

Training Programme on

LATEST TRENDS IN METERING, BILLING AND COLLECTION

7th - 10th August, 2018



आर ई सी
REC

असीमित ऊर्जा, अनन्त संभावनाएं
Endless energy. Infinite possibilities.

आरईसी इंस्टीट्यूट ऑफ पावर मैनेजमेंट & ट्रेनिंग
REC INSTITUTE OF POWER MANAGEMENT & TRAINING
(Formerly known as Central Institute for Rural Electrification)

INTRODUCTION

Distribution of Power is the vital and weakest link in the entire chain of power infrastructure and most difficult one to deal with, as it is the last mile connectivity with the consumer and it is faced with high Aggregate Technical and Commercial (ATC) losses, which is the combination of technical as well non-technical losses. Technical losses occur naturally and consists mainly of power dissipation in electricity system components such as, line, transformer and other equipment. But, the non-technical losses are caused by action of external to the power system such as, electricity theft, non-payment by customers, pilferages, errors in accounting and record keeping. Thus, the metering and billing of electricity consumed by users is integral to commercial management of a power utility. The other important task is collection of the billed amount. The performance of both the functions is critical to ensure financial viability and sustainability of the power utility and requires specific management approach to be dealt with IT enabled application with less human interface.

Over the years, various metering technologies have been evolved like remote metering, automatic meter reading, virtual seamless metering, prepaid metering, etc. and with latest one being “SMART METERING” which helps in two way communication and a major tool in regulating power thefts, assessing the interruptions for taking better steps for maintaining reliability and enhancing consumer satisfaction. The metering information stored could also be used for revenue protection, tariff formulation, implementation of time of day tariffs for demand side management, etc. Similarly, several initiatives were taken in billing and collection areas like spot billing, automated payment machines, round the clock collection centers, web based on-line payments, mobile application based collection, etc.

Considering all the above, RECIPMT designed a 4-day programme on “**Latest Trends in Metering, Billing and Collection**” from 7th – 10th August, 2018 for the Field Engineers of Power Distribution Utilities.

PROGRAMME OBJECTIVES

- Familiarize the participants about various features and technologies in Metering and Smart Meters for regulating theft and protection of revenue.
- Make the participants more proficient in revenue management, commercial loss reduction and solutions for 100% collection efficiency with the use of web and mobile based applications for billing and collection.

PROGRAMME CONTENTS

The programme will cover the following broad areas:

- Electricity Act 2003 Provisions and Regulatory Issues related to Metering, Billing & Collection - CEA's metering and installation code
- Electronic Metering vs Electro Mechanical Metering and their advantages
- Energy Accounting & Audit and Load Management
- Exchanges of Power between Power Utilities, Open Access and Metering issues
- Features of AMR, Remote Meters, Prepaid Meters, Pilfer Proof Meters, etc.
- Specification of Meters and Associated equipment
- Latest trends in Smart Meters, Specifications, relevant IS Standards, Protocols, Architecture, etc. – Security Issues in Smart Meters
- Meter Data Management and IT System

- Advanced Metering Infrastructure & IT tools used in Metering
- Latest trends in Billing & Collection Methods using IT applications

PEDAGOGY

The programme will be conducted in an interactive environment providing greater scope for discussions. Eminent Engineers, professionals, consultants and experts from different organizations shall be involved as resource persons on different topics of their specialization. The pedagogy includes lectures, discussions, exercises, case studies, etc.

TARGET GROUPS

Junior/Middle level Engineers, heads of divisions/functions in the areas of Metering, Billing & Collection from Power Distribution Utilities of Public and Private, Regulatory Commissions and Electricity/Power Departments will benefit from the programme.

PROGRAMME DATE, TIMINGS & VENUE

7th to 10th August, 2018 from 9.45 am to 5.15 pm with break for lunch, tea and refreshment. The venue will be RECIPMT Campus, Aramgarh X Road, NPA Post, Hyderabad-500 052.

PROGRAMME FEE

| Category | Course Fee per participant | GST (18%) | Total Course Fee/Participant without Group Discount | Group Discount of 10% for 3 or more Participation from same utility *** |
|-------------------|----------------------------|-----------|---|---|
| Residential* | ₹ 22,000 | ₹ 3,960 | ₹ 25,960 | 10% |
| Non Residential** | ₹ 18,000 | ₹ 3,240 | ₹ 21,240 | 10% |

* Includes Boarding and Accommodation in addition to tuition, courseware & other facilities, Field Visit, etc.

** Excludes Accommodation, Includes only Working Lunch, Class room Tea & Snacks.

*** Only on Participation basis

The Accommodation is provided on Double Occupancy Basis

Note: No Pick-up or Drop facility will be provided and participants have to make their own arrangements to reach RECIPMT Campus.

Course Fee shall be paid in the form of a demand draft/cheque in favor of “**REC Institute of Power Management & Training**” payable at Hyderabad in advance or at least at the time of registration. The course fee may also be paid by NEFT/RTGS transfer to **HDFC Bank Account No: 00210350000930, IFSC Code: HDFC0000021**. GSTIN of RECIPMT: **36AAACR4512R3Z0**.

HOW TO REGISTER

Please send the nominations on or before **3rd August, 2018** along with DD/ Cheque / NEFT transfer to: **The Additional Director, REC Institute of Power Management & Training**, NPA Post, Shivarampally, Hyderabad-500052. Fax: 040-29805896, E-mail: recipmt@gmail.com. Please contact Dr. R. Mohd. Nafi, in his Mobile 09441296670 for further information. Participants are advised to commence their journey, after receiving the confirmation from RECIPMT.

CERTIFICATE OF PARTICIPATION

On the completion of the programme, participants will receive a Certificate of Participation.

ABOUT REC

Since its inception in 1969, Rural Electrification Corporation (REC), a Navaratna PSU, has been playing a significant role in financing and promoting electrification projects across India. In a span of 49 years, REC has emerged as India's leading finance company in power sector, be it generation, transmission, distribution or renewable energy, REC has always created benchmarks in its every performance. Based on the MOU with Ministry of Power, the performance of REC is rated as "Excellent" consistently for the last 24 years.

ABOUT RECIPMT

REC Institute of Power Management & Training (RECIPMT) earlier known as Central Institute for Rural Electrification was established at Hyderabad in 1979 under the aegis of Rural Electrification Corporation Limited to cater to the training and development needs of Engineers and Managers of Power and Energy Sector. RECIPMT is relentlessly engaged in capacity building to strengthen the human resources development initiatives of Power Sector. RECIPMT has been conferred with Education Leadership Award by reputed Business School and ABP News National Educational Award for 3 years in recognition of Leadership, Development, Innovation and Industry interface. The Institute is spread over an area of about 14 acres, with administrative, teaching and hostel blocks. Class rooms and hostel rooms are air-conditioned. An Energy Park has been set up to develop awareness on Renewable Energy Sources System and High Voltage Distribution System.

Upto March 2018, the Institute has organized 1972 training programmes and 43352 Engineers/ Managers from various Power Utilities, like Generation, Transmission & Distribution Companies, Electricity Departments, Rural Electric Cooperatives, Regulatory Commissions, Rural Development Agencies, Banks, CPUs, etc., participated in the programmes. The Institute has organized 87 International Training Programmes under ITEC/SCAAP of Ministry of External Affairs, GOI and trained 1389 executives from 86 countries.



Programme Coordinators:

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Dr. R. Mohd. Nafi



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