

REC Institute of Power Management & Training

Calendar of
**Training
Programmes**
2019-20



असीमित ऊर्जा, अनन्त संभावनाएं
Endless energy. Infinite possibilities.

REC Limited
a Government of India Enterprise

SNAPSHOT OF NATIONAL REGULAR PROGRAMMES

S. No.	Name of the Programme		Dates
1	Enhancing Managerial Effectiveness	3 Days	26-28, June 2019
2	Safety Management	4 Days	16-19, July 2019
3	Distribution Transformers - Operation & Maintenance Practices for Failure Minimization	4 Days	23-26, July 2019
4	OPEN ACCESS, POWER TRADING & EXCHANGE	4 Days	23-26, July 2019
5	Design, Construction & Quality Control Of EHV Substations	5 Days	29 July to 2 Aug 2019
6	Latest Trends In Metering, Billing And Collection	4 Days	6-9, Aug 2019
7	Pilferage Of Electricity - Issues, Challenges And Remedial Remedies	5 Days	5-9, Aug 2019
8	Power Purchase Agreement	4 Days	20-23, Aug 2019
9	Protection In Power Generating Stations	4 Days	27-30, Aug 2019
10	Implementation of Goods and Services Tax (gst)	4 Days	27-30, Aug 2019
11	Concept to Commissioning of Solar Power Plants and Grid Enabling	5 Days	16-20, Sept 2019
12	Ind as (IFRS) Adoption in Power Sector	5 Days	16-20, Sept 2019
13	Smart Grid & Smart Meter	4 Days	17-20, Sept 2019
14	Material Management, Procurement Procedures & E-procurement	5 Days	23-27, Sept 2019
15	Gas Insulated & Indoor Sub-stations	4 Days	15-18, Oct 2019
16	Power Factor Improvement and Reactive Power Management	4 Days	16-19, Oct 2019
17	Earthing Practices and Safety Measures in Electrical Installations	4 Days	22-25, Oct 2019
18	Performance Management of Thermal Power Stations for Improved Efficiency	5 Days	28 Oct - 1 Nov 2019
19	Protection System in EHV Sub-stations & Lines	5 Days	04-08, Nov 2019
20	Tariff Policy and Submission of ARRS - Regulatory Compliance	4 Days	19-22, Nov 2019
21	Operation, Maintenance & Performance Management of Solar PV System	5 Days	26-29, Nov 2019
22	Operation, Maintenance & Protection Aspects of Distribution Sub-stations and Lines	5 Days	02-06, Dec 2019
23	Design, Construction & Testing of Distribution Sub-station and Lines	5 Days	09-13, Dec 2019
24	Distribution Loss Reduction - Issues, Challenges and Remedial Measures	4 Days	17-20, Dec 2019
25	Challenges & Opportunities in Power Distribution	4 Days	06-09, Jan 2020
26	O & M Of EHV Sub-station & Lines and Quality Assurance	5 Days	07-11, Jan 2020
27	Underground Cables - Design, Selection, Laying, Monitoring & Fault Detection	4 Days	21-24, Jan 2020
28	Power Transmission Lines - Design Construction And O&M	4 Days	28-31, Jan 2020
29	Power Transformer- Testing, Commissioning, Protection & Maintenance	4 Days	04-07, Feb 2020
30	Regulatory Framework	4 Days	04-07, Feb 2020
31	Labour Laws - Procedures in Dealing with Court Cases	4 Days	11-14, Feb 2020
32	Geographical Information Systems (GIS)	5 Days	24-28, Feb 2020
33	Cloud Computing, Cyber Security, Data Mining	3 Days	03-05, Mar 2020
34	Project Planning & DPR Preparations	4 Days	02-05, Mar 2020
35	Best Practices in HR Management of Power Utilities	5 Days	16-20, Mar 2020

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About REC

REC came into being in 1969 to articulate a response to the pressing exigencies of the nation. During the time of severe drought, the leaders sought to reduce the dependency of agriculture on monsoons by energizing agricultural pump-sets for optimized irrigation. Thereafter, we have ventured into newer paths and expanded our horizons to emerge today, as a leader in providing financial assistance to the power sector in all segments, be it Generation, Transmission or Distribution.

As a Navratna company under the administrative control of the ministry of Power, we have been rated 'Excellent' in terms of the MoUs signed with the Government for 24 consecutive years. We found our business with market borrowings of various maturities, including bonds and term loans apart from foreign borrowings, on our own. Domestically, we hold the highest credit ratings from CRISIL, ICR, IRRPL and CARE and internationally we are rated at par with the sovereign ratings. Under the discerning leadership of highly qualified and experienced professionals, which has effectively harnessed the individual talents of all our employees, we have maintained consistent profit margins and paid dividends each year since fiscal 1998. We have thus propelled ourselves to a net worth of over ₹34,000 crore.

We take due cognizance of the fact that we owe our stupendous success to our customers, the unflinching commitment of our employees and our countrywide presence through 25 offices which ensures easy accessibility. Having bolstered our share in the country's total power capacity, we are poised to help build a sound infrastructure to provide affordable, accessible and sustainable power.

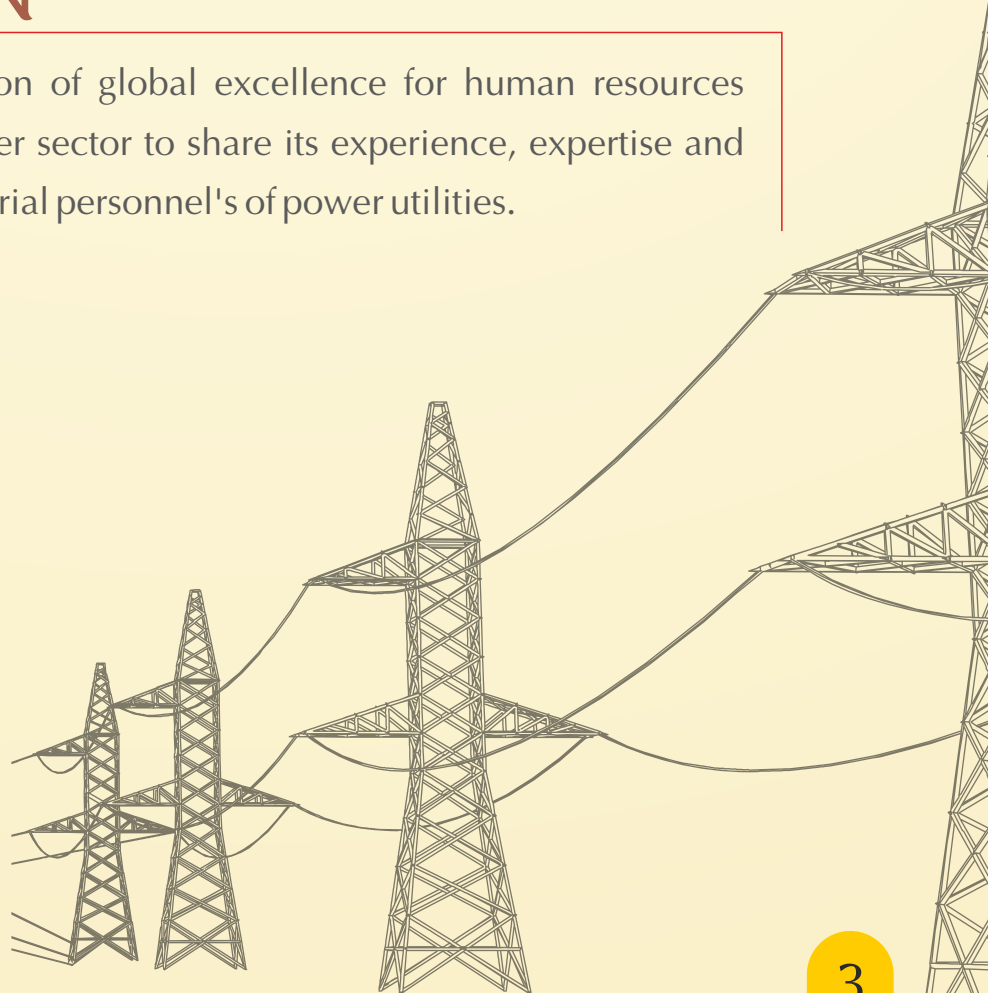


VISION

To reach, educate, inspire, nurture, enlighten and energize power engineers/managers and strive for quality improvement in human resources for achieving higher productivity.

MISSION

To build an institution of global excellence for human resources development of power sector to share its experience, expertise and enlighten the managerial personnel's of power utilities.



Message From Chairman and Managing Director



Post reforms Indian power sector is at the threshold of turning a new corner, of providing accessibility to “Power for All” in the country of 1300 millions, spreading power to all corners of the country. For, power is the harbinger of many prosperities, with manifold usages capable of transforming any nation into a vibrant one, leading to irresistible forward march in all fronts. Envisaging this in the right earnest, Electricity Act, 2003 provided necessary impetus for providing 24x7 supply and several initiatives of Governments to realize the goal. Ultimately, 100% electrification is achieved

India’s progressive efforts in capacity addition in power generation, transmission, strengthening the network to raise power system standards to be on par with those prevailing in the developed countries beside achieving provision of 24x7 supply across the country is continuing mitigating the challenges.

Solutions have to be sophisticated making use of the state of the art technologies as power is the most happening sector with fast changes. New technologies coming up across the globe need to be adopted after necessary analysis. But, matter of foremost importance is providing comprehensive awareness / skills to the managerial cadre and workforce about those technologies to handle them with confidence borne out of competence and aplomb. Recognizing this vital need, the National training Policy in Power sector contemplated there in, unequivocally emphasized the need for skill development through training as a continuous process. Government of India has been providing necessary funding under various schemes facilitating training across the country to carry forward the task unflinchingly. Need for training in Indian power sector is much more essential at this juncture in our endeavor to realize the objective of providing 24x7 qualitatively and reliably at affordable cost.

It is a matter of great satisfaction that REC Institute of Power Management & Training (RECIPMT), has come to be recognized as a pioneering training institute in the power sector over the years, for conceiving innovative and constantly upgraded training modules with an eye on the needs of the times, besides spreading its tentacles to all wings of power sector including Green power area. It has etched a mark for itself in the international arena, as well.

It is heartening to note that in its endeavor to remain at the top in the training field, RECIPMT is bringing out its training calendar for the financial year 2019-20 fully dovetailed to the needs and aspirations of client utilities, and fine tuned to the present day technologies. It is earnestly believed that it will find instant favour with the clientele for its content and planning.

Wishing RECIPMT all the success in its efforts to remain in the top notch.

Ajeet Kumar Agarwal
Chairman & Managing Director, REC Ltd.

“For excellence in its methods of training, RECIPMT has achieved awards thrice at national level.”

Message From Director (Technical)

Power is the only infrastructure essentially sought after and incessantly for decades to come, changing the fortunes of any nation. Indian power sector has acquired a new edge consequent to enforcing reforms, so that “Extending power supply of quality, continuity and reliability all the 24 hrs. a day, meeting the demand in full all the time and at affordable price” has become the objective of the sector.

Government of India has initiated several schemes like DDUGJY, SAUBHAGYA, IPDS etc., for 100% village and household electrification, strengthening the distribution area networks and loss reduction, and UDAY scheme towards relieving Discoms of their debt burden with interest there on and make discoms financially strong in resources to invest for improvements. Generation plans are focused with “Transform, Energize and Clean India” with proper proportion of green energy. Inter and Intra connecting transmission schemes are also planned for early completion at competitive price for evacuation of power across country to meet the demand.

Resolving technical issues and providing solutions to the challenges in power sector requires adoption of disruptive technologies added with management expertise. But, solutions have to be comprehensive covering with special emphasis on skill development of the operating personnel, through subject specific updated training programmes for handling technologies with competence. The employees are to be appraised of the Change management perceptions, as a part of the training, to condition their attitudes to invite changes planned, sincerely

REC institute of Power management and training has been fulfilling the training and skill development needs of the power sector for more than 4 decades with remarkable modules selectivity based on the needs of the times and their periodical up-gradation which have been well received by the utilities. In its constant endeavor to remain in the top among similar organizations, the institute is bringing out its calendar of training programmes for the financial year 2019-20. While congratulating the institute for its inspiring performance in yester years securing consistent patronage, it is hoped that the training modules proposed will fulfill the aspirations and training needs of utilities in the power sector, improving patronage.

Sanjeev Kumar Gupta
Director (Technical), REC Ltd.



“**RECIPMT has been modifying its calendar by incorporating the programs which are in demand to be useful to power sector fraternity**”

From the desk of

Director



Power is an important constitution for the GDP growth rate of any country, and so also for India. The power sector is experiencing an exponential growth in the recent past with the implementation of new initiatives and policies of the Govt. of India and also State Governments. The country has emerged as 3rd largest electric producer in the world.

The National Electricity Plan report published by Ministry of Power has indicated that the power sector attracts huge investments to an extent of 11.5 lakh Cr during 2017-22.

The achievement of 100% rural electrification as well as household electrification is further increasing the power supply demand, which requires focusing on ensuring Quality and Reliable power supply. The adoption of disruptive technologies for achieving 100% customer satisfaction at affordable cost, reduction of AT&C losses, complying to the UDAY scheme are to be addressed by the distribution companies. Further, existing Fragile Distribution network to be strengthened and also load balancing to be taken up with the grid enabling solar and wind power. In order to effectively and efficiently handle above challenges, the awareness and skill development of human resources working in the power sector becomes paramount importance.

RECIPMT is happy to share its calendar of 2019-20 covering some of the important subjects of the training suitable to power utility executives, and hope that utilities will avail the opportunity by deputing large number of executives to the training programs of RECIPMT calendar. The institute is always ready to organize customized/ tailor made training programs to utilities.

Santosh Kumar Sahu

Director,
REC Institute of Power Management and Training (RECIPMT)

“ For excellence in its methods of training, RECIPMT has achieved awards thrice at national level. ”

About the Institution

REC Institute of Power Management and Training (RECIPMT) formerly known as Central Institute for Rural Electrification is a training institute established at Hyderabad in 1979 under the aegis of REC Limited (Rural Electrification Corporation Limited), a Government of India Enterprise. The objective is to design and conduct training programmes on various topics of Electricity Generation, Transmission and Distribution Systems and also on Renewable Energy Systems.

During the last 40 years, RECIPMT has organized programmes and workshops on Technical, Management, Finance & Accounts, HR, Information Technology and Energy Conservations relating to Power Sector.

RECIPMT is the nodal agency for coordination and implementation of the National Training Programmes for C&D Employees across the country, under Deen Dayal Upadhyay Gram Jyothi Yojana (DDUGJY) of Ministry of Power, GoI. Till 31st March 2019, RECIPMT organised training for 2,49,107 C&D category of employees of various power utilities. RECIPMT has also organised 41016 no of training of power distribution franchisees during the 11th plan.

RECIPMT is also organising training programmes for the Executives of International Power Sector Organisations.

So far, trained

1539 executives from **90** countries by organising **95** batches of training to International Power Sector Executives. The duration of trainings varies from **4-12** weeks.

Upto March 2019, the Institute has organized 2228 training programmes and 47937 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.



Calendar of Programme 2019-20

01 National Regular Programmes

02 International Programmes

03 In-house Programmes

04 MoU Programmes

05 Specialized Programmes

06 Behavioural Skill Programmes

07 National Training Programmes For C&D Category of Employees

08 IPDS Programmes For A&B Category of Employees

1 National Regular Programmes

RECIPMT organizes every year Regular Training Programmes for national participants on state of art subjects of interest to power utilities. The regular programmes consist of both technical and non-technical topics. RECIPMT organizes programmes related to Power Generation, Transmission, Distribution, Renewable sources, Finance, Management, HR and other important topics related to power sector. The Programmes are as under:

S.No.	Name of the Programme	No. of Days	Dates
1.	ENHANCING MANAGERIAL EFFECTIVENESS	3 Days	26-28 June 2019
<p>Managerial Effectiveness – A Conceptual Framework - Characteristics of an Effective Manager, Stress Management - Sources & Effects of Stress , Maintaining Work-life Balance, Spirituality and Stress Management, Time Management & Importance of Time Management, Creativity in Management, Emotional Intelligence in Management – Evolution & Components of Emotional Intelligence, Interpersonal Skills, Leadership and Change Management, Multi-cultural Communication Skills.</p>			
2.	SAFETY MANAGEMENT	4 Days	16-19 July 2019
<p>CEA Regulation, 2010 – CEA Safety regulation amendment 2015 – Legal aspects of safety under Factories Act 1948 – Causes & Factors of Accident & Prevention – General Safety practices- Hazard involved in construction& erection activities.</p>			
3.	DISTRIBUTION TRANSFORMERS - OPERATION & MAINTENANCE PRACTICES FOR FAILURE MINIMIZATION	4 Days	23-26, July 2019
<p>Recent Developments in Materials and manufacturing of electrical equipment, Design and Manufacturing of Distribution Transformers, Erection, Testing and Commissioning of Distribution Transformers, Transformer Oil Characteristics, Filtration and Reclamation Techniques, Maintenance of Distribution Transformers, Protection and Failure Analysis of Distribution Transformers.</p>			
4.	OPEN ACCESS, POWER TRADING & EXCHANGE	4 Days	23-26, July 2019
<p>Open Access - Electricity Act, Power Trading in multi-buyer and multi-seller environment; Availability based tariff – concept and importance, Balancing and settlement mechanism; Power trading rules in changed scenario; Role of Regulatory Commissions - Open Access challenges for Power Market.</p>			
5.	DESIGN, CONSTRUCTION & QUALITY CONTROL OF EHV SUBSTATIONS	5 Days	29 Jul–02 Aug 2019
<p>Transmission Planning – Design of EHV Sub-station - Bus-Bar Arrangement - Foundation Laying & Erection of Sub-Station Structures - Salient Features & Erection of Power Transformer and Switchgears including Testing & Commissioning – Earthing of EHV Sub-Station – Protection Systems – Sub-Station Automation</p>			

6.	LATEST TRENDS IN METERING, BILLING AND COLLECTION	4 Days	6-9, Aug 2019
<p>Need for advance metering, HT & LT Metering technologies; CT Meters, Electro mechanical vs. Electronic meters; Automatic meter reading, Pre-paid meters, Remote metering; Virtual Seamless Metering; Software solutions for billing, Spot billing, Measures for prevention of theft of Electricity, Effective collection Systems – On Line, E-Seva, ATM Collection Machines & Franchisees, CRM, etc.</p>			
7.	PILFERAGE OF ELECTRICITY - ISSUES, CHALLENGES AND REMEDIAL REMEDIES	5 Days	5-9, Aug 2019
<p>Methods of Detection of Pilferage and malpractices of Energy, Analysis of commercial and technical losses, Effective measures for arresting pilferage of electricity, Administrative, legal and technical measures for minimization of theft of electricity, Assessment and Penal Provisions - Electricity Act 2003, Vigilance operations & Case studies.</p>			
8.	POWER PURCHASE AGREEMENT	4 Days	20-23, Aug 2019
<p>Undertaking and obligations of the developer and Power Utility; Acceptance test procedure; Sale and purchase of energy; Tariffs, Force majeure, Buy-out clause, Dispute Settlement Mechanism, Arbitration & Reconciliation; Role of Regulatory Commissions; PPA for Renewable, Power Market, Negotiating PPAs-Front Loading & Project Based Security.</p>			
9.	PROTECTION IN POWER GENERATING STATIONS	4 Days	27-30, Aug 2019
<p>Overview of Protection system and its evolution – Transformer Protection – General Protection – Motor Protection – Distribution Feeder protection including IDMT relay coordination exercise – Instrument Transformers (CT/PTs) – case studies.</p>			
10.	IMPLEMENTATION OF GOODS AND SERVICES TAX (GST)	4 Days	27-30, Aug 2019
<p>Overview of GST – Impact on Service Provider, Traders and Manufacturers; Levy of GST, Composition scheme and exemptions; Time and Place of supply of goods and services; Valuation and input tax credit; Impact of GST on special transactions; Maintenance of records and books; Impact of GST on different sectors.</p>			
11.	CONCEPT TO COMMISSIONING OF SOLAR POWER PLANTS AND GRID ENABLING	5 Days	16-20, Sept 2019
<p>Radiation analysis - Solar cells – Trends, types & selection, Solar photovoltaic power generation technologies, Standalone and Grid connected systems, DPR and Tender Document Preparation for Grid tied and Off-Grid system, Rooftop and MW size PV systems - Selection of Invertors and balance of system, Design of Solar PV System, Erection, Commissioning & Testing of Solar PV System - protective devices – tracking systems – reliability issues.</p>			
12.	IND AS (IFRS) ADOPTION IN POWER SECTOR	5 Days	16-20, Sept 2019
<p>Benefits of Ind AS Adoption – Framework based understanding of Ind AS - Conceptual difference between Ind AS and existing accounting standards – Implementation issues in Indian Power Sector – Component accounting – Regulatory assets and liabilities – Financial instrument – First time adoption – a roadmap for successful adoption – Key learning from IFRS implementation in other countries – Project team structure, responsibilities and time life.</p>			
13.	SMART GRID & SMART METER	4 Days	17-20, Sept 2019
<p>Concept of Smart cities and smart grids as per GOI initiatives – Infrastructure upgrade of Sub- transmission and distribution networks – Smart cities energy requirements coming from Solar, renewable energy utilization and Decentralized Distributed generation for smart cities – Smart metering, robust IT connectivity and Digitization – Energy efficient street lighting – Outage management system.</p>			

14.	MATERIAL MANAGEMENT, PROCUREMENT PROCEDURES & e-PROCUREMENT	5 Days	23-27, Sept 2019
Materials Management an Overview – Tool kit: JIT, Lean Inventory models, transportation models, ESI, Vendor managed inventory, CPFR value analysis – Purchasing system – Vendor rating and vendor development – Forecasting, strategic sourcing, Logistics, Inventory Management, Stores Management – Agile Manufacturing/Enterprise – Logistics:3PL, 4PL – Contract Management and Managing Risk – Spare Parts management – e-procurement - GeM			
15.	GAS INSULATED & INDOOR SUB-STATIONS	4 Days	15-18, Oct 2019
Salient features of Indoor Substations; Necessity of Gas Insulated Substation and advantages over conventional Substations; Operation & Maintenance aspects and Earthing arrangements of Indoor and Gas Insulated Substations; Underground Power Cables—Laying, jointing, termination and fault location Techniques; Control Cables—Laying, termination and wiring practices			
16.	POWER FACTOR IMPROVEMENT AND REACTIVE POWER MANAGEMENT	4 Days	16-19, Oct 2019
Types & Effect of Reactive Power - Correction Methodology, Salient features, Erection, O&M and fault analysis of Shunt Capacitor and Series Capacitors - 11 KV and LT Switched Capacitors - Capacitors Bank Formation, Neutral Grounding - Erection, commissioning O&M, Protection of Reactors - Case studies of Capacitor failures, Factory Testing of Capacitors – FACT and Static Var Compensation.			
17.	EARTHING PRACTICES AND SAFETY MEASURES IN ELECTRICAL INSTALLATIONS	4 Days	22-25, Oct 2019
Indian Electricity Rules & Safety Code of C.E.A, Importance of equipment Earthing, Types of Earthing, Design of Earth Mat, Earth resistivity, Soil Resistivity and measurement of Earth and soil Resistance, Methods to Improve Earth Resistance, maintenance free Earthing, and advance methods, Line Clearing Procedures for Safety and Accident Prevention; First Aid Practices for Electrical Shocks, Burns, Snake Bites and Falling from Heights; Artificial Respiration; Fire safety and prevention of fire and safety maintenance.			
18.	PERFORMANCE MANAGEMENT OF THERMAL POWER STATIONS FOR IMPROVED EFFICIENCY	5 Days	28 Oct–01 Nov 2019
Energy Efficiency & Energy Conservation, Process Efficiency & Equipment Efficiency (Boiler Efficiency, Turbine Efficiency. etc.), Measures to reduce Auxiliary Power Consumption and Heat Losses, Measures like Pump Coating, Blade Trimming, Variable Frequency Drive (VFD Control), etc. – Field Visit			
19.	PROTECTION SYSTEM IN EHV SUB-STATIONS & LINES	5 Days	04-08 Nov, 2019
EHV sub-station layout and bus bar arrangements - Fundamentals of protection and Code of Practice – Design, Selection, Construction & Installation of Instrument Transformers, - Introduction to protection aspects of EHV sub-stations and different type of protections - Transmission line protections, Transformer and reactive protection – AC/DC logics - General principles of transmission lines, protection, primary and backup protection – Distance protection schemes for long and short lines, etc.			
20.	TARIFF POLICY AND SUBMISSION OF ARRs – REGULATORY COMPLIANCE	4 Days	19-22, Nov 2019
Provisions on Tariff in EA 2003 and Tariff policy; Different Regulations and Guidelines on tariff design; Submission of ARRs by Power Companies; Tariff proposals in PPAs – fixation of tariff for Generation, Transmission and Distribution (retail tariff); Multi-year tariff concept; Competitive bidding – Tariff for multi licensees and emergency purchases & Role of Regulators			

21.	OPERATION, MAINTENANCE & PERFORMANCE MANAGEMENT OF SOLAR PV SYSTEM	5 Days	26-29, Nov 2019
Types of Solar PV systems, configurations, constructional aspects of panels, inverter and balance of plant – Operation & Maintenance practices for small and large scale Solar PV Systems – Use of SCADA for monitoring and performance measurements – Critical Performance Evaluation and Reliability techniques – Case Studies with PID effects and minimization techniques – Evaluation of Performance ratio and Weather correct performance ratio			
22.	OPERATION, MAINTENANCE & PROTECTION ASPECTS OF DISTRIBUTION SUB-STATIONS AND LINES	5 Days	02-06, Dec 2019
O & M of Switching equipment, Protection equipment, Control equipment and transformers in power distribution system - O&M of Distribution substation and lines, Code of practice in Sub Station and lines Operations, Work permits, line clear procedure, Maintenance of log books, Records, etc., Distribution Automation & SCADA, Geographical Information System, Concept of Intelligent Substations			
23.	DESIGN, CONSTRUCTION & TESTING OF DISTRIBUTION SUB-STATION AND LINES	5 Days	09-13, Dec 2019
Design, Construction, Testing & Commissioning of Sub-station (Indoor & Out door) – Bus-Bar Arrangements - Reactive power compensation – Earthing practices in a substation - Power transformer - operating principle, erection and testing & commissioning - Testing & Commissioning of Instrument Transformers and Breakers - Protection in a Sub-station – Battery and Battery Chargers.			
24.	DISTRIBUTION LOSS REDUCTION – ISSUES, CHALLENGES AND REMEDIAL MEASURES	4 Days	17-20, Dec 2019
Electricity Act 2003 Provisions of theft/pilferage and penal codes – Energy Accounting and Auditing - CEA's metering code on metering, accuracy levels, installation, wiring and sealing – Theft in electro-mechanical and electronic meters – Advance metering technologies – Energy management – UDAY scheme – Revenue assessment, penal tariffs, recovery of losses – Smart grid, a modernized electricity grid – Customer Relation management – HVDS and capacitor banks.			
25.	CHALLENGES & OPPORTUNITIES IN POWER DISTRIBUTION	4 Days	06-09, Jan 2020
24x7 Power - Reliability and Quality issues – Digitalization and Smart City concept – Adaptation of Smart Metering & Smart Grid Techniques – Loss Minimization and Efficiency improvement – Effective Outage and Power Management System – Increase stake of Renewable Energy – Grid Management issues – Electrical Vehicles and Charging – Multiple Licensee in Distribution – Open Access for Retail Consumers.			
26.	O & M OF EHV SUB-STATION & LINES AND QUALITY ASSURANCE	5 Days	07-11, Jan 2020
EHV Equipment selection and sizing, EHV Equipment erection, operation and maintenance, condition monitoring of EHV equipment, Protection of transformers and lines, Erection, Commissioning, Operation and Maintenance of Transmission Lines, Emergency Restoration System; Hot Line Maintenance and Safety Aspects.			
27.	UNDERGROUND CABLES – DESIGN, SELECTION, LAYING, MONITORING & FAULT DETECTION	4 Days	21-24, Jan 2020
Modern trends in Underground Cabling – Basic Concepts, Selection, Types and Design of Underground including Standards of Cables - Primary & Detailed Survey, Laying of Cable, Jointing, Testing and Commissioning - Fault Location of Cables - Maintenance & Trouble Shooting & Earthing of Underground Cables - Problems encountered during conversion of overhead lines to underground cables.			

28.	POWER TRANSMISSION LINES - DESIGN CONSTRUCTION AND O&M	4 Days	28-31, Jan 2020
Planning and System Engineering, Feasibility Report Preparation, Design, Engineering & Specification Finalization, Procurement Practices, Project Management & Monitoring Quality Assurance, Construction Practices, Operation & Maintenance, Safety Live Line Maintenance Techniques - using Hot Stick Method, using Bare Hand Method, Live Switch Yard Maintenance, Live Line Insulator Washing, Live Line Testing of Punctured Insulator Detection.			
29.	POWER TRANSFORMER - TESTING, COMMISSIONING, PROTECTION & MAINTENANCE	4 Days	04-07, Feb 2020
Insulation resistance measurement, winding resistance measurement, magnetic current test, magnetic balance test, vector group confirmation short circuit test and differential stability, ref stability test, etc., Conditions leading to faults, protective relays, differential protection, overcurrent protection, ground fault protection, monitors for protection.			
30.	REGULATORY FRAMEWORK	4 Days	04-07, Feb 2020
CEA Regulations - connectivity, metering, construction of electrical plant and electrical lines, Implementation of case I & case II bid route projects for generation capacity addition, drafting petitions and cases studies - Electricity Act 2003 - Legal framework, electricity policy and tariff policy - Indian Electricity Grid Code Regulations and Grid Standards Regulations 2010 - Energy conservation act 2001 - Sharing of In Inter State Transmission Charges and Losses Regulations 2010 (Technical and commercial aspects) - Grant of Regulatory Approval for execution of Inter State Transmission Scheme to Central Transmission Utility Regulations 2010.			
31.	LABOUR LAWS - PROCEDURES IN DEALING WITH COURT CASES	4 Days	11-14, Feb 2020
Basic Concepts & Sources of Law - Procedural and Substantial Law; Jurisdiction of Courts; Hierarchy of Courts; Legal Terminology, etc. - Alternate Dispute Mechanism - Lok Adalats - Types of Writs - Labour Laws - ESI, EPF and Contract Labour Act, Employees' Compensation Act - Procedure to be Followed in Respect of Court Cases & Pursuance Required.			
32.	GEOGRAPHICAL INFORMATION SYSTEMS (GIS)	5 Days	24-28, Feb 2020
Concept of Remote Sensing: - Elements of Remote Sensing, Satellite Remote Sensing & Sensors - Fundamentals of GIS: - Basics of Geography & Cartography, Map Projections - GIS Data Preparation & Analysis.			
33.	CLOUD COMPUTING, CYBER SECURITY, DATA MINING	3 Days	03-05, Mar 2020
Basic Principles of Cloud Computing - Threats & counter measures - Basic Principles of Data Mining			
34.	PROJECT PLANNING & DPR PREPARATIONS	4 Days	02-05, Mar 2020
Project Appraisal Methodologies- Project Formulation & Preparation of DPRs - Financial appraisal and monitoring of REC projects - Technical Appraisal of Power projects - Financing of Power projects - Energy Appraisal - Security mechanism, repayment terms, NPA norms, etc.			
35.	BEST PRACTICES IN HR MANAGEMENT OF POWER UTILITIES	5 Days	16-20, Mar 2020
Organizational Setup - Roles and Responsibilities of Employees - Change Management, Labour Laws and Union Management, Compensation Management - Conduct Rules, Disciplinary Procedures, Service, Rules, etc,- Employee Engagement, Management of Industrial Relationships and Conflicts - Inter personal relationship, Strategic Management, Creative thinking - Personality Development, Behavioural aspects - Decision Making, Motivation and Communication Skills - Work-life balance, Stress management, Change Management - Employee relationship, Promotional avenues - Health Management and training needs - Industrial Case Studies.			

2 International Training Programmes

(SPONSORED BY MINISTRY OF EXTERNAL AFFAIRS, GOI UNDER ITEC)



S. No.	Name of the Programme	No. of Weeks	Dates
1	Certificate Course in Power Distribution Management	6	24 June - 02 August 2019
2	Concept to Commission of Solar Power Plants	6	24 June - 02 August 2019
3	Design, Erection, Operation, Maintenance and Protection of EHV Substations	6	19 August - 27 September 2019
4	Financial Management & Accounting Standards for Power Utilities	6	19 August - 27 September 2019
5	Planning and Management of Power Transmission and Distribution System	8	21 October 2019 - 13 December 2019
6	Emerging Trends in Rural Electrification & Power Management	8	21 October 2019 - 13 December 2019
7	Green Energy Development for sustainable power sector	6	06 January - 14 February 2020
8	Planning, Operation and Maintenance of Power Generation projects	6	17 February - 27 March 2020
9	Certificate Course in Electric Power Management	12	06 January - 27 March 2020



Field visit of International Participants



Field visit of International Participants



In-house Training Programmes for REC Employees



S. No.	Name of the Programme	Brief Contents	Dates
1	Managing Change in Power Sector	Managing Change in Power Sector – Issues & Challenges, New Initiatives of Government of India- DDUGJY, Saubhagya, 24x7 Electricity, etc. - Transformational Leadership -Building Effective Teams - Managerial Communication Building Effective Interpersonal Relations- How to manage Conflicts - Approaches to Conflict Resolution	22- 24 April 2019
2	Concept to Commissioning of Solar Power Plant including O&M	Renewable Policies & solar Missions, Opportunities and challenges, RECs, Renewable grid parity and integration. Basics of Solar PV Technology (different configuration like Grid connected Rooftop) Module, Inverter & Structure standards & Selection. Design with PV syst, Testing & Commissioning . Quality control, O&M	26-28 Jun 2019
3	Leadership and Communication Skills	Role of Leader, Understanding of Team, Leadership styles and methods, Effective Leader and their attributes; Performance Management, Setting Objectives; Relationship Management; Self-Appraisal; Creating enthusiasm and motivation – Presentation Skills – Role Play – Group discussions, etc.	7-9 Aug 2019
4	Loan Documentation	Sanction Letter; Loan documentation – Alternate securities, Loan agreement/ Bulk hypothecation deed/Tripartite Escrow Agreement/Bulk Guarantee deed/ Board resolutions and checklist for documentation; Procedure for hypothecation of assets – Types of mortgage, Procedure for valuation of assets; Due diligence verification of Escrow cover; Filing of charge/creation of charges with ROC, etc.	4-6 Sep 2019
5	Purchase Procedures and e-procurement	Purchasing system – Purchase Procedures – Tender Document Development - Vendor Rating and Vendor development – Contract Management and Managing Risk – e-procurement – GEM Portal – Hands on Experience on GEM portal & Tender Wizard	4-6 Sep 2019
6	Behavioral Skills	Change Management in Power Sector –Latest Policies, New initiatives, Funding Mechanisms – Effective Communication Skills – Customer Relations Quality of Supply, Standards of Performance– Enhancing Leadership qualities Transformational Leadership, Personality Development – Values Actualization, Conflict Resolution, Group Dynamics & Team	14-16 Oct 2019

S. No.	Name of the Programme	Brief Contents	Dates
7	Renewable Energy Projects Appraisal and Financing	Renewable Policies, Wind Power opportunity & Challenges Solar & Hybrid Solar, Solar PV Technology Design, Erection and commissioning , CAPEX & O&M Cost- Case Studies DPR. Technical & Financial Appraisal, DBFOO Model,	13-15 Nov 2019
8	Project Management & Appraisal	Project Life cycle, Project Charter, Project planning, PERT/CPM, Project Evaluation, Project Monitoring, Risk Management. DPR for generation, Transmission and distribution projects	04-06 Dec 2019
9	Regulatory Reform & business Opportunity	Power Sector Scenario, Regulatory Landscape. ARR & Tariff policy, National Tariff policy, Renewable Policy , Proposed Regulatory Amendments-Carries & contents, Business Horizon with New Regulation in Renewable, E Mobility, Smart Meter & Smart grid etc., Environmental Norm and alternate business like FGD etc	22-24 Jan 2020
10	Managing Change in Power Sector	Managing Change in Power Sector – Issues & Challenges, New Initiatives of Government of India- DDUGJY, Saubhagya, 24x7 Electricity, etc. - Transformational Leadership -Building Effective Teams - Managerial Communication Building Effective Interpersonal Relations- How to manage Conflicts - Approaches to Conflict Resolution	10-12 Feb 2020

**TRAINING PROGRAMME ON
MANAGING CHANGE IN POWER SECTOR
for REC TOP LEVEL EXECUTIVES
22-04-2019 TO 24-04-2019**





C & D Employees Training Programme at Mangaluru



SAUBHAGYA Program at NBPDC, Patna



MoU / Customised / Tailor-made Programmes (Illustrative)

S. No.	Name of the Technical Programme	Duration
1	Pilferage of Electricity - Issues, Challenges and Remedial Measures	
2	Power Factor Improvement and Reactive Power Management	
3	Technical Specifications, Construction Standards for Distribution Systems	
4	Latest Trends in Metering, Billing and Collection	
5	Earthing Practices and Safety Measures in Electrical Installations	
6	Technical Aspects for Non-Technical Executives	
7	Design & Construction of Distribution Substations & Lines	
8	O & M of Distribution Sub-Station & Lines	
9	Protection System in Distribution	
10	Gas Insulated and Indoor Sub-stations	
11	Testing, Commissioning & Construction of Distribution Sub-Station and Lines	
12	Operation, Maintenance and Protection Aspects of Distribution Transformers	
13	Energy Audit & Technical Loss Reduction	
14	Underground Cables - Design, Laying & Testing	
15	Solar Power Projects - Grid Enabling	

S. No.	Name of the Non-Technical Programme	Duration
1	Power Purchase Agreement	
2	Ind AS (IFRS) Adoption in Power Sector	
3	Finance for Non-Finance Executives	
4	Best Practices in HR Management of Power Utilities	
5	Open Access, Power Trading & ABT	
6	Tariff Policy and Submission of ARR - Regulatory Compliance	
7	Power Trading & Energy Exchange	
8	Companies Act 2013 and Corporate Governance	
9	General Management	
10	Personality Development & Stress Management	
11	Leadership Skills & Team Work	
12	Communication & Negotiation Skill	

5 Specialized Programmes



1 Project Management of Power Distribution System **4 Days**

Project Formulation - Life Cycle, Planning, Scheduling, PERT/CPM, Budgeting Risk Analysis - Preparation of DPR- Technical and Financial Appraisal methods - Power distribution System- Construction Standards, Specifications and Best practices - Procurement - Bid process management, Development of bid document (RFP), Specifications of material, e-tendering, e- reverse auction, Contract/bid closure; Project implementation - Approach, Phasing plan, Sourcing of funds - Field visit of substation incorporating latest trends like smart grid, DCS system etc and cultural visit for the participants - TQM- Need for quality control, assessing requirements, drafting quality plan and Quality Management and Documentation - Monitoring Methodologies and Project Evaluation techniques, Corrective actions.

2 Latest CERC Tariff Regulations Vs Financial Viability - Issues & Challenges **4 Days**

Provisions of Electricity Act, 2003 on tariff fixation & basic tariff design - National Tariff Policy- objectives, salient features amendments with reasons, General approach to tariff fixation - CERC Tariff regulations - amendments, CERC tariff Regulation 19-24 (Draft), Features of consultancy paper circulated, objections and comments raised - Deviations from CERC tariff Regulations 14-19, statement of reasons, shortcomings and Impact, CERC tariff regulations for renewable power Plants - Competitive Bidding, guidelines and case studies - SERC regulations and guidelines for ARR submission, costing and pricing approach for tariff fixation - Case studies of tariff fixation for Transmission under CERC regulation 2019-24 - Tariff fixation for a generation plant under PPA route.

3 Demand Side Management (DSM) **3 Days**

DSM Policy, regulation and implementation:
policy Landscape: Energy Conservation Act 2001, Electricity Act 2003, National Electricity Policy 2005, Energy Conservation (Amendment) Act 2010, INDC of India, Behavioural Energy Efficiency Integrated Resource Planning, Metering & Tariff, Load forecasting for DSM
DSM strategies- Utility & consumer Awareness
Cost & Benefit of DSM Project, Financing Aspects

4 Renewable Integration **4 Days**

CEA Technical Standards for Connectivity to the Grid
Technical & Economic impact of Renewable Integration
IEGC (Grid code) & DSM
Power system flexibility
Grid parity & Green the Grid Challenges
Technical Standards for Connectivity to the Grid

5 Turnaround of DISCOMs **4 Days**

DSM Policy, regulation and implementation:
policy Landscape: Energy Conservation Act 2001, Electricity Act 2003, National Electricity Policy 2005, Energy Conservation (Amendment) Act 2010, INDC of India, Behavioural Energy Efficiency Integrated Resource Planning, Metering & Tariff, Load forecasting for DSM
DSM strategies- Utility & consumer Awareness
Cost & Benefit of DSM Project, Financing Aspects



Behavioural Skills

Programmes - REC Sponsored

Name of the Programme

BEHAVIOURAL SKILLS

Brief Contents

Change Management in Power Sector- Over view of Power Sector, Latest Policies, New initiatives, Funding Mechanisms; Effective Communication skills - Personal grooming& etiquette, Interpersonal communication, Behavioural and workplace communication; Customer Relations - CRM, Customer Care Centre, use of websites, e-services, etc. Quality of Supply, Standards of Performance and Citizens Charter; Enhancing Leadership qualities - Components of Leadership, Leadership skills development, How to become motivational and Transformational leader; Personality Development - Values actualization, Managing attitude towards work activities; Conflict Resolution - Concept and Type of conflicts, Handling / Managing & Resolving conflicts; Group Dynamics & Team building - Team work principles & practices, Building of successful teams, Managing team relations

No. of Days

3

TRAINING PROGRAMME ON BEHAVIORAL SKILLS



at Jammu & Kashmir



at Raipur



at Warangal

MINISTRY OF POWER (MOP) SPONSORED PROGRAMMS



National Training Programmes for C&D Category of Employees (sponsored Under DDUGJY)

- 1 Lineman Training Programme** **4 Days**

Basics of Electricity; Electricity Act 2003; Functions of Distribution Company – Duties & Responsibilities of Linemen; Service Connection, DDUGJY, IPDS; Types of Cables, Transformer Erection, Commissioning & Maintenance, Construction of Line; Line Inspection & Maintenance; Earthing; Metering, Billing & Collection, Power Factor Improvement, Field Visit to 33/11 KV Substation and Metering & Transformer Shed, Theft of Energy & Vigilance, Safety; Customer Relation Management
- 2 Energy Metering and Billing (Variant-2)** **2 Days**

Power Sector Scenario in India; Electricity Act 2003, Basics of Electricity and AT&C Losses - Meters and their uses, Energy Metering, Billing & Collection, Consumer Indexing - Tariff Structure, Prevention of Theft of Energy Conservation of Energy - Customer Relation Management - Field visit to Meter Testing Laboratory.
- 3 Energy Metering and Billing (Variant-3)** **3 Days**

Power Sector Scenario in India; Electricity Act 2003, Basics of Electricity and AT&C Losses - Meters and their uses, Energy Metering, Advanced Metering – Time – of – Day Metering, Meter Reading Instruments, Tele – Metering, Prepayment Meters, Spot Billing CEA Metering Code, Energy Accounting and Auditing; Billing & Collection, Consumer Indexing – Tariff Structure, Prevention of Theft of Energy Conservation of Energy- Field visit to Meter Testing Laboratory.
- 4 Financial Management Stores Accounting & Office Administration** **3 Days**

Functions of Electricity Distribution Company- Electricity Act 2003, DDUGJY, IPDS, Procurement contracts & CVC Guidelines, Systems & Procedures for Works Execution, RTI Act, Motivation & Interpersonal Relations, Consumer Service and Care; Consumer Indexing, Energy Accounting and Auditing, Tariffs & Revenue Management, Stores Management, Financial accounting & budgetary control, Service Regulations – Staff welfare activities, Establishment & Staff Payment, etc.
- 5 Safety, Accident Prevention and Disaster Management** **2 Days**

Basics of Electricity, Electricity parameters, provisions related to safety and Safety Measures, Accidents - Causes and Prevention of Accidents, – Demonstration of usage of safety equipment, Earthing Practices in Electrical Installations, Fire prevention & Firefighting equipment, First Aid Practices, Disaster Management - Field visit to 33/11 KV substation.
- 6 IT Skills** **3 Days**

Introduction to Office Automation, Computer Operating system, Trouble shooting of Systems, Ms-Word, Hand on experience on MS-Word, Ms-Excel, Ms-Excel (Calculations, Formula), Hand on experience on MS-Excel, Internet & Email - Internet safety.
- 7 Operation & Maintenance of Distribution Transformers, Prevention of Failures & Repairs** **3 Days**

Basics of Electricity, Transformers–Operating principles, various parts and their functions, Features & Types of Distribution transformers – Transformer Oil Characteristics: Filtration and reclamation techniques, Erection, testing and commissioning of distribution transformers, Earthing of distribution transformers, Distribution transformers specifications; protective devices and maintenance, Failure of Distribution transformers – causes and remedial measures; Field visits.



Integrated Power Development Scheme (IPDS) Programmes (sponsored by Ministry of Power, GoI/PFC)

3 Days Programmes

1 **Best Practices in Distribution Operation & Management System** Theme **T-6**

Exposure to best practices in operation and maintenance of all the equipment and gadgets in distribution system – Revisiting the safety procedures, accident prevention practices – Latest tools and techniques for better operation & efficient maintenance – Exposure to new technologies that help in quick fault location detection – Maintenance philosophy and benefits of preventive and predictive maintenance vis-à-vis break down maintenance, etc.



2 **Efficiency Improvement Measures in Distribution System** Theme **T-11**

Implications of Demand Side Management (DSM) – Interdependence of DSM and reliable and quality power supply – Role, functions and responsibilities of DSM Cell – Different types of DSM measures/applications in the industrial, commercial, agricultural/rural and domestic sectors – Learning about pre-implementation issues, implementation issues, and post-implementation issues in DSM applications – Role of franchisee and distribution company in DSM, etc.

3 **Revenue Management & Loss Reduction** Theme **T-14**

Energy Accounting and auditing in distribution system to assess various losses, viz., technical, commercial and AT&C and causes thereof – Insight into sources of technical losses and methods of controlling them – GIS application in distribution network analysis – Distribution automation and other new technology application in distribution – Legal empowerment of distribution utilities to control power theft, etc.

4 **Communication & Soft Skills** Theme **T-16**

Employees' skills development – Basics of Communication practices and inter-personal dynamics – Enhancing job satisfaction, upward mobility and overall commitment to the utility goals and missions – Methods of implementing and sustaining healthy and positive motivation of employees, etc.

5 **Regulatory** Theme **T-19**

Economic, legal, and social rationale for electricity distribution regulation – Role of regulation under the new legislation and economic environments – Types of regulation and rate making approaches – Regulation of quality of electricity supply and service, etc.

6 **IT General** Theme **T-1**

Introduction to Computer, Internet, Networking, Email, Hardware etc.; Element of Word, Excel, Power Point or similar packages, Customer Care Services, MIS, e-Governance, Data Center Operations and Maintenance etc.

7 **IT in Distribution** Theme **T-2**

IT System for Metering, Billing and Collection; System Integration Aspects; Development of Customer Information System (CIS)

8 **GIS Applications** Theme **T-3**

Concept and design of GIS Consumer Indexing and Asset Mapping; GIS based integrated Electrical Network Analysis

9 **SCADA & Smart Grid Application** Theme **T-4**

SCADA, Smart Grid

10 **Distribution Equipment - Technology and Applications** Theme **T-7**

Design, Selection, Specifications of distribution equipment's; Testing & quality control, erection & commissioning of distribution equipment's; Operation & Maintenance, corrective & preventive maintenance, failure analysis etc. Learning about pre& post-implementation issues in DSM applications.

12 **Lineman Training- Operation & Maintenance of Sub-stations** Theme **T-9**

Operation & Maintenance, corrective & preventive maintenance, failure analysis etc. Learning about pre-implementation issues, implementation issues & post implantation issues in DSM applications

13 **Change Management in Power Distribution** Theme **T-10**

Why change is required? Knowledge of the changed scenario; Process of change; People's perspective and roles of Managers; International case studies and best practices for change management.

15 **General Management in Power Distribution** Theme **T-13**

Understanding the impact of health and existing distributions system in power supply; Conceptualization of project development; Insight into the DPR components; Understand Distribution system Planning - analysis & design; Tools available for development of viable schemes; Development of network schems, cost estimates, payback period and return on investment; Process of appraisal of DPR; Issues - Urban & Rural DPRs

17 **Performance benchmarking and quality of supply and service** Theme **T-17**

Needs, objectives and benefits of setting up performance benchmarks; Identification and monitoring of key performance indicators; Comparison of organizations operations with peer DISCOMs and utilities - Understand customer services with respect to quality of electric supply; Regulatory requirements and performance benchmarking; Needs and process of change management to achieve objective of benchmarking.

11 **Disaster Management, Electrical Safety Procedures & Accident Prevention** Theme **T-8**

An in-depth understanding of electrical safety procedures, and accident prevention techniques; Learning how to manage the situation after an accident has occurred; Participatory learning to fight the fire; First aid techniques to assist the victims of an accident; Preparedness required for various types of disasters (flood, storms etc.); Learning to cope with the situations created by the various disasters; About roles and responsibility of utility officials in the accident prevention, preparedness to cope with the disaster, and response in the aftermath of accidents and disasters.

14 **Financial Management of Distribution Business** Theme **T-12**

Understanding of the fundamentals in financial management; Accounting practices; Financial statements demystified- Balance sheet, P&L account, Cash flow statements; Process in control - Systems, organization structure, budgeting etc; Planning process - Business plans, Operational and Capital budgets; Concept and uses of cost management; Cost & revenue tracking and reporting; Emerging tariff principles- MYT

16 **Metering technology & AMR application** Theme **T-15**

Automated Meter Reading Technology including date management; Accreditation of meter testing

18 **Material Management & Quality Assurance** Theme **T-18**

System approach; Forecasting, objective and material organization; Purchasing in material Management concepts -Quality Assurance; material quality control; Inventory and Control





Life at

RECIPMT

A beautiful and lush green campus of RECIPMT is spread over an area of around 14.3 acres fully equipped with facilities for meeting training needs of our valued Clients.

It is located on the National Highway No.44, at Aramgarh Circle, Shivarampally, Hyderabad which is about 16 Kms away from the Rajiv Gandhi International Airport, Shamshabad.



Conference Hall



Landscape

Class Rooms

State of the art class rooms with advanced training facilities are available. The Institute has latest teaching aids as well as full-fledged Computer lab and Wi-Fi facility. It also has an air-conditioned Conference Hall with a seating capacity of 70 members.



Class in Progress



Class in Progress

Library

RECIPMT Library is one of the specialized centres with about 5000 books and reference materials on the subjects like generation, transmission & distribution, energy efficiency and conservation, construction standards and specifications, management and information technology, electricity rules and laws, reforms and restructuring in power sector, etc. It subscribes to renowned journals on energy and power sector which caters to the information needs of the participants, in house faculty and guest faculty.



Books & Journals



Magazine Section

Hostel

RECIPMT has got 36 air-conditioned rooms, 2 VIP Suites and air-conditioned dining hall. All the rooms are provided with solar hot water facility & LED TV. The Hostel is equipped with Wi-Fi facility.



Dining Hall



Hostel Room

Recreation Facilities

Indoor games like Table Tennis, Chess and Caroms are available. Jogging Track of 1 km length, Badminton court and mini Gym are also available.



Gym



Table Tennis



Carrom



Jogging Track

Demonstration Facilities

RECIPMT has developed an Energy Park equipped with 40kwp Rooftop Solar PV System, 1kwp Solar Street Lights, 5kwp Solar Water Pumping System and HVDS Resource Centre along with HVDS System for demonstration.



Roof-Top Solar PV System



Solar Demo Lab



Demo HVDS System

Photo Gallery

Yoga Day at Institute



Cultural Visit & Field Visit



Participants



Faculty Members Internal

S.No	Name with Designation	Qualification	Specialization
1	SN Gaikwad, ED REC	BE (Elec.)	More than 3 decades experience in entire value chain of power sector project financing and monitoring, CSR and corporate training
2	Santosh Kumar Sahu, Director RECIPMT	M.Com, FICWA	30 Years of experience across Power Generation, Transmission & Distribution sector, financing and Disaster Management Ex CEO Facor Power, Ex-Director (Fin) OHPC & GEDCO
3	G. Shankar, Additional Director (AGM)	M.Sc.(Statistics), M. Tech	22 years of teaching experience in Power Distribution Sector which includes ICT Applications, Customer Management & Power Distribution Franchising
4	Dr. R. Mohd. Nafi, DGM	M.A. (Eco.), M. Phil., Ph. D	21 years of experience in Power Sector Reforms & Rural Electrification Programmes
5	Aparup Paul, Faculty	B.E. (Mech.), M.B.A.	19 years of experience in the area of Production, O & M of Thermal Power Plants and Energy Conservation.
6	Sudhir S Chopade, Faculty	B.E. (Elec), M. Tech.	19 years of experience in teaching and power plant training, Special interest includes Condition monitoring of HV equipment.
7	TSC Bosh Executive Director	B.E.(Elec.) & (Electronics)	DDUGJY, Rural Electrification, Quality Assurance, Monitoring and Evaluation, Distribution Management
8	G S Bhati Executive Director	B.E. (Elect.), Dip. in (Elect.)	DDUGJY, Rural Electrification, Quality Assurance, Distribution Management
9	VK Singh, Executive Director	B.E. (Elect.)	Generation Projects – Financing and Appraisal
10	Ajoy Choudhary, Executive director	B. Com (Hons.), ICWA	Loans and Financial Concurrences
11	CP Bhatia, General Manager	B. Com (Hons.), F C.A.	Corporate Social Responsibility, Corporate Planning, Sustainability Development, Project Financing
12	JS Amitabh, General Manager	B. Sc (Hons), LLB, CS	Companies Act, 2013; CSR, Corporate Governance
13	SL Batta, General Manager	BDGA, LLB, PGD in IT &Mgt	Loan Documentation, Labour Laws, Securitization, Arbitration & Conciliation
14	G Veer Mahender, General Manager	B.E.(Mech.), MBA, MDM	Entity Appraisal, Project Appraisal, Power Trading, Project Planning & Development, Development Economics and Strategic Management.

15	RP Vaishnav, General Manager	B.Com. / CA	Internal Auditing; Financing of Power Projects, Risk Management
16	P K Mukhopadhyay, General Manager	M. Tech (CS/IT)	Transformation of IT in PSUs; ERP Implementation; Information Security Management
17	Salil Kumar, General Manager	B.Tech	Vigilance for organizational excellence; Public/e-procurement; Preventive vigilance
18	Fuzail Ahmed, General Manager	B.Tech (Elect. Engg.)	Project Monitoring and Power Plant Familiarization; O&M of Transmission System; Construction and Quality Control Mechanism
19	Taruna Gupta , General Manager	MBA (Finance) , BA (Hons) - Economics	Investments, Merchant Banking, Resource Mobilization, Internal Audit, International Cooperation & Development, CSR
20	N. Venkatesan, General Manager	M. Tech., M.B.A.	23 years of experience in Project Formulation, Appraisal & Monitoring of Power Projects
21	N.K. Maurya, General Manager	B. Com., AICWA	Financial Accounting, Auditing, Cost Accounting, Cost Auditing, Internal Audit, CERC-Tariff Fixation related topics
22	P.S. Hariharan, General Manager	B.Tech (Mech.), M.Tech (Mech.), PGDC in IT & M	Project Investigation and Appraisal - Project Financing - Power generation projects
23	D.B. Londhe, AGM	B.E. (Electrical), MBA (Finance)	Hydroelectric Power Generation includes survey, investigation, construction, testing, commissioning, operation & maintenance
24	Saurabh Rastogi, General Manager	B. Tech (Mech.)	Financing of Renewable Energy Projects (Wind / Solar / Biomass / Small Hydro)
25	S. Muralidharan, AGM	CA, BSc (Maths)	Corporate Taxation, Asset Liability Management (ALM) and Loan Recovery
26	R Anbalagan, AGM	MBA (Finance) and ICWA (Inter)	Entity Appraisal System for State and Private Sector Power Utilities - Critical Evaluation of Borrowers/Promoters
27	APS Manocha, AGM	LL.B (Professional)	Project Financing, Loan Documentation and Litigation relating to recovery
28	A. Veluchamy, AGM	B.E., MBA, Chartered Engineer	Project Financing, Project Appraisals, AT&C Loss Reduction, Infrastructure Project management Fixation of Tariff and thermal power generation
29	Ch V Lakshmana Charyulu, DGM	B.E. (Civil),MBA	19 years of experience in project financing, appraisal, monitoring and financial analysis
30	JothiPriya R Dy Manger(Tech)	B.E., PGDC-TPPE	Thermal Power Generation and Project appraisal

Faculty Members External

Name of Guest Faculty	Specialization
SK Deo	Thermal Power Generation
C Sriprakash	Operation & Maintenance of Thermal Power Plants
IV Ramesh Kumar	Energy Conservation, Accounting & Audit in Thermal Power Stations
B. Jagadesh Prasad	Design of Hydro Power Plants
SV Ramana	Operation, Maintenance & Protection in Hydro Power Stations
KV Nageshwar Rao	R & M of Thermal Power Plants
K Venkata Rao	Operation of Thermal Power Plants and Trouble Shooting Aspects
D Sudharsan	O&M of Civil Works in Hydro Power Plants
Prof. P. Srinivasa Sarma	Quality Control of Civil Works in Power Generating Station
K Naidu	Gates & Hoists of Hydro Power Projects
K Tejaswara Rao	Civil Works of Infrastructure Facilities of Power Plant
R Biksham	Atomic Power Plant
M Gopala Rao	Power Transformer Operation and its Specification – Shunt Reactors
VVSRR Narasimha Rao	Erection, Testing and Commissioning of Power Transformers and Reactors
A Saiprasad Sarma	Availability based Tariff, Bus-bar arrangements and Reactive Power Compensation
J Dakshina Murthy	Protection in Transmission & Distribution and Reactive Power Compensation
S Ganesh Babu	Sub-Station Operation & Maintenance & Distribution Automation
G Mahesh Kumar	Power Transformers, Technical Loss Reduction & Power Factor Improvement
Tayi Krishna Rao	Transmission Tower Design and HVDC
K Ashok	Generation and Transmission Planning
L Parthasarathi	Transmission Planning & Load Flow Studies
Dr. TSR Murthy	Condition monitoring-Dissolved Gas & Furan Analysis and Residual life assessment
Dr. HS Kalsi	Circuit Breaker technologies & Erection and Testing
Dr. A Dharme	Demand Side Management, Transmission Congestion & Congestion Management
C Venkateswarulu	Protection System in Generation and Transmission
K Ramakrishnan	Hot line maintenance Techniques
M Srinivasulu	Hot line Maintenance of Transmission Lines & Sub-Stations
P Gopalakrishna	Sub-station Automation and Protection of Transmission lines
G Satyanarayana	Design, Erection and Commissioning of Gas Power Stations
S C Satyanarayana	O&M Shunt Reactors and Serious Capacitors
Ch Hanuman Rao	Transmission line Construction Management and Surveying
Y Pandhari Pande	Power Transformer Protection and Motor & Generator Protection
P Suryaprakash	Transmission Tower Design and Testing
P Srinivasa Rao	EHV Underground cables
Dr. G Mohan Rao	Gas Insulated Sub-stations
N Vijay Kumar	EHT Lines - Survey, Erection, Testing and Commissioning
K Murali Krishna	Transmission Lines & Sub-Stations
G Ramanaiah Chetty	Quality Control of EHV Substation
TV Rao	Design and Erection of substation structures
S Muzumdar	FACT System and Advanced Technologies
V Balaji	Billing and Settlement Code of Open Access & ABT – Payment Mechanism & Security
B Neelakantam	Transformer & Bus-Bar Protection & Fault Level Calculation

B Krishna Mohan Singh	Transmission Line Commissioning & Maintenance
Ch Narasimha Murthy	Technical Specification, Construction Standards and Load Forecasting
V Sudhakar	Load Forecast Techniques & Distribution System Planning
DS Sarma	Earthing & Safety Aspects, Technical & Commercial Reduction
L RadhaKrishna	Energy Accounting & Audit and GIS and GPS Application in Distribution
Ram Mohan Meda	Customer Management, Assessment of Theft of Energy & SCADA
P Narender Kumar	SCADA, Protection Aspects, Technical Loss Reduction, Sub-station Equipment & O&M
E M Chakravarthy	Metering Technologies, Protection in Distribution & SCADA
S Sunil Kumar	AT&C Losses, Metering Technologies, Billing and Collection
T Vijaya Kumar	Revenue Management & Commercial Loss Reduction
YS Rao	Theft & Pilferage of Electricity
Harsh Kumar Singh	IT orientation for Distribution Utilities
Atanu Das Gupta	SCADA, Automation & Smart Grid
P Krishna Reddy	Metering, Billing & Collection of Distribution
P Prasad	Communication Systems for Transmission
Phanindra Kumar	GIS & GPS Applications in Distribution
K Karuna Sagar	Project Management and Safety Management
Dr. Savita	First Aid - with reference to Electrical Accidents
MR Pawar	Solar Tracking System
Dr. T Surendra	Hybrid System & Solar PV Technologies
Dr. CVSN Murthy	Solar Insulation – Testing & Commissioning
ESS Sastry	Inverter Principles, Selection criterion for Grid Connected and off grid applications
N Ramchander	Solar Power Invertors & PV Systems, Best Practices of O&M of Solar PV Systems
Guruswami Revana	Bio-mass, Geo-Thermal, Tidal & Wind Power Generation
G Venu Madhav	Wind Power Systems
DK Astik	Ind AS Accounting Standards and IFRS
DVS Someswara Rao	PPA, Competitive Bidding & Generation Tariff
K Hariprasad	Preparation of Annual Revenue Requirements & Retail Tariff Fixation
K Jagadesh Reddy	Capital Budgeting, Costing and Cost Management
SL Narasimha Rao	Project Appraisal & Risk Analysis, Capital Budgeting
KV Ramesh	Tax Management
Smt. TS Maharani	Companies Act, CSR Implementation and Competitive Bidding guidelines
AV Rao	Companies Act and Corporate Governance
N Chandu Kumar	Budgeting, Strategic Financial Management and Financial Appraisal
KS Srinivas	EPF, ESI, Employee Compensation and Contract Labour Act
GB Sastry	Labour Laws, Compliance aspects and Procedures in dealing Court cases
AS Kumar	Customer Relation Management & Communication & Presentation Skill
C Vijayakumar	Motivating Self, Employee Motivation and Morale Development
Jagan Mohan Reddy	Leadership Skills and Communication
Dr. Sandhya Tiwari	Business Communications, Managing Change & Building Organizational Culture
K Srinivas	Time Management, Leadership Qualities, Positive Thinking & Attitude
Uday Shankar	Costing & Cost Management, Budgeting & Budgeting Control
D Murlidhar	Communication Skills, Leadership, Behavioral skills
Murtaza	Implimentation of GST, Imput Tax Credit
Radhika Varma	Impact of GST on Power Sector
Sudheer	Levy of Tax on Goods, GST regime, composition, exemption & filing



How to Register

1. The course fee for National Regular programme on residential basis is Rs. 8500/day/participant+GST18%. The course fee for Non-Residential participant is Rs 7500/day/participant+GST18%.
2. The course brochure containing the complete details of the each programme will be communicated by the concerned programme co-ordinator, 4 to 6 weeks before the commencement of the programme. The course fee will also be mentioned in the brochure.
3. The Programmes are mainly residential and conducted at RECIPMT Campus, Shivarampally, Hyderabad. Residential Fees includes boarding and lodging in addition to tuition fees, courseware & other facilities, field visit, etc. A Non-Residential fee excludes Boarding and Lodging.
4. The participants have to make their own transport arrangements to reach RECIPMT Campus.
5. 10% Group Discount will be available for three or more participants from same utility. The discount will be on participation basis.
6. The Course fee may be paid in advance by banker's cheque or demand draft drawn in favour of "REC Institute of Power Management and Training" payable at Hyderabad. However, the course fees can be paid also by NEFT/RTGS. Bank Details of RECIPMT are as follows:

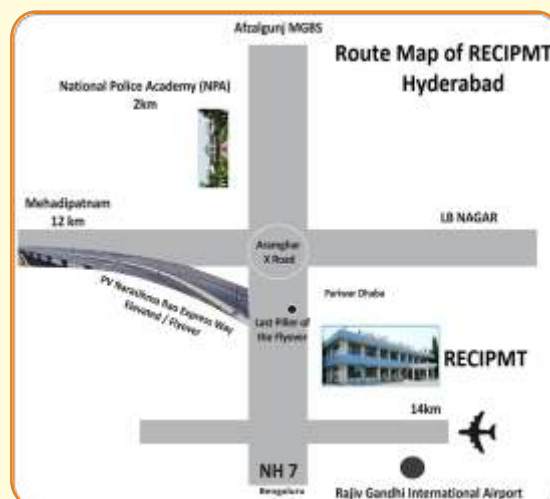
Name of the Bank	HDFC Bank Ltd.
Account No.	00210350000930
IFS Code	HDFC 0000021
MICR No.	500240002
Branch & Address	Lakdikapul Branch, Hyderabad
PAN	AAACR4512R
GSTIN	36AAACR4512R3Z0

7. Names of the nominating officers may be sent to the Director, REC Institute of Power Management & Training (RECIPMT), Shivarampally (Near Aramghar X Road), NPA Post, Hyderabad – 500052 along with the course fee. The nominations may also be send by E-mail: recipmt@gmail.com/recipmtrg@recl.in or Fax: 040-29805896.

How to Reach the Institute

RECIPMT is well connected to Rajiv Gandhi International Airport and three major railway stations which are Secunderabad, Kachiguda and Hyderabad (Nampally).

RECIPMT is nearly 16 Km away from Airport, as shown in the map. At Airport from ground level, radio cabs/ taxis are available 24 x 7. From Railway Stations, Pre-paid taxis/ autos are available to reach the Institute located at Aramgarh X roads on the National Highway No.7, towards Shamshabad Airport.



About Hyderabad



Hyderabad, the capital of Telangana State, is a picturesque sprawling city located about 1700 kms south of New Delhi, India's capital and nearly 800 kms to east of Mumbai, the business capital of India. It is situated at an elevation of 540 metres above the sea level and enjoys pleasant climate almost throughout the year. The city has many majestic historical monuments, mosques and marvelous minarets and palaces.

The ancient city of Hyderabad was ruled by Nizam who was fascinated for pearls and attracted traders/craftsmen to bring the best to this land. It is, therefore, is also known as pearl city. It is famous for Silver inlay work, popularly known as Bidri Ware.

The world famous monument Charminar – an imposing structure with 53 metres high – is an attraction of the city. On the western outskirts of the city, the historical Golconda Fort is located. The Salar Jung Museum, the world's largest one man collection, displays around 35,000 antiques and art objects.

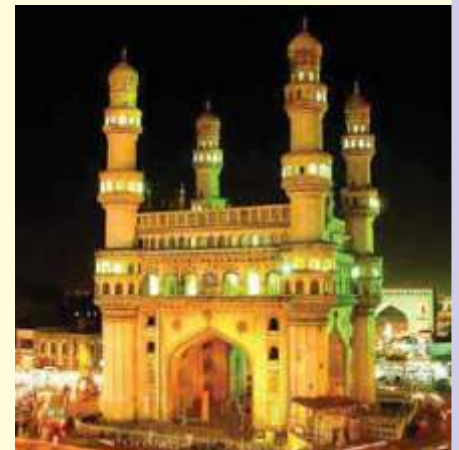
The Asia's biggest Film City i.e. Ramoji Film City is located about 30 kms away from city. The city also has one of the world's largest monolith statues of Lord Buddha, the

incarnation of peace in the middle of Hussain Sagar Lake.

Magnificent Cyber Towers, housing IT companies symbolizes the grand entry of IT era in Hyderabad City.

Hyderabad Special attraction

- Hyderabadi Biryani
- Osmania Biscuits
- Pearls and Bangles



IN-HOUSE PROGRAMMES FOR REC EMPLOYEES



S. No.	Name of the Programme	Dates
1	Managing Change In Power Sector	22-24 April, 2019
2	Concept To Commissioning Of Solar Power Plant Including O & M	26-28 June 2019
3	Loan Documentation	3-5 July 2019
4	Leadership And Communication Skills	07-09 August 2019
5	Purchase Procedures And E-procurement	4-6 Sep 2019
6	Behavioural Skills	14-16 Oct 2019
7	Renewable Energy Projects Appraisal And Financing	13-15 Nov 2019
8	Project Management And Appraisal	04- 06 Dec 2019
9	Regulatory Reforms And Business Opportunities	22-24 Jan 2020
10	Managing Change in Power Sector	10-12 Feb 2020

INTERNATIONAL TRAINING PROGRAMMES (Sponsored by Ministry of External Affairs, GOI under ITEC)

S. No.	Name of the Programme		Dates
1	Certificate Course in Power Distribution Management	6	24 Jun - 02 Aug 2019
2	Concept to Commission of Solar Power Plants	6	24 Jun - 02 Aug 2019
3	Design, Erection, Operation, Maintenance and Protection of EHV Substations	6	19 Aug - 27 Sep 2019
4	Financial Management & Accounting Standards for Power Utilities	6	19 Aug - 27 Sep 2019
5	Planning and Management of Power Transmission and Distribution System	8	21 Oct-13 Dec 2019
6	Emerging Trends in Rural Electrification & Power Management	8	21 Oct- 13 Dec 2019
7	Green Energy Development for Sustainable Power Sector	6	06 Jan-14 Feb 2020
8	Planning, Operation and Maintenance of Power Generation Projects	6	17 Feb - 27 Mar 2020
9	Certificate Course in Electric Power Management	12	06 Jan - 27 Mar 2020

For Further Information Please Contact

Santosh Kumar Sahu

Director

REC Institute of Power Management & Training

Shivarampally, NPA Post, Aramgarh X Roads,
Hyderabad, Telangana, INDIA - 500 052.

Off. Ph : 040-29805901, 29808583 & 29805897

Fax : 040-29805896

Email : recipmt@gmail.com/recipmt@recl.in/recipmtrg@recl.in

of _____

REC Limited

a Government of India Enterprise

Core-4, SCOPE Complex, 7 Lodhi Road, New Delhi - 110003

website : www.recindia.com | www.recipmt.com