

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 Awards** 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.



REC INSTITUTE OF POWER MANAGEMENT & TRAINING
(formerly Central Institute for Rural Electrification)

of

REC LIMITED

(formerly RURAL ELECTRIFICATION CORPORATION LIMITED)

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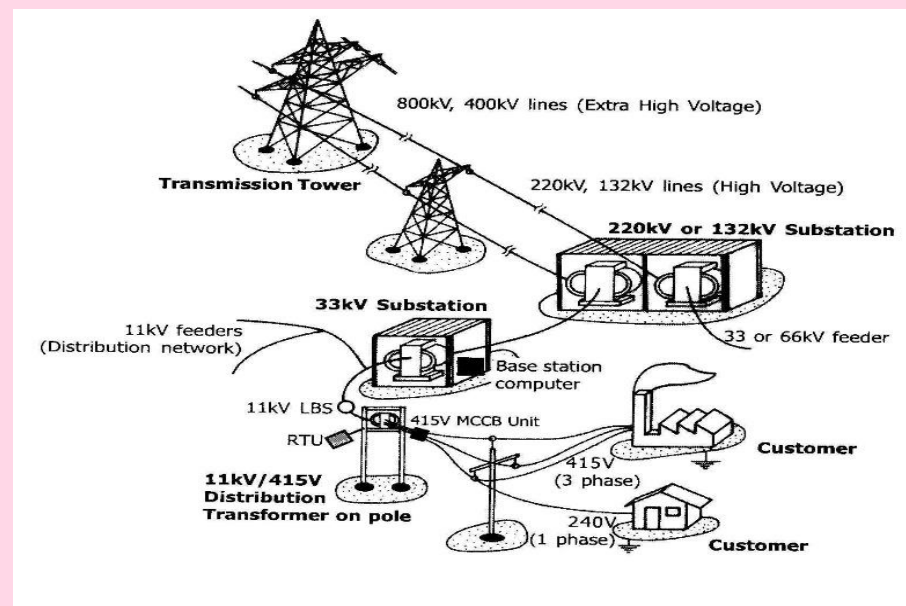
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Training Programme on

“CHALLENGES AND OPPORTUNITIES IN POWER DISTRIBUTION”

25th – 28th March, 2019



Programme Coordinators

Dr. R. Mohd. Nafi/

Shri A Sai Prasad Sarma

INTRODUCTION

Power Distribution poses a major challenges among the power chain, being the closest segment to the customers, virtually at their threshold, with a need to fulfill all their demands and aspirations in the light of standards of performance specified by regulators to garner their satisfaction. Providing quality power by maintaining standard voltage profile, increased reliability and least losses on par with the developed countries and keeping the retail tariff in the affordable range, while meeting the demand in full becomes the main objective for any Distribution utility.

Major challenges in distribution include reducing AT&C loss levels to the target set at 15.5% besides improving the efficiencies of system components through smart grid applications, creating an effective outage management system capable of isolating the faulty sections and restoring supply to healthy sections in a quick time, all in auto, using sectionalizers, auto-reclosures, RMUs, etc. avoiding possible human errors through the usage of smart equipment and substation automation, facilitating smooth integration of renewable energy based power plants in the grid through smart grid operations and making best out of the advanced telecommunications and computing technologies facilitating effective grid operations, enhancing the loading capabilities of lines and transformers utilizing better conductors, etc.

To squarely meet those challenges, up-gradation of the distribution network and systems and replacement of aged and inefficient components in the network is essential. However, an efficient and integrated distribution planning can bring down the costs, retaining the envisaged benefits intact. Power being the most happening sector, such planning shall invariably take into consideration later day developments and needs of the day like *“Digitalization and Smart City concept, Smart Metering and Smart Grid Technologies, SCADA, Automated Grid Management practices, Electrical Vehicles and Charging Stations, Theft control, DSM & Energy Conservation Measures, etc.*

Against this background, RECIPMT is conducting a training programme on **“Challenges and Opportunities in Power Distribution”** from **25th to 28th March, 2019** to give issue based orientation and exposure to state of the art techniques with least cost solutions and their effective implementation to the Executives working in Power Distribution.

OBJECTIVES

- Creating awareness on the challenges faced by distribution utilities in supplying quality power with higher reliability and the grid integration of RE plants
- Providing orientation on issues related to 24x7 Power Supply To All, Loss Reduction including theft control, SCADA and Digitalization with Efficiency Improvement
- Familiarize with the later day technologies of Smart Grid, Smart Meters, Automated Grid Management and Effective “Outage Management System”

PROGRAMME CONTENTS

- Over view of power distribution, highlighting the challenges and issues therein
- Providing 24x7 power supply of quality, reliability and free of harmonics
- DSM and Energy Conservation Measures and Case Studies

- Distribution Loss Reduction and Efficiency Improvement Measures
- Smart grid and their relevance and reliability and efficiency improvement
- Smart metering and Effective Outage Management System
- Condition Monitoring - DGA, Furan & Sweep Frequency Response
- Digitalization relevant to Distribution and SCADA system

PEDAGOGY

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

TARGET GROUP

Executives working in the Power Distribution Utilities, both in Public and Private, Regulatory Commissions and Electricity/Power Departments will benefit from the programme.

PROGRAMME DATE, TIMINGS AND VENUE

25th to 28th March, 2019 from 9.45 am to 5.15 pm with break for lunch and tea. The venue will be RECIPMT Campus, Near Aramgarh X Roads, Shivarampally, NPA Post, Hyderabad-500 052.

PROGRAMME FEE

| Category | Course fee per participant | GST (18%) | Total Fee per participant | Discount for 3 or more participants* |
|-----------------|----------------------------|-----------|---------------------------|--------------------------------------|
| Residential | Rs. 22,000 | Rs. 3,960 | Rs. 25,960 | 10% |
| Non Residential | Rs. 18,000 | Rs. 3,240 | Rs. 21,240 | 10% |

* Only on Participation basis.

Course fee shall be paid in the form of a DD/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 **21st March 2019** along with DD/Cheque/NEFT transfer to: **The Director, REC Institute of Power Management & Training**, NPA Post, Shivarampally, Hyderabad-500052. **Fax: 040-29805896**, E-mail: recipmt@recl.in & 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 concluding day of the programme, participants will receive a Certificate of Participation.