

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)

Aramgarh X Roads, Shivarampally, NPA Post, Hyderabad – 500052

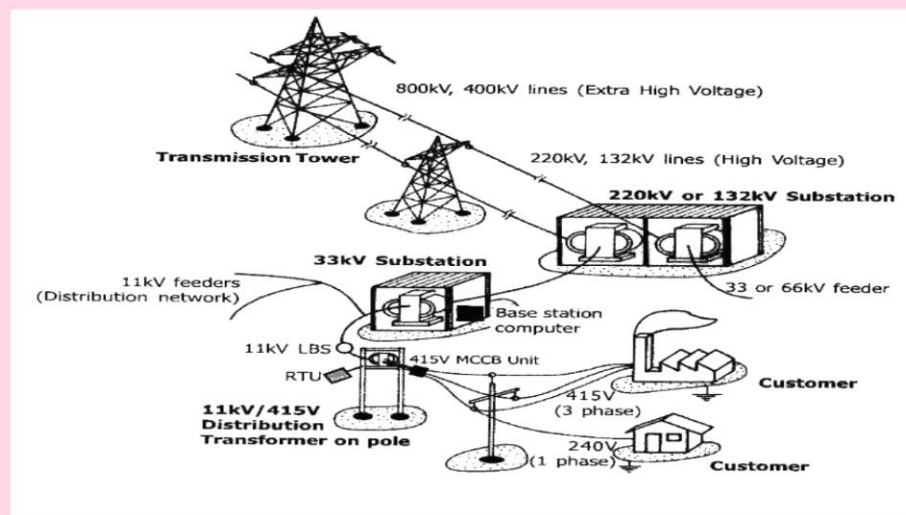
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TRAINING PROGRAMME ON DISTRIBUTION LOSS REDUCTION-ISSUES, CHALLENGES AND REMEDIAL MEASURES 28th – 31st January, 2019



Programme Coordinator
Dr. R. Mohd. Nafi

INTRODUCTION

Power Distribution is the weakest link in the entire chain of power infrastructure and most difficult one to deal with. Major challenges presently being faced by distribution sector is high aggregate technical and commercial (AT&C) losses. MoP, GoI, had already directed all power distribution utilities for reduction in AT&C losses to 15.5%. However, AT&C losses in the country as a whole still remain at 22.1% causing concern and thereby requiring special focus to tackle the problem and being one of the major reasons for poor health of DISCOMs. Government of India is continuously working through reform initiatives like IPDS, NEF, UDAY, SAUHBAGYA, etc. to bring down the losses as it is still more than 30% in many states.

Loss reduction strategy calls for traditional measures for improvement in the technical and system operational parameters like Voltage Regulation, Power Factor, Proper Load Distribution etc., by undertaking system improvement besides adopting later day techniques like High Voltage Distribution System, Reactive Power Management through Capacitor Bank, Increasing Metering Accuracies, etc. Energy audit utilizing GIS and GPS technologies will form the basic framework for estimating the quantum of losses and identifying the areas requiring system improvement for the preparation of detailed project reports.

Apart from the above, power theft, the bane of any power distribution, is one of the major reasons enhancing system losses. Power theft, unless it is reduced, will have impact not only on the revenue sustainability of power utilities but also on the consumer tariff. New technologies and methodologies like HVDS and anti-tampering features and other developments in Metering Systems have been developed to contain pilferage. Adoption of Smart-Grid technologies will facilitate in alerting them at the time of the occurrence of any theft and in quantifying the theft, thereby help in the better containment of the losses.

In view of the importance of the above, RECIPMT is organizing a 4-day Programme on “**Distribution Loss Reduction – Issues, Challenges and Remedial Measures**” from **28th to 31st January, 2019** to provide a forum for the exchange of information and sharing of experiences and expertise for the working executives in the areas.

OBJECTIVES

- To create awareness on effective energy audit and IT tools of GIS and GPS.
- To know on various corrective methods to contain technical and commercial losses.
- To understand the metering technologies and power theft methods and recovery of losses as incurred due to pilferage.

PROGRAMME CONTENTS

The programme will cover the following broad areas:

- Electricity Act 2003 – Provisions of theft/pilferage and penal codes.
- CEA’S metering code on metering, accuracy levels, installation, wiring and sealing.
- Theft in electro-mechanical and electronic meters.
- Advance metering technologies to protect from pilferage/theft.
- UDAY Scheme-Guidelines.

- Revenue assessment – penal tariffs, recovery of losses.
- Smart Meters and Grid – a modernized electricity grid for theft management.
- Procedure for conducting inspections – reporting, registering criminal complaints and effective launching of prosecutions.
- Energy audit and accounting and application of GIS/GPS.
- Customer Relation Management and Social Marketing.
- HVDS and Capacitor banks-advantages and its role in distribution loss reduction.

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 GROUP

Junior/Middle level Engineers working in Public and Private Sector Power Utilities, Regulatory Commissions and Electricity/Power Departments will benefit from the programme.

PROGRAMME DATE TIMINGS AND VENUE

28th to 31st January, 2019 from 9.45 am to 5.15 pm with break for lunch, tea and refreshment. 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 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 **24th January 2019** 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@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 completion of the programme, participants will receive a Certificate of Participation.