

SmartInfra Solutions Pvt. Ltd.
Procurement Division - Infrastructure Automation Projects
Bengaluru, India

Request for Proposal (RFP)

RFP ID: RFP-2025-002

RFP Title: Smart Street Lighting IoT System - Urban Infrastructure Project

Date of Issue: 9th November 2025

Submission Deadline: 28th November 2025

1. Objective

SmartInfra Solutions Pvt. Ltd. invites proposals from OEMs and technology vendors for the supply, integration, and commissioning of Smart Street Lighting IoT Systems for an urban infrastructure modernization project in Bengaluru, India.

2. Scope of Supply

Sr. No.: 1

Product Description: IoT-Based Smart Streetlight Controller

Quantity: 1200 Units

Delivery Location: Bengaluru Urban - Phase II Area

Installation & Commissioning Support: Required

3. Technical Requirements

Input Voltage: 90-300V AC

Control: Remote On/Off, Dimming Control

Connectivity: LoRaWAN / NB-IoT / Wi-Fi

Power Consumption: <2W per controller

Operating Temperature: -20C to +70C

Ingress Protection: IP66

Enclosure Material: UV Resistant Polycarbonate

Certifications: CE, BIS, RoHS

4. Testing and Acceptance Requirements

The following tests shall be performed for product acceptance:

1. Functional Testing
2. Environmental Testing (Temperature, Humidity, Vibration)
3. Electromagnetic Compatibility (EMC) Testing
4. Reliability Testing - MTBF > 50,000 Hours

All reports must be from NABL or equivalent certified labs.

5. Evaluation Criteria

Technical Compliance: 60%

Commercial Competitiveness: 25%

Implementation Capability & Support: 15%

6. Commercial Terms

All prices must be quoted in INR.

Prices should include product cost, testing, packaging, delivery, and installation support.

Payment Terms: 40% on order confirmation, 60% post successful commissioning.

Proposal Validity: 45 days from submission date.

7. Submission Details

Submission Deadline: 28-November-2025, 6:00 PM IST

Submission Email: tenders@smartinfra.com

Subject Line: RFP-2025-002 - Smart Street Lighting IoT Proposal - [Vendor Name]

8. Contact Information

For clarifications:

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