

**CALENDAR OF TRAINING PROGRAMMES**  
**2022 – 2023**



**REC INSTITUTE OF POWER MANAGEMENT & TRAINING**  
**(Formerly Central Institute for Rural Electrification)**  
**of**  
**R E C Limited**  
**(Formerly Rural Electrification Corporation Limited)**  
**(A Government of India Enterprise)**

## About REC

REC a government of India central public sector organisation was established in 1969 to take ahead the cherished dream of government to establish a strong foundation of robust power sector to strengthen the emerging economy. 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 and Distribution.

As a Navaratna 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 rating 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 Rs. 50,000 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.

## About RECIPMT

REC Institute of Power Management and Training (RECIPMT) established under the aegis of REC Ltd a CPSE under Government of India is a premier Power Sector Training Institute, Recognised by Central Electricity Authority (CEA). RECIPMT is dedicatedly working for human resource development of power sector for more than last four decades. During the last four decades, RECIPMT has organized training programmes and workshops on Technical, Management, Finance & Accounts, HR, Information Technology and Energy Conservations relating to Power Generation, Transmission, Distribution and Renewable 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 2022, RECIPMT organised training for **2,91,452** C&D categories of employees of various power utilities. RECIPMT has also organised **41016** no of training of power distribution franchisees during the 11th plan.

### 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 of power utilities.**

programmes.

### VISION

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

RECIPMT is also organising training programmes for the Executives of International Power Sector Organisations. So far, trained **1747** executives from **98** countries by organising **104** batches of training to International Power Sector Executives. The duration of trainings varies from 4-12 weeks. Upto March 2022, the Institute has organized **2895** training programmes and **63787** 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

# CALENDAR OF TRAINING PROGRAMS - 2022-2023

## 1. NATIONAL TRAINING PROGRAMMES

National Regular Training Programmes are organized by RECIPMT for executives working in national power sector utilities on state of art topics and also area of interest of power utilities. These Training programmes are organized on both technical and non-technical topics covering advance areas related to power sector such as, Power Generation, Transmission, Distribution, Renewable sources, Finance, Management, HR and other important topics related to power sector. Considering the COVID-19 pandemic scenario, in addition to in campus classroom training programmes, RECIPMT has introduced some more online Webinars.

### A. ON LINE WEBINARS FOR POWER SECTOR EXECUTIVES

RECIPMT organizes every year Regular Training Programmes for national participants on state of art subjects of interest to power utilities. The Regular Programmes proposed through Webinar mode for the 2022-23 are as under:

S. No.	Name of the Programme	Dates/ No. of Days	Program Coordinator
1	<b>EARTHING PRACTICES AND SAFETY MEASURES IN ELECTRICAL INSTALLATIONS</b>	<b>26-28 Jul 2022/ 3 days</b>	<b>Dr. R. Md. Nafi</b>
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.			
2	<b>SMART METERS, AMI &amp; TECHNOLOGIES</b>	<b>27-29 Jul 2022/ 3 days</b>	<b>G Shankar</b>
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.			
3	<b>OPEN ACCESS, POWER EXCHANGES &amp; TRADING</b>	<b>27-29 Jul 2022/ 3 days</b>	<b>Aparup Paul</b>
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.			
4	<b>PROTECTION SYSTEM IN EHV SUB-STATIONS &amp; LINES</b>	<b>3-5 Aug 2022/ 3 days</b>	<b>Sudhir Chopade</b>
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.			
5	<b>UNDERGROUND CABLES – DESIGN, SELECTION, LAYING, MONITORING &amp; FAULT DETECTION</b>	<b>17-19 Aug 2022/ 3 days</b>	<b>G Shankar</b>
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.			

6	<b>POWER PURCHASE AGREEMENT</b>	<b>22-24 Aug 2022/ 3 days</b>	<b>Aparup Paul</b>
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			
7	<b>DISTRIBUTION LOSS REDUCTION - PILFERAGE OF ELECTRICITY – ISSUES, CHALLENGES AND REMEDIES</b>	<b>5-7 Sep 2022/ 3 days</b>	<b>G Shankar</b>
Energy Audit - Distribution Losses - Analysis of Aggregate Technical and Commercial (ATC) losses - Methods of Detection of Pilferage of Electricity and malpractices adopted, Remedial measures for arresting pilferage of electricity - Administrative, legal and technical measures for minimization of theft of electricity and distribution losses - Assessment and Penal Provisions - Electricity Act Provisions, Vigilance Operations – issues and challenges			
8	<b>TARIFF POLICY AND SUBMISSION OF ARRs – REGULATORY COMPLIANCE</b>	<b>13-15 Sep 2022/ 3 days</b>	<b>Aparup Paul</b>
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			
9	<b>DISTRIBUTION TRANSFORMERS - OPERATION &amp; MAINTENANCE PRACTICES FOR FAILURE MINIMIZATION</b>	<b>21-23 Sep 2022/ 3 days</b>	<b>Dr. R. Md. Nafi</b>
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.			
10	<b>O &amp; M OF EHV SUB-STATION &amp; LINES AND QUALITY ASSURANCE</b>	<b>26-28 Sep 2022/ 3 days</b>	<b>Sudhir Chopade</b>
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			
11	<b>DESIGN, CONSTRUCTION &amp; TESTING OF DISTRIBUTION SUB-STATION AND LINES</b>	<b>10-12 Oct 2022/ 3 days</b>	<b>G Shankar</b>
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			
12	<b>LABOUR LAWS - PROCEDURES IN DEALING WITH COURT CASES</b>	<b>17-19 Oct 2022/ 3 days</b>	<b>Dr. R. Md. Nafi</b>
Basic Concepts & Sources of Law - Procedural and Substantial Law; Jurisdiction of Courts; Hierarchy of Courts; Legal Terminology, etc. - Alternate Dispute Mechanism - Lok Adalat - Types of Writs - Labour Laws - ESI, EPF and Contract Labour Act, Employees' Compensation Act – RTI Act - Procedure in dealing the Court Cases & Pursuance Required			
13	<b>OPERATION, MAINTENANCE &amp; PROTECTION OF DISTRIBUTION SUB-STATIONS AND LINES</b>	<b>2-4 Nov 2022/ 3 days</b>	<b>Dr. R. Md. Nafi</b>
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			
14	<b>GAS INSULATED &amp; INDOOR SUB-STATIONS</b>	<b>15-17 Nov 2022/ 3 days</b>	<b>Sudhir Chopade</b>



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

15	<b>POWER FACTOR IMPROVEMENT AND REACTIVE POWER MANAGEMENT</b>	<b>22-24 Nov 2022/ 3 days</b>	<b>Aparup Paul</b>
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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.

16	<b>CONCEPT TO COMMISSIONING OF SOLAR POWER PLANTS – ON GRID AND OFF GRID</b>	<b>6-8 Dec 2022/ 3 days</b>	<b>Sudhir Chopade</b>
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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.

## B. CLASSROOM PROGRAMMES FOR POWER SECTOR EXECUTIVES

RECIPMT organizes every year Regular Training Programmes for national participants on state of art subjects of interest to power utilities. The Regular Programmes proposed through Classroom mode for the 2022-23 are as under:

S. No	Name of the Programme	Dates/ No. of Days	Program Coordinator
1	<b>CONCEPT TO COMMISSIONING OF SOLAR POWER PLANTS – ON GRID AND OFF GRID</b>	<b>2-5 Aug 2022/ 4 days</b>	<b>Sudhir Chopade</b>
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.			
2	<b>SMART METERS, AMI &amp; TECHNOLOGIES</b>	<b>6-9 Sep 2022/ 4 days</b>	<b>G Shankar</b>
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.			
3	<b>POWER TRANSFORMER – TESTING, COMMISSIONING, PROTECTION &amp; MAINTENANCE</b>	<b>13-16 Sep 2022/ 4 days</b>	<b>Dr. R. Md. Nafi</b>
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.			
4	<b>OPEN ACCESS, POWER EXCHANGES &amp; TRADING</b>	<b>19-22 Sep 2022/ 4 days</b>	<b>Aparup Paul</b>
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.			
5	<b>DESIGN, CONSTRUCTION &amp; QUALITY CONTROL OF EHV SUBSTATIONS &amp; LINES</b>	<b>26-29 Sep 2022/ 4 days</b>	<b>Sudhir Chopade</b>

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			
6	<b>DESIGN, CONSTRUCTION &amp; TESTING OF DISTRIBUTION SUB-STATION AND LINES</b>	<b>15-18 Nov 2022/ 4 days</b>	<b>G Shankar</b>
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			
7	<b>O &amp; M OF EHV SUB-STATION &amp; LINES AND QUALITY ASSURANCE</b>	<b>21-24 Nov 2022/ 4 days</b>	<b>Aparup Paul</b>
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			
8	<b>PROTECTION SYSTEM IN EHV SUB-STATIONS &amp; LINES</b>	<b>6-9 Dec 2022/ 4 days</b>	<b>Sudhir Chopade</b>
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.			
9	<b>DISTRIBUTION TRANSFORMERS - OPERATION &amp; MAINTENANCE PRACTICES FOR FAILURE MINIMIZATION</b>	<b>13-16 Dec 2022/ 4 days</b>	<b>Dr. R. Md. Nafi</b>
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.			
10	<b>DISTRIBUTION LOSS REDUCTION - PILFERAGE OF ELECTRICITY – ISSUES, CHALLENGES AND REMEDIES</b>	<b>19-22 Dec 2022/ 3 days</b>	<b>G Shankar</b>
Energy Audit - Distribution Losses - Analysis of Aggregate Technical and Commercial (ATC) losses - Methods of Detection of Pilferage of Electricity and malpractices adopted, Remedial measures for arresting pilferage of electricity - Administrative, legal and technical measures for minimization of theft of electricity and distribution losses - Assessment and Penal Provisions - Electricity Act Provisions, Vigilance Operations – issues and challenges			
11	<b>OPERATION, MAINTENANCE &amp; PROTECTION OF DISTRIBUTION SUB-STATIONS AND LINES</b>	<b>3-6 Jan 2023/ 4 days</b>	<b>Dr. R. Md. Nafi</b>
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			
12	<b>TARIFF POLICY AND SUBMISSION OF ARRs – REGULATORY COMPLIANCE</b>	<b>9-12 Jan 2023/ 3 days</b>	<b>Aparup Paul</b>
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			

## 2. IN-HOUSE PROGRAMS FOR REC EMPLOYEES

### A. CLASSROOM MODE

S. No.	Name of the Programme	No. of Days
1	RDS Scheme overview and Smart Metering Technologies & Applications	3 days
2	Organizational Behavior Skills towards Managing Change in Power Sector	3 days
3	Loan Documentation	3 days
4	Purchase Procedures and e-procurement through GeM	3 days
5	Advanced MS Excel & PowerPoint	3 days

### B. ONLINE WEBINAR

S. No.	Name of the Programme	No. of Days
1	Sustainability of Power Sector - Electricity Act Amendments and its impact	2 days
2	Techno-Commercial Improvement of Discom's Performance	2 days
3	ERP	2 days
4	GST Implementation	2 days
5	Project Appraisal	2 days

### 3a. e-ITEC PROGRAMS SPONSORED BY MEA, GOI – ONLINE/WEBINAR

S. No.	Name of the Online/Webinar Courses	Duration (in weeks)	Period	
			From	To
1	CONCEPTS TO COMMISSIONING OF SOLAR POWER PLANTS	3	04-Jul-22	22-Jul-22
2	BEST PRACTICES IN POWER DISTRIBUTION SECTOR	3	04-Jul-22	22-Jul-22
3	EMERGING TRENDS IN RURAL ELECTRIFICATION	3	25-Jul-22	12-Aug 22
4	DESIGN, TESTING AND COMMISSIONING OF EHV SUBSTATIONS AND LINES	3	25-Jul-22	12-Aug 22
5	PLANNING, CONSTRUCTION AND MANAGEMENT OF POWER DISTRIBUTION SYSTEM	3	05-Sep-22	23-Sep-22
6	OPERATION, MAINTENANCE AND PROTECTION OF EHV SUBSTATIONS AND LINES	3	05-Sep-22	23-Sep-22

### 3b. ITEC PROGRAMS SPONSORED BY MEA, GOI - CLASSROOM MODE

Sl. No.	Name of the Classroom Courses	Duration (in weeks)	Period	
			From	To
1	CONCEPTS TO COMMISSIONING OF SOLAR POWER PLANTS	4	21-Nov-22	16-Dec-22
2	BEST PRACTICES IN POWER DISTRIBUTION SECTOR	4	21-Nov-22	16-Dec-22
3	EMERGING TRENDS IN RURAL ELECTRIFICATION	4	09-Jan-23	03-Feb 23
4	DESIGN, TESTING AND COMMISSIONING OF EHV SUBSTATIONS AND LINES	4	09-Jan-23	03-Feb 23
5	PLANNING, CONSTRUCTION AND MANAGEMENT OF POWER DISTRIBUTION SYSTEM	4	13-Feb-23	10-Mar-23
6	OPERATION, MAINTENANCE AND PROTECTION OF EHV SUBSTATIONS AND LINES	4	13-Feb-23	10-Mar-23



## 4. TRAINING PROGRAMMES SPONSORED BY REC LTD. FOR POWER SECTOR EXECUTIVES

### 4.1. ELECTRICAL SAFETY PROGRAM FOR POWER UTILITIES - CLASSROOM (For Middle and Junior Executives)

S. No	Name of the Program	Brief Contents	No. of Days
1	<b>ELECTRICAL SAFETY PRACTICES</b>	Safe working practices in Power Sector, CEA Safety Regulations 2010 and its Amendments - <b>Safety Code</b> for erection, operation & maintenance of Electrical Installations - Causes and Prevention of Accidents - Safety Tools - Electrical Safety Practices, line clearances and permits - Importance of Earthing - Step Potential, Ground Potential raise, Touch Potential, Transfer Potential – Methods of measuring & reducing Earth Resistance, Fire Safety - Prevention of Fire in Electrical Substations - Safety Audit - First Aid Practices in cases of Electrical Accidents - CPR - Artificial Respiration, etc. – Case Studies	3

### 4.2 TECHNO-COMMERCIAL IMPROVEMENT OF DISCOM'S PERFORMANCE (For Middle and Junior Executives) – TWO DAY WEBINARS`

S. No.	Name of the Programme	Brief Contents	No. of Days
1	<b>TECHNO-COMMERCIAL IMPROVEMENT OF DISCOM'S PERFORMANCE</b>	Aggregate Technical and Commercial (AT&C) Losses – Loss Reduction Techniques – Average Cost of Supply (ACS) vs Average Revenue Realization (ARR), Energy Accounting & Audit, Metering at all Levels – Smart Metering - Reliability of the System, Billing & Collection Efficiency, Analysis of Financial Statement for ARR filing, etc.	2

### 4.3. BEST PRACTICES FOR POWER UTILITIES – CLASSROOM (for Senior and Middle Executives)

S. No.	Name of the Programme	Brief Contents	No. of Days
1	<b>BEST PRACTICES FOR POWER UTILITIES</b>	Adoptin of Best practices from domestic and global experience towards efficiency & profitability and towards affordable, reliable and sustainable power supply, Future of Utilities with Reformative Measures	3

## 5. CUSTOMIZED PROGRAMMES FOR POWER UTILITIES

RECIPMT conducts Customized Training Programmes on the subjects, based on the interest of the power utilities. RECIPMT also designs programmes on the specific requirement of the power utilities by entering into MoUs and conducts the same either at RECIPMT premises or at the premises of the utilities. Further, RECIPMT also conducts Induction Training Programmes for newly recruited employees as part of MoU signing.

S. No.	Name of Technical Programme	Duration
1	Design & Construction of Distribution Substations & Lines	5 days
2	Technical Specifications, Construction Standards for Distribution Systems	5 days
3	Concept to Commissioning of Solar Power Projects	5 days
4	Technical Aspects for Non-Technical Executives	5 days
5	Testing, Commissioning & Construction of Distribution Sub-Station and Lines	4 days
6	Earthing Practices and Safety Measures in Electrical Installations	4 days
7	O & M of Distribution Sub-Station & Lines	4 days
8	Distribution Loss Reduction - Pilferage of Electricity – Issues, Challenges and Remedial Measures	4 days
9	Protection System in Distribution	3 days
10	Gas Insulated and Indoor Sub-stations	3 days
11	Operation, Maintenance and Protection Aspects of Distribution Transformers	3 days
12	Energy Audit & Technical Loss Reduction	3 days
13	Underground Cables – Design, Laying, Testing & Fault Detection	3 days
14	Latest Trends in Metering, Billing and Collection	3 days
15	Power Factor Improvement and Reactive Power Management	3 days
S. No.	Name of Non-Technical Programme	Duration
1	Ind AS (IFRS) Adoption in Power Sector	5 days
2	Finance for Non-Finance Executives	5 days
3	Best Practices in HR Management of Power Utilities	4 days
4	General Management & Leadership Skills	4 days
5	Open Access, Power Trading & ABT	3 days
6	Tariff Policy and Submission of ARR - Regulatory Compliance	3 days
7	Power Trading & Energy Exchange	3 days
8	Companies Act 2013 and Corporate Governance	3 days
9	Implementation of Goods and Services Tax (GST)	3 days
10	Power Purchase Agreement	3 days
11	Personality Development, Communication & Negotiation Skill	3 days
12	Motivation, Team Work & Stress Management	3 days

## 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 X Roads, Shivarampally, Hyderabad which is about 16 Kms away from the new Rajiv Gandhi International Airport, Shamshabad.

**Landscape**



**Roof-Top Solar PV System**



## 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.

## 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.



**Mini-Gym**



**Table Tennis**

## **CLASSROOMS**

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.



**Conference Hall**



**Classroom**



**Computer Lab**

## **LIBRARY**

RECIPMT Library is one of the specialized centers 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 faculties.



## **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**



## FACULTY MEMBERS – INTERNAL

S. No.	Name with Designation	Specialization
1	TSC Bosh, Executive Director	DDUGJY, Rural Electrification, Quality Assurance, Monitoring and Evaluation, Distribution Management
2	Santosh Kumar Sahu, Director	30 years of experience across Power Generation, Transmission & Distribution Sector, Financing and Disaster Management, Ex-CEO of Facor Power and Ex-Director (Fin) of OHPC & GEDCO
3	G. Shankar, Additional Director	23 years of experience in Power Distribution Sector which includes ICT Applications, Customer Management & Distribution Franchising
4	Dr. R. Mohd. Nafi, General Manager	23 years of experience in Power Sector & Rural Electrification
5	Aparup Paul, Faculty (DGM)	20 years of experience in the area of Production, O & M of Thermal Power Plants and Energy Conservation.
6	Sudhir S Chopade, Faculty (DGM)	20 years of experience in teaching and power plant training, Special interest includes Condition monitoring of HV equipment.
7	Fuzail Ahmed, Executive Director	Project Monitoring and Power Plant Familiarization; O&M of Transmission System; Construction and Quality Control Mechanism
8	RP Vaishnav, Executive Director	Internal Auditing; Financing of Power Projects, Risk Management
9	JS Amitabh, Executive Director	Companies Act, 2013; CSR, Corporate Governance
10	Salil Kumar, CGM	Vigilance for Organizational Excellence; Public/e-procurement; Preventive Vigilance
11	Taruna Gupta, CGM	Investments, Merchant Banking, Resource Mobilization, Internal Audit, International Cooperation & Development, CSR
12	N. Venkatesan, CGM	23 years of experience in Project Formulation, Appraisal & Monitoring of Power Projects
13	N.K. Maurya, CGM	Financial Accounting, Auditing, Cost Accounting, Cost Auditing, Internal Audit, CERC-Tariff Fixation related topics
14	P.S. Hariharan, CGM	Project Investigation and Appraisal - Project Financing - Generation projects
15	Saurabh Rastogi, CGM	Financing of Renewable Energy Projects (Wind Solar/Biomass/Small Hydro)
16	S. Muralidharan, CGM	Corporate Taxation, Asset Liability Management & Loan Recovery
17	R Anbalagan, CGM	Entity Appraisal System for State and Private Sector Power Utilities - Critical Evaluation of Borrowers/Promoters
18	APS Manocha, CGM	Project Financing, Loan Documentation and Litigations
19	D.B. Londhe, Sr GM	Hydroelectric Power Generation includes survey, investigation, construction, testing, commissioning, operation & maintenance
20	A. Veluchamy, Sr.GM	Project Financing, Project Appraisals, AT&C Loss Reduction, Infrastructure Project Management & Fixation of Tariff
21	Ch V Lakshmana Charyulu, GM	19 years of experience in project financing, appraisal, monitoring and financial analysis



## FACULTY MEMBERS – EXTERNAL

In addition to in house faculties, RECIPMT has empaneled subject experts from different areas of power sector all over India. The list below is indicative and is not extensive.

Name of Guest Faculty	Specialization
SK Deo	Thermal Power Generation
C Sriprakash	Operation & Maintenance of Thermal Power Plants
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
RV Ramana Rao	CEA's safety regulations, Earthing Practices, Safety Management Systems
V Sektaram	Accident Prevention, work permit systems, Factories Act & Site Emergency Plans
M Gopala Rao	Power Transformer Operation and its Specification – Shunt Reactors
A Saiprasad Sarma	Availability based Tariff, Bus-bar arrangements and Reactive Power Compensation
S Ganesh Babu	Sub-Station Operation & Maintenance & Distribution Automation
G Mahesh Kumar	Power Transformers, Technical Loss Reduction & Power Factor Improvement
L Parthasarathi	Generation and Transmission Planning & Load Flow Studies
Dr. HS Kalsi	Circuit Breaker technologies & Erection and Testing
C Venkateswarulu	Protection System in Generation and Transmission
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
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
V Balaji	Billing and Settlement Code of Open Access & ABT – Payment Mechanism
B Neelakantam	Transformer & Bus-Bar Protection & Fault Level Calculation
Ch Narasimha Murthy	Technical Specification, Construction Standards and Load Forecasting
V Sudhakar	Load Forecast Techniques & Distribution System Planning
L RadhaKrishna	Energy Accounting & Audit and GIS and GPS Application in Distribution
P Narender Kumar	SCADA, Protection Aspects, Technical Loss Reduction, Sub-station Equipment
E M Chakravarthy	Metering Technologies, Protection in Distribution & SCADA
S Sunil Kumar	AT&C Losses, Metering Technologies, Billing and Collection
S Subramanian	Safety Aspects in Distribution & Transmission & Technical Loss Reduction
Atanu Das Gupta	SCADA, Automation & Smart Grid
B Muralidhar Rao	CEA Regulations on Safety, Safety Code & Audit
Phanindra Kumar	GIS & GPS Applications in Distribution
ESS Sastry	Inverter Principles, Selection criterion for Grid Connected and off grid applications
N Ramchander	Solar Power Invertors & PV Systems
Guruswami Revana	Bio-Mass, Geo-Thermal, Tidal & Wind Power Generation
DK Astik	Ind AS Accounting Standards and IFRS
DV Someswara Rao	PPA, Competitive Bidding & Generation Tariff
K Hariprasad	Preparation of Annual Revenue Requirements & Retail Tariff Fixation
C Jagadesh Reddy	Capital Budgeting, Project Appraisal & Risk Analysis and Cost Management
N Chandu Kumar	Budgeting, Strategic Financial Management and Financial Appraisal
KS Srinivas	EPF, ESI, Employee Compensation and Contract Labour Act
AS Kumar	Customer Relation Management & Communication & Presentation Skill
C Vijayakumar	Motivating Self, Employee Motivation and Morale Development
Dr. Sandhya Tiwari	Business Communications, Managing Change & Building Organizational Culture
K Srinivas	Time Management, Leadership Qualities, Positive Thinking & Attitude
D Murlidhar	Communication Skills, Leadership, Behavioral skills

## HOW TO REGISTER

1. **Considering Post Covid Scenario**, the course fee for National Regular programme on residential basis is **Rs. 6500/day/ participant + 18% GST**. The course fee for **Non-Residential participant** is **Rs. 5500/day/ participant + 18% GST**. The course fee for Webinars is **Rs. 2000/- per day/ participant + 18% GST**.
2. The Programmes are mainly residential and conducted at RECIPMT Campus, Shivarampally, Hyderabad. However, Considering COVID-19 Scenario, we have announced 2 days online WEBINARS.
3. Residential Fees includes boarding and lodging in addition to tuition fees, courseware & other facilities, field visit, etc. whereas Non-Residential fee excludes Boarding and Lodging.
4. The participants have to make their own transport arrangements to reach RECIPMT Campus.
5. **Bulk orders and customised requirements from utilities are welcome in advance. We will be happy to discuss requirements and offer special discounts for such requirements on annual basis to utilities through special MOU mechanism on receiving request from utilities.**
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. The course fees can also be paid by NEFT/RTGS. The Bank Details of RECIPMT are as follows:

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

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

**FOR FURTHER INFORMATION  
PLEASE CONTACT**

**SANTOSH KUMAR SAHU  
DIRECTOR**



**आर ई सी इंस्टीट्यूट ऑफ पावर मैनेजमेंट अँड ट्रेनिंग  
(पूर्व सेंट्रल इंस्टीट्यूट फॉर रुरल इलेक्ट्रिफिकेशन)**

**R E C INSTITUTE OF POWER MANAGEMENT AND TRAINING**

(Formerly Central Institute for Rural Electrification)

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