## **CALENDAR OF TRAINING PROGRAMS - 2023-2024**

## 1. NATIONAL TRAINING PROGRAMMES FOR POWER EXECUTIVES

National Regular Training Programmes are organized by RECIPMT for executives working in national power sector utilities on state of art topics and also on the areas relevant to present scenario. These Training programmes are organized on both technical and non-technical topics covering, Power Generation, Transmission, Distribution, Renewable Energy, Finance, Management, HR and other important topics related to power sector. The National Regular Programmes proposed through Classroom mode for the year 2023-24 are as under:

S.	Name of the Programme	Dates/	Coordinator		
No.	5	No. of Days	S/Shri		
	DISTRIBUTION TRANSFORMERS - OPERATION &	25-28 Jul 2023/	Dr. RM		
1	MAINTENANCE PRACTICES AND FAILURE	4 days	Nafi		
	MINIMIZATION	•			
	Developments in Materials and manufacturing of electrical equipments				
	ation Transformers, Erection, Testing and Commissioning of Distribu				
	eristics, Filtration and Reclamation Techniques, Maintenance of Di	stribution Transform	ers, Protection		
and Fai	lure Analysis of Distribution Transformers.				
2	O & M OF EHV SUB-STATION, LINES AND QUALITY	8-11 Aug 2023/	Sudhir		
	ASSURANCE	4 days	Chopade		
	quipment Selection and Sizing, EHV Equipment Erection, Operation				
	ring of EHV equipment, Protection of Transformers and lines, Erecti		A		
Mainter	nance of Transmission Lines, Emergency Restoration System; Hot Li				
3	POWER TRANSFORMER – TESTING,	22-25 Aug 2023/	Dr. RM		
	<b>COMMISSIONING, PROTECTION &amp; MAINTENANCE</b>	4 days	Nafi		
	Power transformer - principles of operation, parallel operation, OLTC and best practices in Erection, Testing &				
	Commissioning, Transformer oil – Standards -Testing and oil filtration of power transformer – Periodical,				
Preventive and Break down Maintenance and Power transformer failure analysis, Condition monitoring of Power					
	mer - DGA, Furan and RLA, Protection systems- digital & nume	erical, Earthing of e	arth resistance		
,Factory testing & Procedure with connection diagrams					
4	SMART METERING TECHNOLOGIES FOR	12-15 Sep 2023/	Himabindu		
-	DISTRIBUTION SECTOR	4 days			
Meterin	g need, conventional vs advance metering, requirements, Smart Meter	rs, Components, Sma	rt Meter (HES,		
	important features, Digitization of grid, Need for Infrastructure				
	tion networks, Advance Metering Infrastructure (AMI)- Technolog				
· ·	cifications, Standard Bidding Documents, procurement method	ologies,(TOTEX,CA	PEX,OPEX )		
Addressing Issues related to Bidding and Procurement.					
5	GENERAL NETWORK ACCESS (OPEN ACCES), POWER	12-15 Sep 2023/	Ramesh		
	TRADING & EXCHANGES	4 days	Betha		
General network access, Open Access - Electricity Act, New amendments, 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					
6	BEST PRACTICE IN HR MANAGEMENT FOR POWER	10-13 Oct 2023/	Sudhir		
	UTILITIES	4 days	Chopade		
	Power sector scenario, issues and challenges, Dynamics in Power sector, expectations of stake holders and				
mitigating them by adoption of innovative HR practices, developing learning atmosphere, role of Training and					
	Development, Values and Ethics, Behavioural aspects, Motivation, work life balance and creating an				
organisation a best place to work a win-win scenario.					

7	DESIGN, CONSTRUCTION & TESTING OF DISTRIBUTION SUB-STATION AND LINES	10-13 Oct 2023/	Ramesh Betha			
Design	'       DISTRIBUTION SUB-STATION AND LINES       4 days       Betha         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,					
Erectio	on and Testing & Commissioning - Testing & Commissioning of Instr	ument Transformers	and Breakers -			
Protect	tion in a Sub-station – Battery and Battery Chargers		1			
8	DISTRIBUTION LOSS REDUCTION, THEFT OF ENERGY, ISSUES, CHALLENGES AND REMEDIAL MESURES	17-20 Oct 2023/ 4 days	Dr RM Nafi			
Techni	ical Losses in Distribution Business, Commercial Losses, Energy A	ccounting and Audit	- Distribution			
	Losses - Analysis of Aggregate Technical and Commercial (ATC) losses - Pilferage of Electricity and					
	actices, Remedial measures, Administrative, legal and technical mea					
	city and distribution losses - Assessment and Penal Provisions - El	•	•			
	tions – issues and challenges, best practices in improving metering, B	illing & Collection of	t electricity for			
sustain	able operation of DISCOMS.	17-20 Oct 2023/	Sudhir			
9	<b>PROTECTION SYSTEM IN EHV SUB–STATIONS &amp; LINES</b>	4 days	Chopade			
Type c	of faults, Need of Protection systems, understanding power system op	ě – – – – – – – – – – – – – – – – – – –				
	s overload and fault, relay technologies, fault identification, restricting					
	protective relays, Fault current calculations, Fundamentals and philos					
	es for important equipment's and lines, Special protection Schemes a					
and sta	ability of grid.		-			
10	CONCEPT TO COMMISSIONING OF SOLAR POWER PLANTS – ON GRID AND OFF GRID	21-24 Nov 2023/ 4 days	Ramesh Betha			
Overvi	iew of solar PV Systems - issues and challenges; Design Concepts of	solar PV systems. Be	est practices of			
	on, Testing, Commissioning, O&M of solar power plants, Methods of					
		SYST), Selection of modules, inverters and structures & detailed Bill of Material, Performance measurement,				
Reliability Testing, Qualification tests, IEC Standards 61215 & 61646; Typical faults and diagnosis, Safety						
Kenau	ility Testing, Qualification tests, IEC Standards 61215 & 61646; T					
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14	POWER PURCHASE AGREEMENTS AND INTRECASIES IN POWER MANAGEMENT	12-15 Dec 2023/ 4 days	Ramesh Betha			
Draft	Draft EA amendment of 2018, proposed amendment in 2021-22, Provisions for Electricity purchase,					
	taking and obligations of the developer and Power Utility; Acceptance					
	rgy; Tariffs, Force majeure, Buy-out clause, Dispute Settlement Mecha					
	of Regulatory Commissions; PPA for Renewable, Power Market, N					
	t Based Security, Role of forecasting and optimising power purchas	e cost. Dealing with	Legalities and			
Intrica	cies in Power Purchase. ENERGY TRANSITION, PROMOTION OF GREEN	12-15 Dec 2023/	Sudhir			
15	ENERGY AND BEST PRACTICES	4 days	Chopade			
	ng Energy need, Economic issues, Climate change, government					
	ologies, dropping cost and improving reliabilities, historic investmen					
•	s, nationally determined contributions (NDCs), carbon neutral strate	gies and implementa	ition in power			
sector	Best cases discussion and way ahead. TECHNO COMMERCIAL IMPROVEMENTS OF	19-22 Dec 2023/	Himabindu			
16	DISCOMS – ISSUES & CHALLENGES	19-22 Dec 2025/ 4 days	пппаріпци			
Under	standing Balance sheet of DISCOMS, Important Techno Comm		r DISCOMS			
	standing of Income and Expenditure components, Controllable tec					
	X and OPEX requirements, Best Practices for improving baselines for					
	vs Average Revenue Realization (ARR), Analysis of Financial State					
· · · · ·	and regulatory practices to improve operational efficiency of DISCO		,			
	<b>RECENT REGULATIONS IN GRID MANAGEMENT AND</b>	19-22 Dec 2023/	Sudhir			
17	SECURITY ISSUES	4 days	Chopade			
Grid Operation, Regulations and guidelines role of SLDCs in stable operational, Optimal load forecasting & scheduling, RPC's, OCC and PCSC role s and responsibilities, Technical aspects in Transmission Congestion Management-TTC/ATC, Grid connectivity procedure LTOA, MTOA&STOA, GNA &TGNA regulations, ABT, DSM regulations 2022/23 & Case studies, POC, Grid security measures Islanding Cross border regulations, REMC Challenges in Grid balancing and operation, Grid Failures-Case studies - Role of Voltage stability-Reactive Power Management, Grid Ancillary services & Cyber security in SLDC						
18	LABOUR LAWS - PROCEDURES IN DEALING WITH COURT CASES	02-05 Jan 2024/ 4 days	Dr. RM Nafi			
Basic	Concepts Indian scenario, Importance of Law - Procedural practices;	Jurisdiction of Courts	; Hierarchy of			
	; Legal Terminology, etc Alternate Dispute Mechanism - Lok Adal		· ·			
	EPF and Contract Labour Act, Employees' Compensation Act – RTL	• 1				
Cases	& Pursuance Required, compliances, Forms and formats, dealing with	n special cases and Di	scussions			
	DESIGN, CONSTRUCTION & QUALITY CONTROL OF	29 Jan – 1 Feb	Ramesh			
19	EHV SUBSTATIONS & LINES	2024/	Betha			
		4 days				
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						
		ub-Station Automatic	on			
20	UNDERGROUND CABLES –SELECTION, SIZING,	ub-Station Automatic 6-9 Feb 2024/	• •			
20	UNDERGROUND CABLES –SELECTION, SIZING, LAYING, MONITORING & FAULT DETECTION	ub-Station Automatic 6-9 Feb 2024/ 4 days	on Himabindu			
20 Moder	UNDERGROUND CABLES –SELECTION, SIZING, LAYING, MONITORING & FAULT DETECTION rn trends in Underground Cabling – Basic Concepts, Selection, T	ub-Station Automatic 6-9 Feb 2024/ 4 days ypes and Design of	Himabindu Underground			
20 Moder includ	UNDERGROUND CABLES –SELECTION, SIZING, LAYING, MONITORING & FAULT DETECTION rn trends in Underground Cabling – Basic Concepts, Selection, T ing Standards of Cables - Primary & Detailed Survey, Laying	ub-Station Automatic 6-9 Feb 2024/ 4 days ypes and Design of of Cable, Jointing.	Himabindu Underground Testing and			
20 Moder includ Comm	UNDERGROUND CABLES –SELECTION, SIZING, LAYING, MONITORING & FAULT DETECTION rn trends in Underground Cabling – Basic Concepts, Selection, T	ub-Station Automatic 6-9 Feb 2024/ 4 days ypes and Design of of Cable, Jointing poting & Earthing of	Himabindu Underground Testing and			

## HOW TO REGISTER

- 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.
- 2. Programmes are mainly residential and conducted at RECIPMT Campus, Shivarampally, Hyderabad.
- 3. A discount of 10% on above course fees is offered for participation up to 3 nominations per programme and a discount of 20 % offered for participation 4 and above nominations per programme. However, the discount will be offered on participation basis.
- 4. Residential course Fees includes **boarding and lodging at RECIPMT Hostel in addition to tuition fees, courseware & other facilities, field visit, etc.** whereas Non-Residential fee **excludes** Boarding and Lodging of the participants.
- 5. The participants have to make their own transport arrangements to reach RECIPMT Campus.
- 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	HDFC Bank Ltd.
Account No.	00210350000930
IFS Code	HDFC 0000021
MICR No.	500240002
Branch & Address	Lakdikapul Branch,
Dialicii & Address	Hyderabad
PAN	AAACR4512R
GSTIN	36AAACR4512R3Z0

- 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 Email: recipmt@gmail.com/ recipmt@recl.in.
- 8. Bulk orders and customized 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 A MOU mechanism on receiving request from utilities. The details of Customized programs are given at Page 10.