gradation of existing street lighting infrastructure and new infrastructure with centralized control systems covering the municipal area.

### **(b) Technology Options:**

Option-1: Group control of existing conventional lights via feeder pillars and ICCC integration

Option-2. Individual control with replacement of existing fixtures with smart LED fixtures

**(c) Latest Innovations that can be included:**

- Adaptive lighting using AI/ML based on traffic, weather, and pedestrian movement.
- Smart dimming and motion sensor-based lighting.
- Predictive maintenance with fault-detection sensors.
- Data security with end-to-end encryption.
- GIS mapping and real-time dashboards with mobile/web access.

**(d) Implementation & Maintenance:**

- Supply, installation, testing, and commissioning of lighting systems.
- Maintenance of the lighting system for a period of 10 years.
- Centralized 24x7 monitoring at ICCC.
- On-demand meter readings, reports, and alarms.
- Energy audits and compliance with National Lighting Code (SP 72.2010)

**5. Contracting Structure**

One private concessionaire shall be selected on a DBFOT/DBFOM basis through QCBS evaluation.

- Phase 1: LED retrofitting of all conventional fixtures with high-efficacy dimmable LEDs.
- Concessionaire shall be responsible for financing, installation, operation and maintenance for 10 years.

**6. Payment Mechanism**

The indicative payment mechanism is given below, which will be finalized based on EOIs and incorporated suitably in RFP Document.

- Availability Payments linked to uptime and functional lights (>98%)
- Payment in annuity / monthly basis in the base of RFP.

**7. Expectations from Selected Agency**

- Lifecycle approach ensures assets are maintained, not just installed.
- Arrange factory inspection of equipment.
- Transport, insure, and install equipment at site.
- Provide performance guarantees and reliability tests by Third party agency.
- Ensure labelling and traceability of fixtures.
- Operate and maintain 24x7 complaint redressal system.
- Maintain local storage of minimum 5% spare fixtures.
- Submit regular reports to USCL/UMC.

**8. Submission by Applicants**

Interested applicants shall submit the following details:

- Organization profile and registration details.
- Technical experience and project references.
- Financial details of last three years.
- Product and service offerings.
- Innovative business models and revenue-sharing (if any).
- Proposed technology solutions for Options 1 and 2.
- Implementation and AMC plan.

## **9. Evaluation Methodology**

EOIs will be evaluated based on eligibility criteria, technical capabilities, past experience, innovation in proposed solutions, financial strength, and presentation before the Evaluative Committee of USCL

## **10. Schedule of EOI**

The detailed schedule including pre-bid meeting, submission deadline, and presentation.

dates will be published on [etenders.kerala.gov.in](http://etenders.kerala.gov.in)

## **11. Instructions for Submission**

- a) In the first stage of the tender process, the bidders, fulfilling the prescribed eligibility criteria shall be shortlisted.
- b) Thereafter, technical/presentations will be held with the short-listed bidders, giving equal opportunity to all such bidders to participate in the discussions. During these technical discussions / presentations, the Municipality may also add other stakeholders who could add value to the decision – making on the various technical aspects and evaluation criteria.
- c) As an outcome one or more acceptable technical solutions based public lighting, generic in nature, will be decided upon by laying down detailed technical specifications and techno-financial feasibility to Municipality.
- d) Subsequently, open e-tenders will be called from all the bidders dealing in –line, meeting the eligibility criteria.
- e) The dimming of light will not be permitted at critical places such as intersections, busy traffic points and colony entry/exit gates and lower wattage lights etc., thus restricting dimming to maximum 75% of total number of lights. However, in order to take care of any changes in dimming requirements during contract period, the bidder will have to provide all lights.
- f) It may also be kept in mind that the cost of procurement and installation of lights in

the total project cost is a minor component and major component is operation and maintenance along with monitoring of the streetlights during 10 years period. As such all bidders can leverage their skills and enterprise in optimizing the resources, logistics etc. in order to make their bids competitive.

- g) The Bidder is deemed to have visited the sites and familiarized himself of the conditions and restrictions under which the work will be executed.
- h) The omission of any details shall not relieve the bidder of his prima facie obligation and responsibility under the Contract to carry out and successfully complete the Maintenance works.
- i) The Bidder is advised that it is his sole responsibility to ascertain for himself the extent of work that is required to be done in site and to generally obtain his own information on all matters affecting directly or indirectly the execution of the whole works involved in the contract to the complete satisfaction of the Engineer.
- j) The Bidder shall inspect and examine the site and its surrounding and shall satisfy himself before submitting his tender as to the condition of the poles/brackets and condition of wires (so far as is practicable), the form and nature of the site, the quantities and nature of the work and materials necessary for the completion and maintenance of the works and means of access to the site, the accommodation he may require and in general shall himself obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect his tender.
- k) The bidder shall be deemed to have satisfied himself before tendering as to the corrections and sufficiency of his tender for the work and of the rates and prices quoted in the schedule of works/items/quantities, or in Bill of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for proper completion and comprehensive maintenance of the works. No extra charges consequent on any misunderstanding.

**Table A :- Details of Street Light in Municipality**

Sl.No	Nedumangad Municipality	18W	20W	24 W	35 W	40 W	50 W	70 W	110 W	
1		1325	1005	7239	500	110	403	125	50	
2		Highmast & Minimast					87			

**Municipal Engineer  
Nedumangad Municipality**