

Central Institute for Rural Electrification (CIRE)

■ About the Institute

Central Institute for Rural Electrification (CIRE) was established at Hyderabad in 1979 under the aegis of Rural Electrification Corporation Limited (A Government of India Enterprise) to cater to the training and development needs of engineers and managers of Power and Energy Sector and other organizations concerned with Power and Energy.

It is located in the institutional area near Acharya NG Ranga Agricultural University, AP on the way to Rajiv Gandhi International Airport, on National Highway no. 7 leading to Bangalore. The Institute campus is spread over about 14 acres with Administration, Teaching and Hostel blocks.

The Institute has organized 785 training programmes and 16,213 officers from State Electricity Boards, Power Distribution Companies, Electricity Departments, Rural Electric Cooperatives, Banks, Regulatory Commissions, Power Utilities, Power Companies, Rural Development Agencies etc. participated in various programmes.

■ Objectives

- ☞ To design and conduct training programmes in electricity transmission & distribution and encourage in adoption of innovative and cost effective modern technologies.
- ☞ To organize training programme in both conventional and non-conventional energy areas and also to conduct programmes related to development of techno-managerial efficiency of power utilities/industry.
- ☞ To organize tailor-made programmes suitable to the needs of State Electricity Boards (SEBs), Distribution Companies, Rural Electric Cooperatives and other Power Utilities/Private Power Companies.
- ☞ To associate with other institution and bodies in furtherance of the interests of Rural Electrification (RE) and energy development programmes.

■ Training for Whom

- ☞ Personnel from SEBs, Distribution Companies involved in the formulation and implementation of RE Projects and also O&M Officers of the power supply systems right from Junior Level to Senior Executives.
- ☞ Personnel of various cadres from Rural Electric Cooperatives
- ☞ Officers of other development agencies associated with Rural Energy
- ☞ Officers of CPSUs, Power Utilities, Manufacturing Industries and Independent Power Producers.
- ☞ REC Officers and Staff

■ Training

Keeping in view, the emerging technologies, techno-managerial requirements of diversified clientele organizations, and also on the basis of feed back received from clientele organizations and participants, CIRE prepares Calendar of Training Programmes every year, broadly which has been classified into five categories:

Open Programmes

These programmes are conducted by CIRE, inviting participation from various organizations with a course fee of Rs.6,000/- for 4-day programme per participant and Rs.7,500/- for 5 day programme per participant and so on. These programmes are residential. A service tax and Education cess of 12.36% is levied over and above course fees.

Sponsored Programmes

The cost of these programmes are substantially borne by sponsoring organizations thereby there is no course fee chargeable. These are normally non-residential. The programmes sponsored by Ministry of Power, USAID, Department of Personnel and Training, MNES etc. come under this category..

Outstation Programmes

Tailor made programmes are designed to suit the requirements of clientele organizations and are organized at a place of clients choice. By and large, these programmes are planned whenever a group of 15-25 Officers from the clientele organization have to be trained. The lumpsum course fee for the programmes will be decided depending on the venue, number of participants and other related aspects. These programmes are not included in annual calendar. Similar programmes were organized for KPTCL, Pondicherry Electricity Department, Andaman & Nicobar Administration, etc., to mention a few.

Special Programmes:

CIRE also organizes special programmes on topics selected by clientele organizations and at a time convenient to them for a minimum of 20 participants. The programmes can be conducted either at CIRE campus with substantial reduction in the course fee or at a place preferred by client. CIRE has successfully organized such special programmes to APTRANSCO engineers titled as "Executive Orientation Workshops", to APCPDCL on "Demand Side Management with specific reference to Agricultural Pumping Systems" and to NTPC Electric Supply Company Limited (NESCL) engineers a 2 week "Distribution Management and Technologies programme" .

Seminars/Workshops:

CIRE also conducts National Seminars/Workshops on topical themes in collaboration with SEBs/Power Utilities, Software industry and other organizations in the power sector. One day workshops on "Clean Development Mechanism – Opportunities for Power Sector" were organized at Hyderabad, Chandigarh and Kolkatta under the sponsorship of KfW, Germany.

International Programmes:

CIRE has also conducted International Programmes for the Electrical Engineers of Indonesia and South Asian Countries. The Institute is now empanelled by Ministry of External Affairs, Gol for conducting programmes for foreign nationals under ITEC/SCAAP.

■ **Infrastructure:**

☛ **Teaching Facilities:**

The Institute is equipped with latest teaching aids like Computers, LCD/Data Projector, etc. and also has Internet and E-mail facility.



Dining Hall



Lounge



Hostel Room (AC)

☛ **Hostel:**

Hostel facilities in the Institute are upgraded to make the trainee participants more comfortable. Now the hostel has got 36 A/C rooms, 2 A/C VIP suites with an A/C dining hall, and also Internet and E-mail facility.

☛ **Library:**



It has a well maintained library with a wide range of collection on Energy Development, Energy Economics, Rural Electrification, Rural Energy, Energy Conservation, Transmission and Distribution, Rural Development, Information Technology, Financial Management, Project Management, Non-conventional energy sources, etc. and is subscribing to national and international journals with special emphasis on energy sector.

Energy Park

An Energy Park has been set up to develop awareness on Non Renewable Energy Sources System by demonstrating the technical and economic feasibility of such systems. It has a Solar Photovoltaic Street Lighting System, Solar Photovoltaic Lantern, Solar Water Heating System, Solar Photovoltaic Pumping System, Solar Cooker and a 4KW Wind Energy System with battery backup.



Solar Photovoltaic Street Light

Wind Energy System



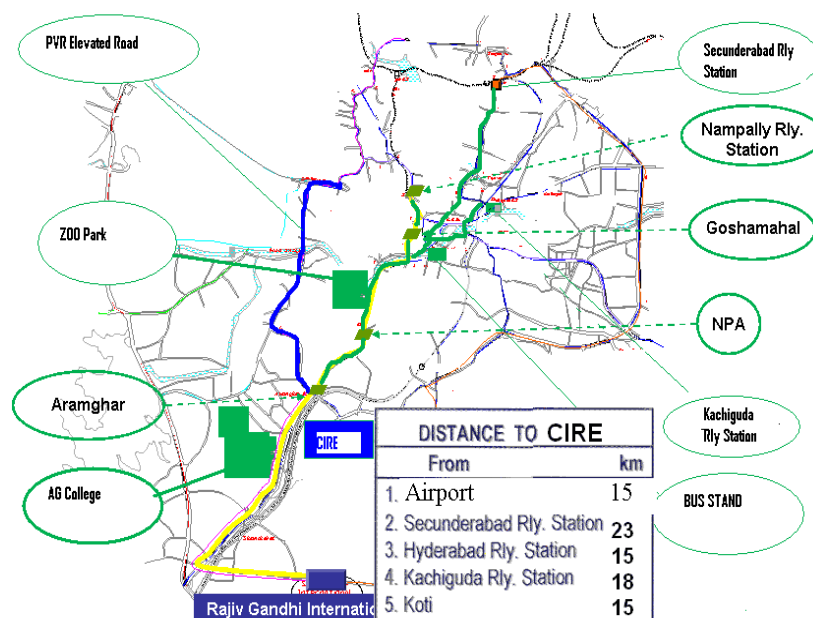
Solar Photovoltaic Pumping System Solar Water Heating System

🌿 Recreation Facilities:

Yoga, Chess, Carrom Boards, Table Tennis. A Jogging Track of about 1km length has been added.

■ **Contact Information:**

➤ **Route Map to CIRE:**



➤ **How to reach CIRE:**

From Airport, Secunderabad, Kachiguda and Hyderabad (Nampally) Railway Stations Pre-paid taxis/autos are available to reach Institute located on the National Highway no. 7, near Aram Garh X Roads, adjacent to Pariwar Dabha.

However, to reach the Institute by public transport

From Secunderabad / Kacheguda Railway Station

Board Bus No. 2 z and get down at Aram Garh X Roads and walk a furlong towards Shamshabad to locate institute

From Hyderabad Railway Station

Reach Afzalgunj by Bus and board bus Nos. 251,252,95, 2 Z etc. going towards Shamshabad. Get down at Aram Garh X Roads and walk a furlong towards Shamshabad to locate institute

From Rajiv Gandhi International Airport

Take a cab/auto/bus and get down at Institute/Aram Garh.

➤ **Address of Correspondence:**

CENTRAL INSTITUTE FOR RURAL ELECTRIFICATION

National Police Academy Post, Shivarampally, Hyderabad - 500 052.

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Central Institute for Rural Electrification : Hyderabad
of Rural Electrification Corporation Limited

A Government of India Enterprise

Training Programmes Organised During 2007 – 08

SI No	Programme	Duration (No.of days)
A	In House Programmes	
1	General Management (Including Statutory Acts)	5
2	Project Formulation, Appraisal & Monitoring and Processing of RGGVY, Generation and T & D Schemes	5
3	Computer Application	5
4	Record Management and MIS	5
5	Secretaries on Office Procedure	5
B	Regular Programmes	
1	Pilferage of Electricity – Technical and Legal Remedies	4
2	Energy Audit and Demand Side Management	4
3	Electricity Trading and Tariffs ABT Scenario	4
4	REC Specifications, Standards & Construction Practices	5
5	New Developments in Metering, Billing and Collection	5
6	Distribution Switchgear and Protection	5
7	Power Sector Accounting with Reference to ESAAR and GAAP	4
8	Distribution Automation, Load Management & SCADA	4
9	Power Purchase Agreements	5
10	Customer Satisfaction, Communication and Information Systems	4
11	Innovative and Cost Effective Technologies in Sub-Transmission and Distribution Technologies	4

C	DRUM Programmes	
1	Communication Skills, Employee Motivation and Moral Development	3
2	Communication Skills, Employee Motivation and Moral Development	3
3	Best Practices in Distribution Operation and Maintenance	5
4	Best Practices in Distribution Loss Reduction	5
5	Disaster Management Electrical Safety Procedures and Accident Prevention	5
6	Financial Management in Distribution Business	3
7	Financial Management in Distribution Business	3
8	Best Practices in Distribution Loss Reduction	5
9	Best Practices in Distribution Systems, Operation & Maintenance	5
10	Disaster Management Electrical Safety Procedures and Accident Prevention	5
11	Disaster Management Electrical Safety Procedures and Accident Prevention	5
12	Change Management in Power Distribution	5
13	Financial Management in Distribution Business	3
14	Financial Management in Distribution Business	3
15	Financial Management in Distribution Business	3
16	Best Practices in Distribution Loss Reduction	5
17	Best Practices in Systems Operation & Maintenance	5
18	Best practices in Agriculture pump sets and Rural DSM	3
19	Best practices in Agriculture pump sets and Rural DSM	3
20	Best Practices in Systems Operation & Maintenance	5
21	Disaster Management Electrical Safety Procedures and Accident Prevention	5
22	Communication Skills, Employees Motivation and Morale Development	3
23	Communication Skills, Employees Motivation and Morale Development	3
24	Distribution Efficiency and DSM	3

25	Disaster Management Electrical Safety Procedures and Accident Prevention	5
26	Communication Skills, Employees Motivation and Morale Development	3
27	Best Practices in Distribution Loss Reduction	5
28	Disaster Management Electrical Safety Procedures and Accident Prevention	5
29	Best Practices in Distribution Systems, Operation & Maintenance	5
30	Best Practices in Distribution Loss Reduction	5
31	Rural Distribution Franchisee	4
32	Best Practices in Distribution Loss Reduction	5
33	Best Practices in Distribution Systems, Operation & Maintenance	5
34	Disaster Management Electrical Safety Procedures and Accident Prevention	5
35	Customer Satisfaction, Communications and Outreach	5
36	Best practices in Agriculture Pumpsets and Rural DSM	3
37	Customer Satisfaction, Communications and Outreach	5
38	Best Practices in Distribution Systems, Operation & Maintenance	5
39	Disaster Management Electrical Safety Procedures and Accident Prevention	5
40	Best practices in Agriculture pump sets and Rural DSM	3
D	WORKSHOPS	
1	Workshop for training of Non-Executives of Power of the Distribution Sector	1
2	Clean Development Mechanism (CDM)- Opportunities for Power Sector at Hyderabad	1
3	Clean Development Mechanism (CDM)- Opportunities for Power Sector at Chandigarh	1
4	Clean Development Mechanism (CDM)- Opportunities for Power Sector at Kolkatta	1
E	INTERNATIONAL PROGRAMME	
1	Power Distribution Project Financing And Accounting Systems	54
2	Planning & Management of Power Sector in Developing Countries	54
3	Power Transmission and Distribution Management and Technologies	54

4	Rural Power Distribution and Energy Management	54
C	Programmes with IPE**	
1	Strategic Financial Management	4
2	Essentials of Finance for Non-Finance Executives	4

Training Calendar for 2008 – 09

A. REGULAR PROGRAMMES

Sl.No	Name of the Programme	Focus on	Date	Duration	Fees * inclusive of Service Tax
1	Availability Based Tariffs in Electricity Exchange Scenario	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 & Load Management with reference to ABT.	24 -27 June,08	4 days	6,742
2	Energy Management & Conservation in Power Sector	Principles of Energy Management and Strategy, Energy Accounting in different segments of power sector, Principles of energy auditing, Energy conservation, Energy Conservation Act 2001, Latest technology for energy conservation, Load Management & Case studies.	14 – 18 July, 08	5 days	8,427
3	Pilferage of Electricity – Technical and Legal Remedies	Detection of malpractices and methods being adopted, Analysis of commercial losses, Effective measures including administrative, legal and technical remedies for arresting pilferage of electricity, assessment, Provisions under Electricity Act 2003, Vigilance operations & Case studies.	15 – 18 July, 08	4 days	6,742
4	Specifications, Standards and Construction Practices in Distribution System	REC & IS Standards for equipment like transformers, conductors, supporters, circuit breakers, switched capacitors (HT/LT), construction practices of OH lines, 33/11 KV substations & Earth-grid of substation.	4 - 8 Aug, 08	5 days	8,427
5	New Developments in Metering Technologies	HT & LT Metering technologies, Electro mechanical Vs. Electronic meters, Automatic meter reading, Pre-paid meters, Remote metering, Software solutions for billing, Spot billing, CT Meters, Virtual Seamless Metering, Measures for prevention of theft of Energy, CAT analysis.	5 - 8 Aug, 08	4 days	6,742
6	Distribution Automation, Switchgear and Protection	Distribution Automation and SCADA System, Trends in Circuit Breaking Technologies, Vacuum/SF6 medium, Installation and Operation of Distribution Switchgear, Relaying and Protection Schemes, Auto-reclosers, Sectionalisers, HT/LT Switched Capacitors & Gas Insulated Sub-Station.	8 – 12 Sept, 08	5 days	8,427
7	Power Sector Accounting with Reference to ESAAR & GAAP	Existing legal framework for accounting and financial reporting, ESAAR 1985 & GAAP, Issues in application of accounting standards, Accounting for fixed assets, Lease accounting etc.	9 – 12 Sept, 08	4 days	6,742

8	Strategic Financial Management for Power Sector	Financial Statements – balance sheet, Profit and loss account, cash flow, guiding principles, financial analysis, funds flow, ratio analysis – liquidity, profitability and activity ratio, IT enabled finance management system, billing and accounting, budgeting, costing and integrated systems	14 – 17 Oct,08	4 days	6,742
9	Power & Distribution Transformers for Efficient Operation	Design, Construction, Operation & Maintenance aspects, Testing, Commissioning and Protection, Transformer Technologies & Specifications, Online Monitoring, Diagnostic Testing, Insulation Systems, Improved Cooling System, Dissolved Gas Analysis, Failure Analysis and Remedies, Gas Insulated sub-station, Labeling as per BEE (Energy Conservation Act 2001).	3 – 7 Nov, 08	5 days	8,427
10	Safety Management in Power Sector	Safety Codes & Manual, IE Rules, 1956, Best Earthing Practices, Safety Audit, Prevention of accidents, Best use of safety tools, Electricity shocks & First aid treatment, Fire accidents and use of fire fighting Equipments and its Maintenance – Case Studies	17 – 20 Nov, 08	4 days	6,742
11	Power Purchase Agreement	Undertaking and obligations of the developer and Power Utility, Acceptance test procedure, O&M of generating stations, Sale and purchase of energy, Tariffs, Force major, Buy-out clause, Arbitration & Conciliation Act 1996, Role of Regulatory Commissions & Electricity Act 2003	16 – 19 Dec, 08	4 days	6,742
12	Power Factor Improvement-Reactive Compensation	Methods of Power Factor Improvement, Types of reactors-purpose, Series and Shunt Capacitors, Calculation of required Capacitance, Erection methods and O&M of Capacitors banks, Synchronous condensers Details of erection, advantages, limitations	6 – 9 Jan, 09	4 days	6,742
13	Human Resources Management in Power Distribution Sector	Organizational setup, Maintenance of Human Relations, focusing on Customer, Nature of duties and responsibilities, safety, Administrative procedures and issues, Superior and subordinate relationship, conduct rules, Disciplinary procedures, Communications skills, Personality Development, Stress Management, Human Psychology, .Training to personnel.	19 – 23 Jan, 09	5 days	8,427
14	Customer Management and Information Systems in Power Sector	Provisions of Electricity Act 2003, Quality of Power Supply, Reliability Indices, Citizens Charter, Customer Relations, Customer Services, Customer Grievances handling, Customer Satisfaction – Survey and analysis, Delighting the Customer, Call Centers, Trouble Call Management.	3 – 6 Feb, 09	4 days	6,742

B. DRUM PROGRAMMES
(Under USAID through MOP/PFC)

Sl. No.	Name of the Programme	Focus on	Dates/ Duration
1	Best Practices in Distribution Loss Reduction	Concepts and Principles of Distribution Loss, Energy Audit and Energy Accounting, Best Practices in Technical Loss Reduction, Emerging Technologies for Loss Reduction, Distribution System Planning, Billing and Collection , Investment Analysis to Reduce ATC Losses, Cost Benefit Analysis & CRM	5 days
2	Best Practices in Distribution System Operation & Maintenance	O&M of Substation, Distribution Transformers, Design and Maintenance of Distribution Lines and Cables, Safety Procedures, Accident Prevention and Disaster Management, O&M of Distribution Metering and Billing System, Energy Audit and Energy Accounting & Distribution Automation.	5 days
3	Disaster Management, Electrical Safety Procedures and Accident Prevention	Disaster warning systems, Response management and mitigation, financial impact on disaster, electrical safety procedures, accident prevention techniques and reporting procedures, earthing practices, power grid collapse, fire-fighting techniques and first-aid practice.	5 days
4	Rural Power Supply and Participatory Models	Issues in Rural Power Supply, Power Distribution Projects and Technologies, Preparation of Project Report, Participatory Models in Rural Areas, Franchisee by business model, Operational issues of Distributional Management through franchisee, Project Appraisal by utility/franchisee & CRM	5 days
5	Change Management in Power Distribution	Change Management ,Change requirements in Reducing Technical Losses, Change requirement to Enhance Commercial and Financial Performance, Change requirement to Enhance Customer Satisfaction, Excellence through Attitude, Creative Intelligence & Balance Score Card Application	5 days
6	Customer Satisfaction, Communications and Outreach	Role of ERC in Customer Care, Customer Care Practices, Customer Indexing, Technology Intervention to Improve Customer Care Practices, Customer Indexing, CRM, Functions of Call Centres, Communications and Outreach, Building Customer Confidence, Customer Satisfaction Survey & Analysis	5 days
7	Distribution Business Management - IT Based Solutions	IT Systems for Distribution Network, Energy Conservation, O & M of Distribution Networks, Financial Management and Revenue Realization, Customer Services and IT interface, Metering, Billing and Collection, IT applications in Project Management & Customer Information System	5 days
8	GIS based Distribution System Planning, Analysis and Asset Management	GIS: The concept and design, General appraisal methods, System requirements and software, Asset management: Application / benefits, Spatial load forecasting, Distribution system analysis, Distribution System planning, Customer care and supply reliability.	5 days

9	Distribution Efficiency and Demand Side Management	Fundamentals of DSM Applications, DSM – Tools and Techniques, Diagnosis & Improvement of Distribution System to Reduce Losses, Financial Analysis of Investment for Distribution Improvement and DSM, Implementation and Post-implementation issues in DSM application & Regulation and Implementation	3 days
10	Financial Management of Distribution Business	Accounting Principles & Practices, Understanding of Financial Statements, Management Control Systems, Differences between Financial Accounting & Regular Accounting, Budgeting, Cost Accounting, Regulatory Accounting, Multi-year Tariff, Benchmarking and Best practices in Financial Management & Tools for Financial Management	3 days
11	Communication Skills, Employees Motivation and Morale Development	Enhancing Corporate Culture, Communicati8on with Stake holders and customers, Communication methodology and strategies, Conflict management, Inter-personal dynamics, Morale development, Motivation and goal-setting.	3 days
12	Project Development, DPR Preparation, Appraisal and Schemes Implementation	Project Development, DPR preparation and its components, Project Implementation – Turnkey, Unit Rate Contract, Time Management Tools, Project Evaluation, Advancement in distribution Network and Case Studies.	3 days
13	Performance Benchmarking and Quality of Supply and Service	Concepts and Identifications of Key performance indicators (KPI), Management and monitoring of KPIs, Quality of supply and service, Role of ERCs and KPI, Measuring customer satisfaction and International experience.	3 days
14	Best Practices in Agriculture Pumping Systems and Rural DSM	DSM Tools and Techniques, Water and Energy Nexus, Fundamentals of Agricultural Pumping Systems, Factors effecting Pump Performance and Deficiencies in exiting Pumping Systems, Methods of Rectification of Pump sets and its economics, Capacitors and their use and Investment analysis.	3 days
15	Regulation of Distribution Business	Distribution reforms – Issues, Objectives and challenges, Social, economic and legal rationale for regulation, regulatory approaches, regulatory functions, design of regulatory institution and its responsibilities, governance in distribution regulation, distribution codes and quality service.	3 days
16	Rural Distribution Franchisee	National Electricity Plan, Electricity Act 2003, Relevance of Franchisee, Different models of franchisee, Business plans, Legal aspects, Case study presentations.	3 days

C. **INTERNATIONAL TRAINING PROGRAMMES**
(Sponsored by Ministry of External Affairs under ITEC/SCAAP Programme)

Sl. No.	Name of the Programme	Focus on	Date	Duration
1	Modern Practices in Generation & Transmission Systems	Load forecasting, Generation planning, LoLP (loss of load probability and USE (un-served energy), Power system studies, Transmission System planning, Load flow studies, Preparation of Detailed Project Reports for generation and transmission schemes & Field visits to generating stations	18.8.2008 to 12.9.2008	4 weeks
2	Latest Trends in Planning, Design and Erection of EHV Sub-Stations	Power system studies, Design of Sub-Station - Bus bar arrangement, Insulation coordination, Design parameters of switchyard equipment, Soil analysis and foundation design, auxiliary structures, earth mat and lightning protection, Substation protection, LT AC and DC systems, Station lighting system & Civil aspects, Communication, Testing and Commissioning, Operation & Maintenance of EHV Sub-Stations & Field visits	18.8.2008 to 12.9.2008	4 weeks
3	Power Transmission & Distribution Management Technologies	Power scenario in India, Planning and designing of distribution system, Construction, Operation & Maintenance of Distribution System, Innovative and Cost Effective Technologies, Transmission System Planning, Maintenance of EHV-AC and HVDC Substation, Metering Technologies, DSM Techniques and Methodology, SCADA System, Energy Audit and Accounting, IT for Transmission and Distribution Management – MIS, CIS, GIS & GPS, Customer Management & Clean Development Mechanism	13.10.2008 to 5.12.2008	8 weeks
4	Planning and Management of Power Sector in Developing Countries	Power Scenario in India, Regulatory Mechanisms, Reforms in Power Sector, Institutional Framework for Financing Power Sector, Demand Forecast & Analysis, System Studies & Generation and Transmission System Planning, O&M, R&M, RLA of existing plants, Financial Closure of Power Projects, Generation through Renewable Energy Sources, Maintenance of EHV-AC and HVDC Substation, Communication Requirement & SCADA, Distribution Systems Planning, Distribution Automation, Switched Capacitors, Metering Technologies, Energy Audit & Accounting, HVDS, CRM, IT Applications in Power Sector, Demand Side & Supply Side Management Techniques, Power Sector Accounting, Cost of Capital & Capital Budgeting, Project Appraisal & Management & CDMs	13.10.2008 to 5.12.2008	8 weeks

5	Power Distribution Project Financing & Accounting Systems	Power Scenario in India, Regulatory mechanism, Institutional framework for financing the power sector, formulation, execution, monitoring and evaluation of power distribution projects, DPR preparation, Investment appraisal, Cost of capital & Capital Budgeting, Financial closure of the projects, Legal framework for Accounting and Financial reporting, ESAAR & GAAP, Accounting standards and Reporting on corporate governance, Consolidation of financial statements, Balance sheet analysis and profit & loss account, Company laws, PERT & CPM	19.1.2009 to 13.3.2009	8 weeks
6	Decentralised Distributed Generation and Rural Power Distribution Management	Power scenario in India, Regulatory Mechanisms, Financing of Rural Electrification, Distributed Generation - Hybrid Mode, Diesel, Bio-gas and other Renewable sources, Design & Planning of Rural Distribution Network, Load Forecasting & Load Management, Energy Audit & Accounting Systems, Metering Technologies, DSM Techniques and Methodology, Switched capacitors & Reactive Power Compensation, Quality of Service & Supply, Rural Power Distribution Management by Franchisees, Participatory Models for Rural Power Supply, Operation & Maintenance of Distribution Systems, Best Construction Practices, Safety Measures and Prevention of Electrical Accidents, SCADA & Distribution Automation, IT Applications in Power Sector, Unmanned Sub-station & CDMs	19.1.2009 to 13.3.2009	8 weeks

D. IN-HOUSE TRAINING PROGRAMMES
(FOR THE EMPLOYEES OF REC)

Sl. No.	Name of the Programme	Date	Duration
1.	Computer Applications	23 – 27 Jun 08	5 days
2.	General Management (including Statutory Acts)	21 – 25 Jul 08	5 days
3.	Record Management & MIS	24 - 28 Nov 08	5 days
4.	Secretaries – Office Procedure	15 – 19 Dec 08	5 days
5.	Project Formulation, Appraisal & Monitoring and Processing of RGGVY, Generation and T&D Schemes	5 - 9 Jan 09	5 days