

GOVERNMENT OF INDIA  
MINISTRY OF POWER

**RAJYA SABHA**  
**UNSTARRED QUESTION NO.150**  
**ANSWERED ON 25.11.2024**

**SMART GRID PROJECTS UNDER NSGM**

**150. SHRI DHAIRYASHIL MOHAN PATIL:**

Will the Minister of **Power** be pleased to state:

- (a) whether Government has reviewed the progress and challenges of smart grid projects under National Smart Grid Mission (NSGM) launched in 2015 in the State of Maharashtra;
- (b) if so, the details of key achievements, including reduction in Aggregate Technical and Commercial (AT&C) losses and integration of Advanced Metering Infrastructure (AMI) with legacy systems;
- (c) whether Government is implementing measures to address data standardisation, RF interoperability, and consumer awareness for smoother adoption of smart grid technologies; and
- (d) if so, the timeline and steps planned for scaling up smart grid infrastructure and capacity building across DISCOMS to meet national energy needs?

**A N S W E R**

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

**(a) & (b) :** Two Smart Grid projects in Maharashtra for Amravati and Congress Nagar (Nagpur) were sanctioned in April/June 2016 for Rs.229.20 Cr. under National Smart Grid Mission (NSGM). However, Maharashtra State Electricity Distribution Company Limited (MSEDCL) surrendered the projects sanctioned in December 2018 citing no competitive bids and higher bid prices. No projects were sanctioned further for Maharashtra under NSGM and the scheme stands closed as on 31.03.2024.

**(c):** It is to mention that smart metering is an important element of smart grid and the data exchange protocol chosen for Smart Meter as per IS 16444 shall be as per IS 15959 (Part 2) including specific requirements for Smart Meters for the application layer, which is primarily Device Language Message Specification (DLMS)/ Companion Specification for Energy Metering (COSEM). Further as per Model Standard Bidding Document (SBD) for Smart Prepaid Metering, Meter Data Management (MDM) System shall interface with other important Information Technology (IT)/Operational Technology (OT) systems (viz. Billing, CIS, IVRS, CRM systems, SCADA/OMS etc.) on standard interfaces. The data exchange models and interfaces shall comply with CIM-XML-IEC 61968-9/IEC 61968-100/Web Services/MultiSpeak v3.0 and MDM solution shall be ESB-SOA enabled.

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Further, the Ministry has also taken steps for interoperability of Advance Metering Infrastructure (AMI).

As regards consumer awareness, Ministry of Power (MoP) has already released Standard Operating Procedure (SoP) for consumer awareness/engagement for facilitating smart metering implementation and it has also been mandated under the existing smart meter contracts.

**(d) :** Under Revamped Distribution Sector Scheme (RDSS), around 20 Cr. smart meters have been sanctioned which includes consumer meter, Distribution Transformer (DT) meter and feeder meters. Contracts for around 11.5 Cr. smart meters have been awarded so far and are under various stages of implementation. Installation of sanctioned smart meters is envisaged to be completed within the scheme period. Till date, capacity building, related to AMI and Supervisory Control and Data Acquisition (SCADA), has been undertaken for around 8,000 Power Distribution Utility employees under RDSS.

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