

ಕರ್ನಾಟಕ ವಿದ್ಯುಚ್ಛಕ್ತಿ  
ನಿಯಂತ್ರಣ ಆಯೋಗ



KARNATAKA ELECTRICITY  
REGULATORY COMMISSION

ಸಂಖ್ಯೆ : 16 ಸಿ-1, ಮಿಲ್ಲರ್ಸ್ ಟ್ಯಾಂಕ್ ಬೆಡ್ ಏರಿಯಾ,  
ವಸಂತನಗರ, ಬೆಂಗಳೂರು - 560052.

No. 16 C-1, Millers Tank Bed Area,  
Vasanthanagara, Bengaluru-560052.

No/S/03/01

Date:17.04.2024

Public Notice

Sub: Issue of Karnataka Electricity Regulatory Commission (Smart Modules for Existing Digital/Static Meters) Guidelines, 2024 -Invitation to public for filing Views/Comments/Objections/Suggestions if any-reg.

The Commission has issued a Karnataka Electricity Regulatory Commission (Smart Modules for Existing Digital/Static Meters) Guidelines, 2024 for eliciting Views/Comments/Objections/Suggestions from the Stakeholders/interested persons/public.

The Guidelines are available on KERC Website <https://kerc.karnataka.gov.in>. Written Views/Comments/Objections/Suggestions, if any, may be submitted to the Secretary, KERC on or before 15.05.2024

  
Secretary

KERC, Bengaluru

**KARNATAKA ELECTRICITY REGULATORY COMMISSION**

**No. 16, C-1, Millers Tank Bund Road, Yellappa Garden, Bed Area, Vasanth Nagar,  
Bengaluru, Karnataka 560052**

**DRAFT GUIDELINES**

Dated: 17.04.2024

The Karnataka Electricity Regulatory Commission (KERC), in exercise of the power conferred under Section 181 read with Section 50 and Section 86(k) of the Electricity Act, 2003, CEA Metering Regulations, CEA Communication Regulations and all other powers enabling it in this behalf, hereby issues Karnataka Electricity Regulatory Commission (Smart Modules for Existing Digital/Static Meters) Guidelines, 2024.

**1. Short Title and Commencement:**

(1) These Guidelines may be called Karnataka Electricity Regulatory Commission (Smart Modules for Existing Digital/Static Meters) Guidelines, 2024

(2) These Guidelines shall come into effect from the date of uploading on KERC website and shall be in force till further amendments thereof.

**2. Introduction:**

The Commission notes that whenever phasing out of existing digital/Static meter conforming to IS15884 is not viable due to the residual life and to explore the feasibility of upgrading existing digital meters to function as integrated metering network conforming to IS 16444 by using suitable add-on modules and software. The specification of modules and connected software has to be compatible to integrate meters of different manufactures.

While upgrading the metering system conforming to IS15884 with the smart modules, it has to comply with the IS 16444. These modules typically enable digital/static meters to communicate with systems, collect and transmit data remotely, and support advanced metering functionalities such as real-time monitoring and energy management/audit.

By adhering to this outlined guidelines, Distribution Licensees can effectively implement

smart modules with existing meters, enabling enhanced metering capabilities, improved operational efficiency, compliance with the standards, cost considerations, interoperability, and data security are paramount to the successful integration of smart modules and the modernization of energy distribution infrastructure.

**3. Implementation Arrangements:**

Distribution Licensee shall adhere to the following while implementing the smart modules with the existing meters.

a. Residual Life of the Meter:

Distribution Licensees must conduct a thorough assessment of the residual life of existing meters before integrating smart modules. This assessment ensures that the existing meters have sufficient operational life left to justify the investment in smart module integration. Factors such as meter age, condition, and technological obsolescence should be considered during this evaluation.

b. Upgradation Cost:

A comprehensive cost-benefit analysis should be conducted to evaluate the economic feasibility of integration. This analysis should consider factors such as installation costs, maintenance expenses, and potential revenue gains from the improved metering accuracy and data analytics.

c. Compliance with IS 16444:

Smart modules integrated with existing meters conforming to IS15884 must comply with the standards set forth by IS 16444. This standard ensures the interoperability, reliability, and safety of smart modules in energy distribution systems. Distribution Licensees should verify that the smart modules meet the technical specifications and requirements outlined in IS 16444.

d. Universal Compatibility of Add-On Modules:

Distribution Licensees must ensure that any add-on modules used for integration with the existing meter are universally compatible within their operational area. Compatibility with the existing infrastructure and systems is essential to facilitate seamless integration and minimising disruptions to the distribution network. Compatibility testing and validation should be conducted to ensure interoperability and functionality across different