



सत्यमेव जयते

Ministry of Power
Government of India
www.powermin.nic.in



NATIONAL POWER TRAINING INSTITUTE

(*Ministry of Power, Government of India*)

NPTI Corporate Office, NPTI Complex, Sector-33, Faridabad – 121 003, Haryana, India

TRAINING CALENDAR प्रशिक्षण कैलेंडर

2023 - 24



TRAINING CALENDAR

प्रशिक्षण कैलेंडर

2023 - 24

OUR SOURCE OF INSPIRATION



"Energy sector plays a big role in the progress of the country and contributes to both ease of living and ease of doing business"

Sh. Narendra Modi
Hon'ble Prime Minister of India

OUR SOURCE OF VISION



Sh. R. K. Singh
**Hon'ble Cabinet Minister of Power and
New & Renewable Energy**
Govt. of India

OUR SOURCE OF MOTIVATION



Sh. Krishan Pal
**Hon'ble Minister of State in the Ministry of Power and
Minister of State in the Ministry of Heavy Industries**
Govt. of India



Sh. Alok Kumar,
Secretary, Ministry of Power
Chairman, Governing Council



Sh. Ghanshyam Prasad,
Chairperson, CEA
Vice Chairman, Governing Council



Sh. Ashish Upadhyaya,
Special Secretary & Financial Adviser,
Ministry of Power, Permanent Member



Sh. Ajay Tewari,
Additional Secretary,
Ministry of Power, Permanent Member



Sh. Jithesh John,
Economic Adviser,
Ministry of Power, Permanent Member



Dr. Tripta Thakur,
Director General, NPTI
Member Secretary, Governing Council

Governing Council

Our Attitude



We constantly strive to motivate every power professional to tap his unique human endowments, consciousness, imagination and willpower. Together we make a difference

Our Vision

To be the Global Centre of Excellence for Training and Skill Development in Power & Energy Sectors



Our Mission



Enhancing human and organizational excellence in Power and Energy sectors by blending frontier clean energy technologies to achieve economy and energy security

Our Values

We value our drive and commitment to provide cutting edge technologies and top quality service to our clients, sharing our knowledge and caring for their needs



FOREWORD



National Power Training Institute (NPTI) is an Apex Body for training Power Sector professionals in upcoming areas and is servicing the Nation for the last five decades. It has trained over 4,50,000 Power Professionals in regular programs and is providing dedicated training in the areas of Power and Renewable Energy Sector. The responsibility for training and capacity building of state DISCOM employees under the Revamped Distribution Sector Scheme (RDSS) has been given to NPTI by the Ministry of Power, Govt. of India. NPTI has geared up to support the implementation of smart distribution infrastructure and optimal and efficient operation of DISCOMs under RDSS. Another important role assigned to NPTI is to conduct training & certification courses for different levels of cyber security in power sector areas to all power sector professionals. As part of the vision of the Ministry of Power to impart a 360-degree training to the budding professionals in power sector, NPTI is also conducting 3-week Foundation program aimed at creating a pool of highly skilled professionals familiar with every aspect of the power sector. To keep the participants of various courses abreast with latest technologies, NPTI has been continuously upgrading its infrastructural / training facilities.

NPTI is catering to the needs of trained manpower to strengthen the Generation, Transmission & Distribution infrastructure. Furthermore, the new emphasis on renewable energy addition and system integration issues are being prioritized for capacity building. NPTI training Institutes situated at different locations of the country are conducting on-site programs in addition to on-line & offline training. NPTI has also been organizing training cum awareness under the "Mission Samarth" program of the Ministry of Power for Farmers, Pellet Manufacturers and Thermal Power Plant Officials to utilize the farm stubble in the formation of biomass pellets to be used in coal fired thermal powerplants. The course curriculum and training programs are reviewed based on the suggestions from Advisory Board members, which has been constituted by all institutes and based on continuous feedback from the participants to meet the expectations of the trainees as well as the requirement of Power Sector as a whole. Publications in the areas related to Operation & Maintenance of Thermal, Hydro, Gas Power Plants, Renewable Energy and Transmission & Distribution systems etc. are being provided to the trainees and also offered to the other client organizations.

A handwritten signature in blue ink, appearing to read "R. T. Thakur".

Dr. Tripta Thakur
Director General, NPTI, Ministry of Power, Govt. of India

NPTI

LOCATIONS



NPTI Badarpur, New Delhi



NPTI Alappuzha, Kerala



NPTI Guwahati, Assam



NPTI Nangal, Punjab



NPTI PSTI, Bengaluru



NPTI Shivpuri, Madhya Pradesh



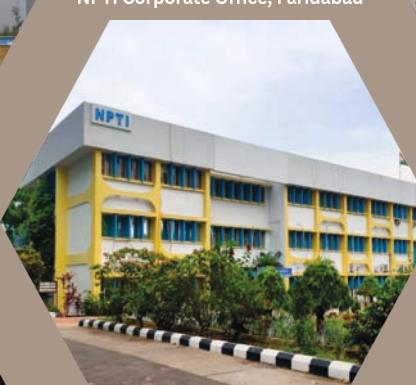
NPTI Corporate Office, Faridabad



NPTI Nagpur, Maharashtra



NPTI Neyveli, Tamil Nadu



NPTI Durgapur, West Bengal



NPTI HLTC, Bengaluru

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ACTIVITIES @ A GLANCE



ABOUT NPTI

The National Power Training Institute (NPTI), an ISO 9001:2015 and ISO 14001:2015 organization under the Ministry of Power, Govt. of India, is the National Apex body for Training and Human Resources Development in the Power Sector and the world's leading integrated Power Training Institute, with its Corporate Office at Faridabad. NPTI operates on a pan-India basis through its Eleven institutes. Apart from highly skilled and competent trainers and State-of-the-art laboratories, NPTI has Hi-tech real time simulators of various power plant capacities at its institutes, which include thermal (Supercritical, Subcritical), multifunctional, CCGT, Hydro, SCADA and Smart Grid Operations and Dispatcher Training Simulator. Having trained more than 4,50,000 Power Professionals in various training programs over the last 5 decades, NPTI is the only institute of its kind in the world with such a wide geographical spread, covering a wide gamut of training programs in Renewable Energy and Power Sector.

NPTI operates on an all-India basis through its 11 institutes with a manpower strength of 149, including 78 officers. The region-wise institute list is given below:

Northern Region

1. NPTI Corporate Office, Faridabad
2. NPTI (Northern Region) Badarpur, New Delhi
3. NPTI (Hydro Power Training Centre), Nangal

Southern Region

4. NPTI (Power System Training Institute), Bengaluru
5. NPTI (Hot Line Training Centre), Bengaluru
6. NPTI (Southern Region), Neyveli
7. NPTI, Alappuzha

Eastern & North Eastern Region

8. NPTI (Eastern Region), Durgapur
9. NPTI (North Eastern Region), Guwahati

Western Region

10. NPTI (Western Region), Nagpur
11. NPTI, Shivpuri

MAIN OBJECTIVES

- To function as a National Organization for training in the fields of (a) Operation and Maintenance of Power Plants, and (b) All other aspects of Electrical Energy Systems including transmission, sub-transmission and distribution.
- To act as the Apex body for initiating and coordinating training programs in the power sector of the country.
- To establish and run training institutes for Engineers, Operators, Technicians and other personnel of the Power Sector.

SUBSIDIARY OBJECTIVES

- To identify and assess the training needs of the Power Sector in the Country.
- To coordinate training activities for various utilities and other technical Institutions and supplement them with customized training programs.
- To establish standard norms regarding qualifications and training for personnel of various levels.
- To serve as a National Certification Authority for the purpose of Certification of competence and/or participation in order to ensure availability of properly trained personnel to man the Electricity Supply Industry.
- To initiate, conduct and coordinate R&D studies in the field of Operation, Maintenance and Management of Power Generation and Transmission System and to prepare and conduct specialized training programs.
- To establish, maintain and manage laboratories, workshops, experimental transmission lines, sub-station and other facilities required for maintenance.
- To collect information and maintain documentation in the field of electricity generation and distribution.
- To collect, prepare, edit, print, and publish materials, papers, periodicals, and reports in furtherance of the objectives of the society.
- To organise seminars and workshops.
- To enter into agreements with any enterprise or institution or person and provide funds to them for specific training programs, demonstrations, assignments, preparation of training material or technical guidance.



Dr. Tripta Thakur, Director General, NPTI formally met Shri R. K. Singh, Hon'ble Cabinet Minister of Power and New & Renewable Energy and discussed NPTI's role in capacity building and training for adoption of new technologies for power sector professionals.

TRAINING AT A GLANCE

NPTI conducts long-term, medium-term and short-term Training Programs for Engineers and Supervisors on various technical and managerial topics pertaining to the Renewable Energy and Power Sector in the areas of Thermal, Hydro, Renewable, Transmission and Distribution, Management, Regulatory Affairs etc. in all the Institutes. The training programs conducted by NPTI are either regular or customized to suit the training needs of the client organizations. These programs are being organized round the year along with Workshops and Seminars on latest developments in the Sector.

To achieve the objective of providing energy sector training, the training methodology adopted creates a step-by-step environment for the all-round development of skills and knowledge of the participants.

- Classroom lectures for imparting formal, theoretical and technical knowledge
- Case studies/Group discussions
- Self-learning techniques, like computer based self-learning training packages and e-learning
- Practical hands-on training in corrective maintenance methods and techniques
- Simulation techniques and on-job training in Power Stations/Power Systems
- Industry Interfaced Programs and Placement of Students

Industry Interfaced Programs and Placement of Students

NPTI conducts the following industry interfaced programs with the objective to create a pool of committed and competent professionals equipped with appropriate technical skills to steer the Indian Power Sector.

1. One Year Post Graduate Diploma Course in Power Plant Engineering
2. One Year Post Graduate Diploma Course in Renewable Energy and Grid Interface Technologies
3. One Year Post Graduate Diploma Course in Smart Grid Technologies
4. One Year Post Graduate Diploma Course in Power System Operation
5. One Year Post Graduate Diploma Course in Sub-Transmission & Distribution system
6. Nine Months Post Graduate Diploma Course in Hydro Power Plant Engineering
7. Six Months Post Graduate Diploma Course in Transmission and Distribution System for Engineers
8. One Year Post Diploma Course in Thermal Power Plant Engineering
9. Six Months Post Diploma Course in Hydro Power Plant Engineering
10. Six Months Post Diploma Course in Renewable Energy including Solar Technology
11. Six Months part-time Post Graduate Diploma in Cyber Security (Online)
12. Two Year MBA (with specialization in Power Management & Sustainability/Data Science and Data Analytics/Cyber Security and Cloud)

NPTI also offers Internship programs on a pan-India basis for students pursuing B.Tech/B.E/ B.Sc (Engineering)/Diploma (Engineering) degrees. Students can earn valid Credits through these internship programs. In the year 2022-23, more than 500 students from various Engineering and Polytechnic colleges have undergone their internships from institutes of NPTI. Interested candidates can contact the concerned Head of Institute (HoI) for program details.

Our students of Post Graduate Diploma Courses (PGDC) and Post Diploma Courses (PDC) have been recruited by reputed companies. For the list of recruiter companies, kindly refer NPTI Clientele and Recruiters.

Induction Training

NPTI has been imparting induction training to fresh Graduate Engineers/Executives from various organizations of Power Sector such as CEA, GRID-India, NHPC, DVC, MPPGCL, RRUUVNL, MSETCL, etc. For further details, kindly refer NPTI Clientele and Recruiters.

On-Job Training

On-job training is an essential supplement to formal training which provides trainees an understanding of the functions through involvement with real work situations. Special stress is laid on acquisition of required skills for undertaking specific responsibilities in a particular area of work. On-job experience simplifies and consolidates knowledge in a particular sphere. Specialized workbooks have also been designed according to the training programs.

Online Training Courses

NPTI conducts online training programs on all aspects of Renewable Energy and Power sector. After the COVID-19 outbreak many short-term and medium-term training programs are conducted in online and offline modes.

NPTI is recognized as the Cadre Training Institute for Central Power Engineering Services. NPTI is functioning as the Apex Cadre Training Institute for the engineers/officers of Central Power Engineering Services.

CUSTOMIZED TRAINING PROGRAMS

Training program for Financial Institutions on Energy Efficiency Financing

National Power Training Institute (NPTI) under the aegis of the Bureau of Energy Efficiency (BEE) organized "Training Program for Financial Institutions on Energy Efficiency Financing" in six different batches at different NPTI locations across India. The objective of the training program is to build greater knowledge and confidence within the financial sector on Energy Efficiency financing. Total 144 participants from various Banks, NBFC's etc. participated in this workshop.

Training Program for Forum of Regulators

National Power Training Institute, Faridabad organizes a two days residential training program on "Protection of Consumer Interest" for the ombudsman and officials from the Consumer Grievance Redressal Forums, Regulatory commissions of the various states.

This program is conducted every year under the aegis of Forum Of Regulators. The objective of the program is to discuss various regulations, laws, consumer issues and case studies pertaining to the power sector.

Training Program for Distribution Linemen

NPTI has conducted "**Urja Sarathi**", "**Uttam Urja Sarathi**", "**Urja Sarathi 2.0**" Training Programs for the linemen of BSES Rajdhani Power Ltd., Delhi. Around 2500 Distribution Linemen were comprehensively trained and certified in the areas of basics of Electricity, Poles, Pole erection, mounting, stringing, clearances, sub-station equipment such as DTs, Circuit Breakers, earthing with their safe operating procedures and accent on Safety. The feedback from BSES is that this

training has immensely benefited the Distribution Linemen with zero number of accident and casualty for the last one year.



Hot Line maintenance activities in transmission line

Capacity Building Training Program

NPTI (Eastern Region) Durgapur has bagged the work order and signed agreement with Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA) to organize Capacity Building Program on "Energy Conservation" and "Formation of Energy Club & Energy Survey" in 380 selected Kasturba Gandhi Balika Vidyalaya (Residential Girls schools) of Uttar Pradesh for the first phase and 365 Residential Girls Schools in second phase.



NPTI Durgapur conducted capacity building programs on "Energy Efficiency" and assisted in the formation of Energy Club & conducted Energy Survey in 380 selected Kasturba Gandhi Balika Vidyalaya (Residential Girls schools) in Uttar Pradesh

Power System Operation Training and Certification

NPTI has been conducting Certification of Power System Operators since 2011. Training courses conducted at our institutes at Badarpur, Durgapur, Faridabad, Bengaluru, Guwahati and Alappuzha are designed with necessary inputs which enables the trainees to take up the various System Operation Certification Examinations.

Basic level on-line System Operator Certification

A total of 2695 appeared for the Basic Level Certification Examinations

Specialist level courses on "Regulatory Framework in Power Sector", "Power System Reliability", "Renewable Energy Sources and Grid Integration", "Power System Logistics" and "Power Market Specialist" are being conducted at Corporate Office, Faridabad and PSTI, Bengaluru.

Specialist Level Online System Operator Certification

In the "**Regulatory Framework in Power Sector**" 429 System Operators appeared for the certification examination. In "**Power System Reliability**" and "**Power System Logistics**" 198 and 44 System Operators, respectively have appeared for the examination.

Simulator Training



Multi-Function Smart Grid Simulator at NPTI Faridabad



800MW Thermal Power Plant Simulator at NPTI Faridabad

Simulators at various NPTI locations are housed in existing Simulator Training Centres along with classrooms and other infrastructural amenities to provide full-fledged training programs. The simulator design includes equipment, instrumentation and controls that enable the operator to function in all modules with optimal specified operation conditions including normal, abnormal or emergency operating conditions. The protections, interlocks, logics and controls of the real plant are incorporated in the simulation system.

PROGRAMS OF NATIONAL IMPORTANCE

Skill Development Training

NPTI has been empaneled as a Government agency with the Ministry of Rural Development (MoRD) for conducting National Skills Qualification Framework (NSQF) aligned training program on all India basis for Power Sector & Renewable Energy Sector vide notification no. 5/2019, dated: 26.02.2019 and the MoU has been signed with MoRD on 04.04.2019. Vide Gazette notification No. 449, F. 43001/02/2013-NSDA, dated 05.12.2019 of Ministry of Skill Development and Entrepreneurship & 23rd meeting of NSQC held on 22.08.2019, NPTI has been recognized as an Assessment & Certification body for 60 Qualifications in Power Sector and Renewable Energy Sector.



MoU signing with MoRD



Solar PV Installation training program at NPTI Durgapur

Foundation Program

Power sector is one among the most critical infrastructures which is crucial for the sustained economic growth and welfare of a nation. The Ministry of Power has made significant efforts over the past few years to turn India into a power-surplus country from a power-deficient one, by establishing a single national grid, fortifying the distribution network, and achieving universal household electrification. Huge investment has been made by the Ministry over the years through multiple schemes and initiatives. One such initiative taken up by the Ministry is to create a pool of skilled power professionals.

In this line, Foundation Program, a three-week course, has been designed to train the power sector professionals so that they have interdisciplinary understanding of Planning, Functioning & Operation of Generation, Transmission & Distribution System, Renewable Energy, Energy Transition, Carbon Neutrality etc. This course is being conducted through classroom mode with active learning manner along with industry-based examples of different technologies including case studies used in the power industry to have a 360-degree view of the entire power sector. It is one of a kind training program that not only covers the entire spectrum of power sector but also incorporates in its curriculum, activities like Yoga, sports, cultural etc. for a holistic personality development of individuals. Through Hands-on-Practice, professionals would be now confident to operate the plant, process & system in real time.



Inauguration of first batch of Foundation Program for fresh recruits from various CPSUs/CPSEs under the Ministry of Power at GNEC-IIITR, Greater Noida.



Revamped Distribution Sector Scheme (RDSS)

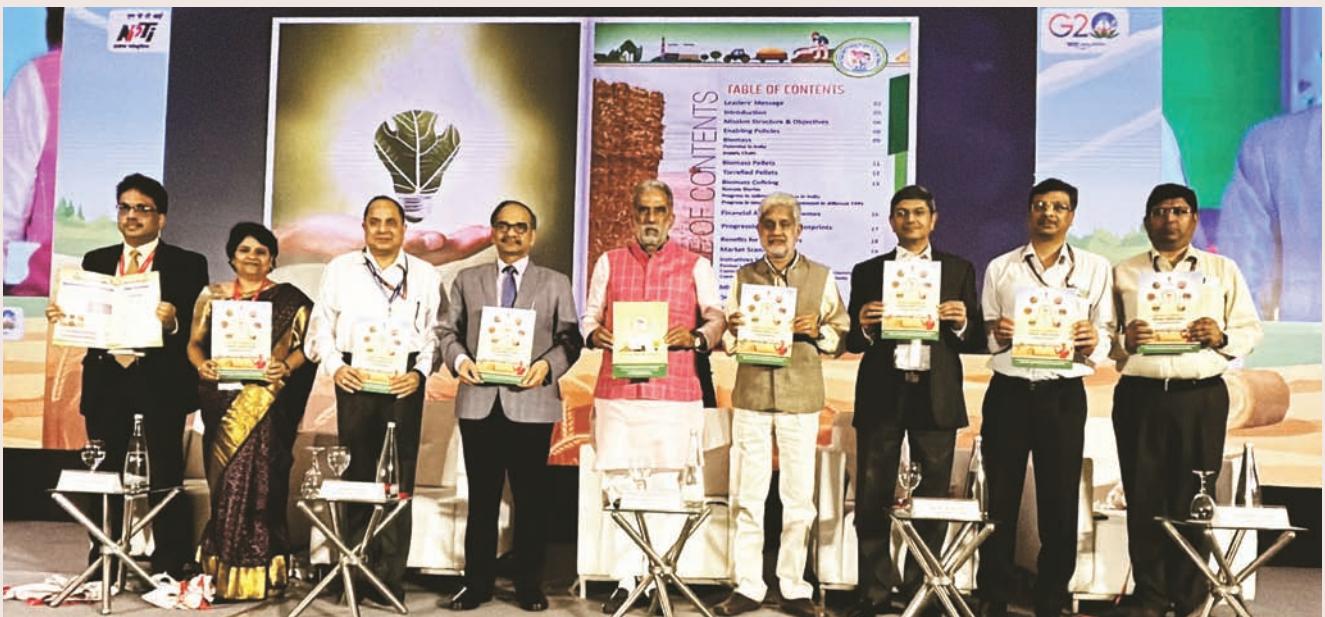
Presently, large scale reforms are required in the Distribution Sector and schemes that would enable the DISCOMs to reduce losses to make them financially sustainable and operationally efficient. It is

with this aim and the Government of India's commitment for providing 24x7 uninterrupted, quality, reliable and affordable power supply, the Revamped Reforms-based and Results-linked Distribution Sector Scheme (RDSS) has been formulated by the Ministry of Power for supporting DISCOMs to undertake reforms and improve performance in a time bound manner. The Revamped Reforms-based and Results-linked Distribution Sector Scheme seeks to improve the operational efficiencies and financial sustainability, by providing financial assistance to DISCOMs for strengthening the supply infrastructure based on meeting pre-qualifying criteria and achieving basic minimum benchmarks in reforms. NPTI has identified five training programs under the scheme covering Smart Metering, AMI, SCADA, etc. One part of the training focuses on the following: up-gradation of human skills; process improvements; augmentation of Smart distribution infrastructure including Smart Meter & SCADA System, Training & capacity building for personnel involved in execution of the Scheme at field level, awards and recognitions etc. Training & capacity building on technical matters, advanced technology intervention areas, new business processes, etc. The training programs are being conducted in DISCOM's all across the country.



Inauguration of Job Role-5 training program at NPTI Corporate Office in the august presence of Sh. Saurav Kumar Shah, ED, PFC and Dr. Manju Mam, Principal Director, NPTI Faridabad

Mission SAMARTH



National Conference on Biomass “3P -Pellet to Power to Prosperity”
to promote use of Biomass Pellets in thermal power generation.

In order to address the issue of air pollution due to farm stubble burning and to reduce carbon footprints from thermal power generation, the Ministry of Power has decided to set up a National Mission on use of Biomass in coal based thermal power plants. This would further support the energy transition in the country and our targets to move towards cleaner energy sources. The Mission is taking steps for development of the biomass supply chain, sensitizing stakeholders and encouraging budding entrepreneurs.

NPTI has conducted 29 training programs for Farmers, Pellet manufacturers and Thermal Power Plant Officials from October-2021 to October-2022 and trained 3,180 personnel under National Mission on use of Biomass in Thermal Power Plants (SAMARTH).

Cyber Security

Cyber intrusion attempts and cyber-attacks in any critical sector are carried out with a malicious intent. In Power Sector, it's either to compromise the Power Supply System or to render the grid operation insecure. Any compromise may result in mal-operations of equipment, equipment damages or even in a cascading grid brownout/blackout.

As per Article-8 of the CEA (Cyber Security in Power Sector) Guidelines, 2021, National Power Training Institute (NPTI) in consultation with CEA has identified and designed domain specific courses on Cyber Security for different target groups in Power Industry. NPTI is organizing classroom training programs along with Hands-On Training programs for personnel having authorized cyber or physical access (unescorted or escorted) to their critical systems.

All personnel engaged in O&M of IT & OT systems shall mandatorily undergo courses on cyber security of Power Sector from NPTI.

Mid - Career Training Program for IAS Officers

The Phase III program, introduced by the Government of India is the first in the series of the Mid-Career Training Program for IAS Officers. It is the first major training program which Officer participants attend after their induction level training. It marks a key inflection point when an IAS officer makes a transition from field administration to higher level responsibilities as the Head of Department at the State level, and Deputy Secretary / Director in the Government of India with the mandate to ensure qualitative improvement in delivery of services in the larger context.

NPTI conducted the "ENERGY" module of one week duration, as a part of the four -week training program. A wide range of topics covering generation, transmission and distribution sectors were presented to the participants. New and emerging technologies in the power sector were also introduced.



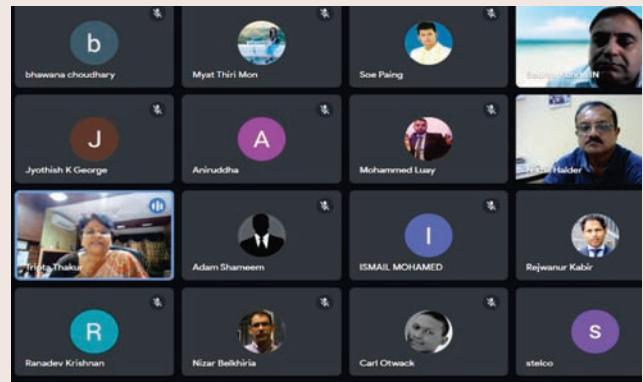
NPTI conducted "Energy" module in Mid Career Phase-III Training Program for IAS officers at LBSNAA Mussoorie in December 2023.

INTERNATIONAL TRAINING PROGRAMS

Professionals from various countries like Afghanistan, Bangladesh, Belarus, Bhutan, Cambodia, Ecuador, Ethiopia, Iraq, Kenya, Libya, Malaysia, Mexico, Myanmar, Nepal, Nigeria, Oman, Philippines, South America, Sri Lanka, Sudan, Syria, UAE, Zambia, Zimbabwe etc. have also undergone training at NPTI's various training Institutes.

e-ITEC Program, Ministry of External Affairs, Govt. of India

NPTI conducts training programs through ITEC, MEA, Govt. of India for the countries throughout the world i.e. SAARC, African Countries etc. This training program is also conducted on online platform.



Online "e-ITEC" program

Training Program for BIFPCL, Bangladesh

NPTI conducted Training Program on Thermal Power Plant (Sub and Supercritical Technology) for BIFPCL Engineers Executive Trainees (BEETs) Bangladesh India Friendship Power Company Ltd. The Module covered a mix of classroom sessions, technical visits and practical training on supercritical simulator.

The trainees experienced industrial exposure from BHEL Haridwar, CLP Jhajjar, NTPC Dadri, etc. as well as learned manufacturing process of thermal power plants. The participants also visited PAL, Manesar. As a part of their India tour, they visited different historical places like Agra, Ajmer, Jaipur, Pushkar and Mussoorie.



Training program for BIFPCL engineers

UPCOMING INITIATIVES

Learning Management System (LMS)

LMS allows trainees to access study material from anywhere and at any time as centralised information aggregated in one location, as well as online and blended learning solutions that promote and enhance traditional educational methods.

LMS can also save organization's time and money as it allows easy administration of information in a user friendly, web-based environment. It can also automate administration and tracking and reporting of training events. Initially NPTI is planning to launch courses on Basic Course on Cyber Security, Specialized Course on Cyber Security, SCADA & Substation Automation, and Regulatory Issues in Power Sector on the LMS which later on will have more courses on newer technologies in the Power Sector.

National SCADA Resource Centre (NSRC)

The Ministry of Power (MoP) launched, Distribution Sector Scheme (RDSS) in July 2021. Apart from its twin objectives related to distribution infrastructure and institutional capacity building for DISCOMS, the scheme also envisages the establishment of SCADA/DMS in 100 towns and basic SCADA in 3,875 towns. Accordingly, a state-of-the-art National SCADA Resource Centre (N.S.R.C) is being established at NPTI in association with Power Finance Corporation Limited (PFC) to provide hands-on training on vendor-neutral platforms on upcoming distribution SCADA in various DISCOMS across India. NSRC will do the handholding of DISCOMS for the adoption of new technologies and it will also serve as a platform for knowledge exchange and peer-to-peer learning.



Inauguration of the Learning Management System and laying of the foundation stone for the National SCADA Resource Center by Shri Krishan Pal Gurjar, Minister of State for Power and Heavy Industries

Post Graduate Diploma in Cyber Security (PGDCS)

As cyberattacks are growing in volume and complexity, preparing young professionals to protect systems, networks and programs from digital attacks has become all the more important.

National Power Training Institute along with Whizhack is starting a Post Graduate Diploma Course which is of 6 months duration. 480 hours of course content with access to virtual labs with Cyber-attack and defense simulated projects has been prepared. The course is well designed and experienced faculty will address the participants in live classes scheduled during the weekends.

INFRASTRUCTURAL FACILITIES

The Institutes offer world class infrastructural facilities like, excellent simulators, relevant laboratories and workshops, computer labs, well stocked libraries with national, international journals and reference materials, fully air-conditioned classrooms, conference halls and boardrooms with video conferencing facility, modern classrooms equipped with latest teaching aids, wi-fi enabled campus, separate hostel for students, executives and international trainees, auditorium, gymnasiums and playgrounds.

Hot Line Training Centre

A facility has been created at NPTI's Hot Line Training Centre (HLTC), Bengaluru for Live Line Maintenance of Transmission Lines upto 400 kV (first of its kind in Asia) which enables the trained personnel to attend the maintenance requirements without power interruptions. Facility for water washing of sub-station equipment is also available.



Hot line maintenance activities in EHV electrical sub-station and transmission line

Models

All the Institutes have a good number of static and dynamic models relating to various main systems. Equipment of Thermal Power Stations, Hydro Power Stations and Power Systems and models for demonstration in diverse areas of trainings conducted at NPTI, are also available.



Technical Models

Laboratories/Workshop

The institutes have well equipped laboratories and workshops with wide ranging facilities for imparting training to all cadres including Technicians, Operators and Engineers, in various aspects

of Power Generation, Transmission Distribution and Operation. Some of the areas where expertise has been built:

- Electrical laboratories with facilities for testing of relays, Control and Instrumentation Laboratories with facilities for testing, calibration and repairs of different types of process control instruments.
- Maintenance workshops for Valves, Bearings & Shaft alignment, Pumps, Motors etc.
- Power System Studies Laboratories are equipped with Transmission and Distribution System Software where studies such as load flow analysis, short circuit studies, transient stability studies, relay coordination studies, optimal capacitor placement, network reduction and optimal separation point can be conducted.



Technical Kits for demonstration

Classrooms

All the institutes have modern classrooms equipped with latest teaching aids and audio-visual aids, required for efficient running of training programs. Video conferencing facility is available in all the institutes.

Library

NPTI Corporate Centre library has a large collection of books and video packages on power generation, transmission and distribution technologies, various branches of engineering, science, industrial relations, management etc. It subscribes to a number of Indian and foreign technical journals and periodicals.

All regional institutes have modern libraries stocking a large collection of books and multimedia films on Power Station Technology, Mechanical Engineering, Electrical Engineering, Power Plant, Chemistry, Control and Instrumentation, Electronics, Computers, Management etc.



Library and Classroom facilities

Auditorium, Conference Hall, Residential Quarters

All Institutes of NPTI are situated in picturesque landscapes. They have auditorium/conference hall and classrooms with most modern amenities for conducting the training programs, conferences, seminars and workshops. All the campuses have residential quarters for the employees, guesthouse, hostels, sports facilities, gymnasium and canteen. The campuses and hostels are Wi-Fi enabled and provide a hygienic and homely atmosphere to the trainees.



Auditorium, Conference Hall and Hostel Rooms

Hostel Facilities

Residential Services are available for Regular Trainees, Executives and Foreign National in all the Institutes. Well-furnished hostels for Executive and Trainees with modern lodging and boarding facilities are available in all Institutes. NPTI Corporate Office, Faridabad can accommodate about 550 trainees. An international hostel with 25 double bedded rooms is available at Faridabad.

Well-furnished hostels are also available at each of the regional institute of NPTI where modern and hygienic lodging and boarding facilities are available. Those desirous of availing the hostel facilities will have to intimate in advance to the Principal Director/Director and obtain confirmation for the same. In case a participant does not stay in the hostel, he has to make his own arrangements to reach the Institute. Recreation and indoor sports facilities like Table Tennis, Badminton, Carom, Chess etc. are available for trainees in Hostel, creating a congenial atmosphere of a Home away from Home. The hostel accommodation is provided to the trainees only for the period of training course.



Hostels at NPTI, Faridabad

Sports Facilities and Medical Services

A well-equipped gym, playground and courts of badminton, volleyball, basketball etc. are also located within the NPTI campus. Services of well qualified doctors are available on part-time basis in each of the Institute Complex.



Sports and Gym facilities

FACULTY MEMBERS

NPTI's faculty consists of highly qualified, award winning, scholarly and experienced men and women who are leaders in their respective fields. Our faculty members come from across the country, sharing their perspective, wealth of knowledge, experience, qualification and expertise with students and working Professionals. Faculty members at NPTI have successfully developed numerous industry responsive courses to ensure trainees bring out the best in them and excel in their careers. Details of the faculty members are available on NPTI's website www.npti.gov.in.

HOW TO APPLY

NPTI regularly organizes Training programs/Seminars/Workshops in collaboration with National/International Power Sector Organizations, details of which are prominently displayed on the website.

Nomination along with course fee for various courses may be sent to The Principal Director/Director of the respective institute at least 15 days in advance from the date of commencement of the course. Aspiring students for PGDC courses may visit the website, and keep abreast with announcements of the various programs and may apply as per the instructions therein. The information and brochures of different workshops, seminars and conferences being conducted at NPTI are also available on the website. Application/Registration to the workshops/seminars/conferences may be done as mentioned in the respective brochures.

Note : The minimum number of participants required for conducting any training program is 10. Else, the program will be postponed.



Voluntary Blood Donation Camp Organised by NPTI, Faridabad

CONSULTANCY SERVICES

In order to serve the industry requirements and make best usage of infrastructure and expertise, NPTI has ventured into providing consultancy services in a number of relevant areas of the Energy Sector.

In order to serve the industry requirements and make best usage of infrastructure and expertise, NPTI has been providing consultancy services to various Power Sector Organisations. The salient details are mentioned below:

Duration	Assignment name/ &brief description of main deliverables/ outputs	Name of Client & Country of Assignment	Approx. Contract value (in Rupees equivalent)/ Amount paid to your firm	Role on the Assignment
May-2015 - Jan. 2022	Engagement of Project Management Agency (PMA) Services for DDUGJY & IPDS Project Works in NESCO Utility Area	ODISHA POWER TRANSMISSION CORPORATION LIMITED, INDIA	Rs 7,34,40,000	PMA
May-2015 Jan.- 2022	Engagement of Project Management Agency (PMA) Services for DDUGJY & IPDS Project Works in WESCO Utility Area	ODISHA POWER TRANSMISSION CORPORATION LIMITED, INDIA	Rs 11,19,96,000	PMA
May-2019 to May-2020	Appointment of Third Party Inspection Agency (TPIA) for Inspection of Rural Electrification work in the districts of Angul, Balangir, Bargarh, Deogarh, Dhenkanal, Gajpati, Jharsuguda, Kalahandi, Kandhamal, Kenojhar, Koraput, Nayagarh, Nuapada, Puri and Smabalpur in the State of Odisha under RE component of Deen Upadhaya Gram Jyoti Yojna (erstwhile TGGVY) 12 th Plan	NTPC LIMITED, BHUBANESWAR ODISHA-751012, INDIA	Rs 4,29,67,000	TPIA

Sept-2020 to March- 2023	Third Party Inspection of Material/equipments procured in favor of Dakshin Anchal Vidyut Vitran Nigam Ltd. (DVVNL), Agra	DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED URJA BHAWAN, 22KV S/s BYE PASS ROAD, SIKANDRA, AGRA-282007, UTTAR PRADESH, INDIA	Rs 1,07,70,000	TPIA
Jul-2020 to July- 2022	Third Party inspection of equipment's / material, civil works, electrical works and technical audit of substation & Tr. Lines through Govt. /Semi-Govt. agencies	DELHI TRANSCO LIMITED SHAKTI SADAN, KOTLA ROAD, NEW DELHI-110003, INDIA	Rs 28,86,693	TPIA
Oct-2018 to 2022	Third Party Independent Evaluation Agency (TPIEA) FOR Quality Assurance of Works under Saubhagya Scheme in Uttar Pradesh	U.P POWER CORPORATION LTD. SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW-226001, UTTAR PRADESH, INDIA	Rs 6310 per Village	TPIA
Sept-2019 to 2022	Third Party Enquiry of 33Kv, 11Kv lines & underground cables under various schemes in Uttar Pradesh	U.P POWER CORPORATION LTD. SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW-226001, UTTAR PRADESH, INDIA	Rs 3690 per manday	TPIA
May-2020 to Jan. - 2022	Technical & Financial Audit of medium & small Distribution Transformer Repair Workshops in Discoms of Uttar Pradesh	U.P POWER CORPORATION LTD. SHAKTI BHAWAN, 14-ASHOK MARG, LUCKNOW-226001, UTTAR PRADESH, INDIA	Rs 22712.64 per workshop	TPIA
Jun-2010 to June- 2016	Quality Monitoring & inspection of material and field work as REC Quality Monitor for RGGVY projects in XI plan	RURAL ELCTRIFICATION CORPORATION LIMITED CORE-4, SCOPE COMPLEX, 7 LODI ROAD NEW DELHI 110003, INDIA	Rs 1,87,00,000	TPIA

Ongoing Consultancy Project

Duration	Assignment name/& brief description of main deliverables/outputs	Name of Client & Country of Assignment	Approx. Contract value (in Rupees equivalent)/ Amount paid to your firm	Role on the Assignment
Jul-2021 to till date	Third Party Inspection of Material Purchased by Jaipur Discom against TN-20	JAIPUR VIDYUT VITRAN NIGAM LIMITED OLD POWER HOUSE PRIMISES NEAR RAM MANDIR BANIPARK JAIPUR, INDIA	Aprox 50 lakh	TPIA
Apr-2023 to till date	Third party inspection of material/equipments procured in favour of Dakshinanchal Vidyut Vitran Nigam Ltd(DVVNL),Agra	DAKISHINANCHAL VIDYUT VITRAN NIGAM LIMITED URJA BHAWAN, 220 KV S/s, BYE PASS ROAD SIKANDRA, AGRA-282007	Rs 39,48,000	TPIA
Apri-2023 to till date	For engaginf utside agency to carry out the pre dispatch thirds party inspection at the vendor's premises of the material/ equipment procured by PVVNL for various scheme/work.	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED VICTORIA PARK, MEERUT-250001	Rs 1,50,08,000	TPIA
Feb-2023 to till date	Third party inspection of equipments material civil works and technical audit of substation TR lines in DTL through govt. semi govt autonomous body psu agencies	DELHI TRANSCO LIMITED SHAKTI SADAN, KOTLA ROAD, NEW DELHI-110003, INDIA	Rs 41,16,784	TPIA
May- 2022 to till date	For rate contract under TN-1566 for third party inspection of material purchased by Ajmer Discom.	AJMER VIDYUT VITRAN NIGAM LIMITED, AJMER-305004	Rs 30,00,000	TPIA
Feb.-2022 to till date	For appointment of Project Management agency in Bareilly Smart City Project- Bareilly under EUDC	MADHYANCHAL VIDYUT VITARAN NIGAM LTD., RAMPUR BAAG, BAREILLY	Rs 35,10,264	PMA
Feb.- 2023 to till date	For third party inspection of Material Supplied under Loss Reduction Components of RDSS Scheme in KESKO, Kanpur	ELECTRICITY CONSTRUCTION DIVISION, KESKO. R.P.H., KANPUR	Rs 26,43,200	TPIA

CLIENTELE AND RECRUITERS OF NPTI

International Clientele

Afghanistan, Bangladesh, Belarus, Bhutan, Cambodia, Ecuador, Ethiopia, Iraq, Kenya, Libya, Malaysia, Mexico, Myanmar, Nepal, Nigeria, Oman, Papua New Guinea, Philippines, South America, Sri Lanka, Sudan, Syria, UAE, Zambia, Zimbabwe

National Clientele

NPTI has been catering to the Training Needs of Power Sector Organizations and Process Industries such as Steel, Cement, Aluminum, Fertilizers, Refineries viz., ACC, AECO, APGENCO, Avantha Power & Infrastructure Ltd., BBMB, BHEL, Bokaro Power Supply Corporation Ltd., BPCL, C.V. Raman Engineering College, Bhubaneswar (Odisha), CEA, CESC, Chhattisgarh State Power Generation Corporation Ltd., Chhattisgarh State Power Transmission Ltd., CLP (I) Pvt. Ltd., CSPTCL, CVPPCL, Dakshin Haryana Bijli Vitran Nigam Ltd., DPL, DTL, DVC, ECIL, FACT, Forum of Regulators, GAIL, GMR Energy Ltd., GRASIMI Industries, HINDALCO, Hindustan Copper Limited, HPGCL, Ideal Energy Power Ltd., IFFCO, IIIT Bhubaneswar, IIT Indore, IOCL, IRCON, IREDA, Jindal Power, KPCL, KRIBHCO, KSEB, L&T Power Ltd., Lanco Infratech Ltd., Lanco Kondapalli Power Ltd., Lanco Power, Lanco Vidarbha Thermal Power Power Ltd., MOIL Nagpur, MPEB, MPPTCL, MSETCL, NALCO, National Hydroelectric Power Corporation Ltd., NEEPCO, NFL, NHDC, NIST Bhubaneswar (Odisha), NIT Hamirpur, NIT Riapur, NIT Warangal (Telangana), NITS Gwalior, NLC, NPC, NTPC Baruani, NTPC, OHPC, ONGC, OPGCL, POSOCO, PowerGrid Corporation of India Ltd., PPN Power, Generating Company Ltd., Rajasthan Rajya Vidyut Utpadan Nigam Ltd., Reliance Infrastructure, RRUVNL, S R Group of Institutions Jhansi, SAIL, SJVNL, South Eastern Coalfields Limited, Sterlite Grid Ltd., Sterlite Power Transmission THDC, Tata Power Company Ltd., THDC LTD., Torrent Power Ltd., Toshiba, Udupi Power Corporation Ltd., UP Rajya Vidyut Utpadan Nigam Ltd., UPRVUNL, WAPCOS, etc.

Recruiters

Our students of Post Graduate Diploma Courses (PGDC) and Post Diploma Courses (PDC) have been recruited by reputed companies like ABB, ABPS Advisory, Adani Power, APPCPL, Atkins Global, Azure Power, Bajaj Electricals, Mumbai, Bajaj Energy (LPGCL), Bhadreshwar Vidyut Private Limited (BVPL), BSES, CFL, CLP, CMR Ltd. Warora, Crisil, Datagen, Deloitte, Easun Reyrolle, Eco Securities, Enercon Capital, Energy Exemplar, Erudite, Enzen Essar Power, Essar Power, ETAC, Feedback Ventures, Gammon India, Genus Power & Infrastructure, Global, GMR, HINDALCO, HPPL, I2S Technologies, IL&FS, Infraline, JK Cement, JP Power, JVS Electronics, Kalkitech, Kalpataru Power Transmission, Kamini Engg. Corp. (KEC), KPMG, KSK Energy Ventures, L&T (NABHA Power LTD.), Lahmeyer, Lanco, LNJ Bhilwara, Manikaran Power, Moser Baer, NCC, NDPL, Noida Power, Oblum Electric, Open System International, Philips Carbon Black Ltd., Power Mech. Ltd., PRDC, PTC, PWC, Reliance Power, ReNew Power, Samsung, Satyam, Schweitzer Engineering Lab, Secure Meters, Shirpur Paper Mill, Shree Cements Ltd., SKSPGCL, Sterlite Power, Suzlon, Tata Power, TATA Steel, Teems India Towerlines, TERI, Thermax Co., Torrent Power, Toshiba T&D, Vedanta, Korba, Vedanta, Vijay Electricals, Virtues Energy, VISA Steel Ltd. Orissa, etc.

TRAINING PROGRAMS

NPTI CORPORATE OFFICE, FARIDABAD

Simulator Training Programs

S.No.	Name of Program	Duration	Date*
i. DAS Based Simulator System and Conventional & Video Process Control System			
1.	500 MW Fossil Fuel Power Plant	02 Weeks	Mutually agreed basis
ii. DCS Based Simulator System			
2.	430 MW Combined Cycle Gas Turbine Power Plant	02 Weeks	(1) 03.04.2023 to 14.04.2023 (2) 17.04.2023 to 28.04.2023 (3) 01.05.2023 to 12.05.2023 (4) 15.05.2023 to 26.05.2023 (5) 29.05.2023 to 02.06.2023 (6) 05.06.2023 to 16.06.2023 (7) 19.06.2023 to 30.06.2023 (8) 03.07.2023 to 14.07.2023 (9) 17.07.2023 to 28.07.2023 (10) 31.07.2023 to 11.08.2023
3.	800 MW/660 MW (Emulated) Super Critical Thermal Power Plant Simulator Training	02 Weeks	(1) 03.04.2023 to 14.04.2023 (2) 17.04.2023 to 28.04.2023 (3) 01.05.2023 to 12.05.2023 (4) 15.05.2023 to 26.05.2023 (5) 29.05.2023 to 02.06.2023 (6) 05.06.2023 to 16.06.2023 (7) 19.06.2023 to 30.06.2023 (8) 03.07.2023 to 14.07.2023 (9) 17.07.2023 to 28.07.2023 (10) 31.07.2023 to 11.08.2023
iii. Multifunctional Simulator Configurations			
1.	210 MW-Thermal Power Plant	02 Weeks	(1) 14.08.2023 to 25.08.2023 (2) 28.08.2023 to 01.09.2023 (3) 04.09.2023 to 15.09.2023 (4) 18.09.2023 to 29.09.2023 (5) 02.10.2023 to 13.10.2023 (6) 16.10.2023 to 27.10.2023
2.	250 MW-Hydro Power Plant	01 Weeks	(1) 30.10.2023 to 03.11.2023 (2) 06.11.2023 to 10.11.2023 (3) 13.11.2023 to 17.11.2023 (4) 20.11.2023 to 24.11.2023 (5) 27.11.2023 to 01.12.2023
3.	500 MW- Thermal Power Plant	02 Weeks	(1) 04.12.2023 to 15.12.2023 (2) 18.12.2023 to 29.12.2023 (3) 01.01.2024 to 12.01.2024 (4) 15.01.2024 to 26.01.2024 (5) 29.01.2024 to 09.02.2024
4.	550 MW-Combined Cycle Power Plant (CCPP)	02 Weeks	(1) 12.02.2024 to 23.02.2024 (2) 26.02.2024 to 01.03.2024 (3) 04.03.2024 to 15.03.2024 (4) 18.03.2024 to 29.03.2024
5.	SCADA & Smart Grid Simulator	01 Weeks	(1) 03.04.2023 to 07.04.2023 (2) 10.04.2023 to 14.04.2023

			(3) 17.04.2023 to 21.04.2023 (4) 24.04.2023 to 28.04.2023 (5) 01.05.2023 to 05.05.2023 (6) 08.05.2023 to 12.05.2023 (7) 15.05.2023 to 19.05.2023 (8) 22.05.2023 to 26.05.2023
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Long Term Training Programs

S. No.	Name of Program	Duration	Date*
1.	Post Graduate Diploma Course (PGDC) in Power Plant Engineering	52 Weeks	To be announced, visit NPTI website: www.npti.gov.in
2.	Post Graduate Diploma Course (PGDC) in Renewable Energy and Grid Interface Technology	52 Weeks	
3.	Post Graduate Diploma Course (PGDC) in Smart Grid Technologies	52 Weeks	
4.	Post Graduate Diploma Course (PGDC) in Power Management	52 Weeks	
5.	Post Graduate Diploma Course (PGDC) in Power System Operation	52 Weeks	

Medium Term Training Programs (5-16 weeks)

S. No.	Name of Program	Duration	Date*
1.	3 Month Course on “Design Erection and Commissioning of Solar Power Plants”	03 Months	To be announced, visit NPTI website: www.npti.gov.in
2.	3 Month Course on “Distribution Substation Management & Optimal Utilization of Components”	03 Months	
3.	Post Graduate Certificate Course (PGCC) in Power Plant Engineering	03 Months	
4.	Post Graduate Certificate Course (PGCC) in E-Mobility and Supervisors	04 Months	To be announced, visit NPTI website: www.npti.gov.in
5.	New and Renewable Sources and Grid Integration in India	1.5 Months	
6.	Executive Development Program for The Supervisory Staff Working in Finance & Account Department	1.5 Months	
7.	Post Graduate Diploma in Cyber Security (PGDCS)	06 Months	

Short Term Training Programs (1 day to 4 weeks)

S.No.	Name of Program	Duration	Date*
i. POWER GENERATION AND ITS ANCILLARY EQUIPMENTS			
1.	Issues Related to Super critical Technology	02 Days	Mutually agreed basis
2.	Flexible Operation of Thermal Power Plants in India	03 Days	Mutually agreed basis
3.	Thermal Power Station Operation	01 Weeks	Mutually agreed basis
4.	Renovation & Modernization of Thermal Power Plant/Station	01 Weeks	Mutually agreed basis
5.	Stream Turbine Governing	03 Days	Mutually agreed basis
6.	Generator & Auxiliaries Including Excitation System	01 Weeks	Mutually agreed basis
7.	Thermal Power Plant Efficiency & Performance Monitoring	03 Days	Mutually agreed basis
8.	Valves and Pumps in Power Plant Engineering	03 Days	Mutually agreed basis
9.	Vibrational Analysis	03 Days	Mutually agreed basis
10.	Pump Operation, Maintenance and Performance Monitoring	03 Days	Mutually agreed basis
ii. HYDROPOWER RENEWABLE ENERGY SYSTEMS			
11.	Small, Mini and Micro Hydro Power Generation	03 Days	Mutually agreed basis
12.	Specialized Training Program on Hydro Power Plant Engineering	03 Weeks	Mutually agreed basis
13.	Entrepreneurship Development Program on Solar PV Rooftop	01 Weeks	Mutually agreed basis
14.	Solar Power Generation Technology - On Grid & Off Grid	02 Days	Mutually agreed basis
15.	Hybrid Renewable Energy Systems (HRES)	02 Days	Mutually agreed basis
16.	Green Energy for Clean Environment / Green Energy Technologies	01 Days	Mutually agreed basis
17.	Development of Floating Solar PV System (FSPV) in India	01 Days	Mutually agreed basis
18.	Waste to Energy Technology: Green Energy Development	02 Days	Mutually agreed basis
19.	Skill Development Program on Renewable Energy	04 Weeks	Mutually agreed basis
iii. TRANSMISSION AND DISTRIBUTION SYSTEM			
20.	Power System Studies & Load Dispatch	03 Days	Mutually agreed basis
21.	Operation & Maintenance (O&M) of Transmission Lines & Sub-Station	01 Weeks	Mutually agreed basis
22.	Operation & Maintenance (O&M) of HT/LT Switchgear	01 Weeks	Mutually agreed basis
23.	Operation & Maintenance (O&M) HVDC Transmission Systems	01 Weeks	Mutually agreed basis
24.	Condition Monitoring Residual Life Assessment (RLA) & LE of Substation Equipment	03 Days	Mutually agreed basis
25.	Advanced Power System Protection	01 Weeks	Mutually agreed basis
26.	Power Quality Measurement	03 Days	Mutually agreed basis
27.	Distribution Network Planning for UG cable Systems	03 Days	Mutually agreed basis
28.	Best Practices in Distribution Operation & Management	01 Weeks	Mutually agreed basis

iv. DISASTER AND SAFETY MANAGEMENT			
29.	Fire Prevention, Protection Safety	03 Days	Mutually agreed basis
30.	Electrical Safety and Inspection of Electrical Installations, Accident, Prevention Recent Trends	03 Days	Mutually agreed basis
31.	“Measures Relating to Safety and Electrical Supply”	01 Weeks	Mutually agreed basis
32.	Industrial Safety	02 Days	Mutually agreed basis
v. GRID INTEGRATION, SMART GRID & SMART CITIES, EV AND ENERGY STORAGE SYSTEM			
33.	Renewable Energy & Grid Integration Technologies	03 Days	Mutually agreed basis
34.	Smart Grids and Renewable Energy Integration	01 Days	Mutually agreed basis
35.	Development of Micro Grid (MG) Macro Grid (MCG) in India	03 Days	Mutually agreed basis
36.	Smart Grid and Smart Metering Technologies and Applications	03 Days	Mutually agreed basis
37.	Smart Power Flow Controller for Smarter Grid Application	01 Days	Mutually agreed basis
38.	Smart Grids For Smart Cities	03 Days	Mutually agreed basis
39.	Battery Energy Storage & Micro Grids in India	02 Days	Mutually agreed basis
40.	Renewable Energy and Grid Interface Technology & Regulatory Framework	02 Days	Mutually agreed basis
41.	Grid Integration of Hybrid Generation: Review of existing Sub-Station Controls required for upcoming RE Mix in Switchyard and handling Intermittency with Grid and Energy Storage options	03 Days	Mutually agreed basis
42.	Smart Transmission & Distribution System	01 Weeks	Mutually agreed basis
vi. IT, ICT, GIS & RS, BIG DATA ANALYTICS AND CYBER SECURITY			
43.	Cyber Security in Power Sector	01 Days	Mutually agreed basis
44.	Smart Grid Technologies, Internet of things and Cyber Security	02 Days	Mutually agreed basis
vii. ENERGY EFFICIENCY, ENERGY AUDIT AND DEMANDSIDE MANAGEMENT			
45.	Energy Audit and Loss Reduction in T&D Systems	02 Days	Mutually agreed basis
46.	Energy Efficiency in Electrical Utilities	03 Days	Mutually agreed basis
47.	Big Data Analytics & Data Science Training covering descriptive, Prescriptive & predictive analytic hands-on case studies with Industrial Orientation (Energy & Utility)	01 Weeks	Mutually agreed basis
48.	Accelerating Energy Efficiency in India: Initiatives & Opportunities	02 Days	Mutually agreed basis
49.	Efficient Energy Management	01 Days	Mutually agreed basis
viii. POWER MANAGEMENT AND MANAGEMENT DEVELOPMENT PROGRAMS			
50.	Regulatory Framework in Power Sector	02 Days	Mutually agreed basis
51.	Open Access, Power Training and Tariffs- ABT Scenario	03 Days	Mutually agreed basis
52.	Management of Renewable Energy (Solar Energy in Particular); Finance and Economics of Renewable Energy	02 Days	Mutually agreed basis
53.	Contract Management	02 Days	Mutually agreed basis
54.	Government e-Market (GeM) for Sellers & Service Providers	02 Days	Mutually agreed basis

55.	Procurement Procedures & Contracting	03 Days	Mutually agreed basis
56.	Regulatory Issues in Power Sector	05 Days	Mutually agreed basis
57.	Leadership Skills and Stress Management	02 Days	Mutually agreed basis
58.	Human Resource Development Program for Finance Officer/Manager	01 Weeks	Mutually agreed basis
ix. ENVIRONMENTAL MANAGEMENT			
59.	Environmental Issues in Thermal Power Stations and FGD Technology	02 Days	Mutually agreed basis
60.	Air Pollution Monitoring & Control Technologies	02 Days	Mutually agreed basis
61.	Environmental Impact Assessment and Environment Management Plan	03 Days	Mutually agreed basis

Customized Training Program

S. No.	Name of Program	Duration	Participant/ Organization
1.	Training on Sensitizing Farmers on the stubble/crop residue (Parali) burning	01 Day	Farmers
2.	Training Program of supply chain of stubble/crop residue	03 Days	PELLET Manufacturers and Bale suppliers
3.	Training Program Next Generation Distribution System Transition towards Smart Grid	01 Week	Foreign Nationals
4.	Training Program on Smart Metering Challenges and Application	01 Week	Foreign Nationals
5.	TrainingProgram-1: Introduction to AMI and Role of AMI in reducing AT&C losses	03 Days	DISCOM Employee (Jr. & Middle Management)
6.	Training Program-2: AMI Design and System Program Management	03 Days	DISCOM Employee (Sr. & Middle Management)
7.	Training Program-3: IT/Comm. Technology in Smart metering	10 Days	DISCOM Employee (IT/Metering Dept. Personnel)
8.	Training Program-4: AMI analytics and data applications	10 Days	DISCOM Employee (Commercial/Operation Dept. Personnel)
9.	TrainingProgram-5: SCADA, IT/OT Technologies DMS & OMS System	10 Days	DISCOM Employee (Jr. Middle& Sr. Management)
10.	Power & Energy Technologies	04 Weeks	Graduate Engineers
11.	Specialist Level Course on Regulatory Framework in Power Sector	02 Weeks	POSOCO, RLDCs, SLDCs
12.	Business Continuity Management	01 Day	Mutually agreed basis
13.	Rights of Consumers Rules, 2020 & Electricity Amendment Bill, 2021	02 Days	Mutually agreed basis
14.	Grid Modernization, Grid Planning-Role of Storage.	02 Days	Mutually agreed basis

15.	Islanding and Load Shedding & GIS Technology, AIS versus GIS and Cable Termination Technology.	03 Days	Mutually agreed basis
16.	Hydrogen Energy and National Hydrogen Mission	02 Days	Mutually agreed basis
17.	Fuel Cell and Battery Energy Storage	02 Days	Mutually agreed basis
18.	IT 4.0 & Smart City	01 Day	Mutually agreed basis
19.	Electricity Storage and Analysis for Design Electricity grid	05 Days	Mutually agreed basis
20.	MDMS and IT Infrastructure based on Cloud Storage Technology	03 Days	Mutually agreed basis
21.	Data Analytics and Artificial Intelligence with Python & Tableau	03 Days	Mutually agreed basis
22.	Soft skill development and Management Program for DISCOMs	03 Days	Mutually agreed basis
23.	Distribution Automation and Control an Secure Industrial Applications	03 Days	Mutually agreed basis
24.	Cyber Security Management System for IT & OT and Information Security in Power Utilities.	05 Days	Mutually agreed basis
25.	Machine Learning Application for Distribution System and Virtual Reality for Distribution Planning	02 Days	Mutually agreed basis
26.	Deviation Settlement Mechanism	02 Days	Mutually agreed basis
27.	Real Time Market in Power Sector	02 Days	Mutually agreed basis
28.	Power Trading and Power Exchange	02 Days	Mutually agreed basis
29.	Protection System of Hydro Power Plant	05 Days	Mutually agreed basis
30.	Tariff regulation, calculations of Hydro Project	02 Days	Mutually agreed basis
31.	AutoCAD Training	03 Days	Mutually agreed basis
32.	O&M of Auxiliaries of Hydropower Plant	05 Days	Mutually agreed basis
33.	RE Technologies & RE Integration	03 Days	Mutually agreed basis
34.	Efficiency/Performance testing of Hydropower Plant as per IEC 60140	02 Days	Mutually agreed basis
35.	Advanced Distribution Management System and Distributed Energy Resources Management	02 Days	Mutually agreed basis
36.	Design, Operation, Economic Evaluation of Floating Solar	02 Days	Mutually agreed basis

Tentative Schedule for Cyber Security Training Programs in 2023-2024

Batch No.	Name of Program	Duration	Dates
Batch 15	Basic Level Cyber Security Training and Certification Program (SLDC-01)	2 weeks	15.05.2023 - 26.05.2023
Batch 16	Basic Level Cyber Security Training and Certification Program (SLDC-02)	2 weeks	12.06.2023 - 23.06.2023
Batch 17	Basic Level Cyber Security Training and Certification Program	2 weeks	10.07.2023 - 21.07.2023
Batch 18	Basic Level Cyber Security Training and Certification Program (SLDC-03)	2 weeks	07.08.2023 - 18.08.2023
Batch 19	Basic Level Cyber Security Training and Certification Program	2 weeks	04.09.2023 - 15.09.2023
Batch 20	Basic Level Cyber Security Training and Certification Program (SLDC-04)	2 weeks	03.10.2023 - 14.10.2023
Batch 21	Basic Level Cyber Security Training and Certification Program	2 weeks	30.10.2023 - 10.11.2023
Batch 22	Basic Level Cyber Security Training and Certification Program (SLDC-05)	2 weeks	04.12.2023 - 15.12.2023
Batch 23	Basic Level Cyber Security Training and Certification Program	2 weeks	08.01.2024 - 19.01.2024
Batch 24	Basic Level Cyber Security Training and Certification Program (SLDC-06)	2 weeks	05.02.2024 - 16.02.2024
Batch 25	Basic Level Cyber Security Training and Certification Program	2 weeks	04.03.2024 - 15.03.2024

* Dates are tentative and may be changed according to the need of the client organization.

Schedule for Intermediate level Training and Certificate Programs on Cyber security

Batch No	Name of Program	Duration	Dates
2	Intermediate Level Cyber Security Training and Certification Program	2 weeks	17.07.2023 - 28.07.2023
3	Intermediate Level Cyber Security Training and Certification Program	2 weeks	04.09.2023 - 15.09.2023
4	Intermediate Level Cyber Security Training and Certification Program	2 weeks	08.01.2024 - 20.01.2024

Schedule for Advanced level Training and Certificate Programs on Cyber Security

Batch No	Scheduled Training Program	Duration	Dates
1	Advanced Level Cyber Security Training and Certification Program	2 weeks	21.08.2023 - 01.09.2023
2	Advanced Level Cyber Security Training and Certification Program	2 weeks	30.10.2023 - 10.11.2023
3	Advanced Level Cyber Security Training and Certification Program	2 weeks	04.03.2024 - 15.03.2024

NPTI (NORTHERN REGION), BADARPUR

	Name of Program	Duration	Date*
1.	Battery Energy Storage System (BESS)	01 Week	24.04.2023 - 28.04.2023
2.	Electrical Safety and Inspection of Electrical Installations, Accident, Prevention Recent Trends	01 Week	22.05.2023 - 26.05.2023
3.	O&M of Transformer	01 Week	19.06.2023 - 23.06.2023
4.	Distribution System Overview	01 Week	17.07.2023 - 21.07.2023
5.	Switchgear Maintenance	01 Week	21.08.2023 - 25.08.2023
6.	Switchgear & Transformer Maintenance	01 Week	18.09.2023 - 22.09.2023
7.	Boiler and Boiler Auxiliaries Operation	01 Week	16.10.2023 - 20.10.2023
8.	O&M of Sub Station	01 Week	20.11.2023 - 24.11.2023
9.	Transmission Line Maintenance & Introduction to Live line Maintenance Techniques	01 Week	18.12.2023 - 22.12.2023
10.	Role of Smart Grids on the Indian Power Sector: Current Developments, Challenges and way Forward	01 Week	15.01.2024 - 19.01.2024
11.	Balance of Thermal Power Plant	01 Week	19.02.2024 - 23.02.2024
12.	Electrical Protection System	01 Week	18.03.2024 - 22.03.2023

* Dates are tentative and may be changed according to the need of the client organization.

NPTI (HYDRO POWER TRAINING CENTER), NANGAL

S.No.	Name of Program	Duration	Date*
1.	Advanced O & M Practices in Supercritical Thermal Power Plant	01 Week	17.04.2023 - 21.04.2023
2.	Flue Gas De-Sulphurization Techniques in TPPS	01 Day	25.04.2023
3.	Cyber Security in Power Stations	01 Day	27.04.2023
4.	Hydro Turbine, Auxiliaries & Governing System	03 Days	10.05.2023 - 12.05.2023
5.	Specialized Training Program on Hydro Power Plant Engineering	01 Week	15.05.2023 - 19.05.2023
6.	250 MW Hydro Simulator	01 Week	22.05.2023 - 26.05.2023
7.	Best O & M Practices of Switchgear & Transformer	01 Week	05.06.2023 - 09.06.2023
8.	Specialized Training Program on O&M of Hydro Electric Plant	12 Weeks	12.06.2023 - 01.09.2023
9.	Post Graduate Diploma Course in Thermal Power Plant Engineering (PGDC)	52 Weeks	12.06.2023 - 07.06.2024
10.	Solar Energy & Grid Integration	02 Days	15.06.2023 - 16.06.2023
11.	Advanced Mtc Practices of Valves & Pumps in Hydro Power Plant	03 Days	12.07.2023 - 14.07.2023
12.	Boiler and related compliances and statutory requirements	01 Day	18.07.2023
13.	Hydro Power Plant Operation	01 Week	24.07.2023 - 28.07.2023
14.	Advanced O & M techniques in Hydro Power Plants	03 Days	09.08.2023 - 11.08.2023
15.	Cyber Security in Power Stations	01 Day	24.08.2023
16.	250 MW Hydro Simulator	01 Week	11.09.2023 - 15.09.2023
17.	Post Graduate Diploma Course in Hydro Power Plant Engineering PGDC (H)	39 Weeks	18.09.2023 - 14.06.2024
18.	Hydro Power Plant Auxiliaries	03 Days	25.09.2023 - 27.09.2023
19.	Safety in Power Station	02 Days	04.10.2023 - 05.10.2023
20.	Hydro Power Plant Operation	01 Week	09.10.2023 - 13.10.2023
21.	Advanced O & M Practices in Supercritical Thermal Power Plant	01 Week	16.10.2023 - 20.10.2023
22.	250 MW Hydro Simulator	01 Week	06.11.2023 - 10.10.2023
23.	Project Management	01 Day	16.11.2023
24.	Advanced O & M techniques in Thermal Power Plant	03 Days	22.11.2023 - 24.11.2023
25.	Specialized Training Program of Hydro Power Plant	06 Weeks	04.12.2023 - 12.01.2024
26.	Hydro Generator and its excitation system	03 Days	20.12.2023 - 22.12.2023
27.	250 MW Hydro Simulator	01 Week	08.01.2024 - 12.01.2024
28.	Electricity Act and Regulations	02 Days	17.01.2024 - 18.01.2024
29.	Hydro Power Plant Operation	03 Days	23.01.2024 - 25.01.2024
30.	Solar Energy & Grid Integration	02 Days	06.02.2024- 07.02.2024

31.	Advanced O & M techniques in Hydro Power Plants	03 Days	13.02.2024 - 15.02.2024
32.	Hydro Power Plant Auxiliaries	02 Days	20.02.2024 - 21.02.2024
33.	Safety in Power Station	02 Days	05.03.2024 - 06.03.2024
34.	Best O&M Practices of Hydraulics Gates in Hydro Power Plant	02 Days	12.03.2024 - 13.03.2024
35.	250 MW Hydro Simulator	01 Week	18.03.2024 - 22.03.2024

* Dates are tentative and may be changed according to the need of the client organization.

NPTI (HOT LINE TRAINING CENTRE), BENGALURU

S.No.	Name of Program	Duration	Date
1.	22 nd Switchyard Maintenance Techniques using LLMT for Lineman/Supervisors	04 Weeks	03.04.2023 - 28.04.2023
2.	33 rd Live Line Punctured Insulator Detection	01 Week	08.05.2023 - 12.05.2023
3.	23 rd Switchyard Maintenance Techniques using LLMT for Lineman/Supervisors	04 Weeks	22.05.2023 - 16.06.2023
4.	34 th Live Line Punctured Insulator Detection	01 Week	26.06.2023 - 30.06.2023
5.	120 th Live Line Maintenance Techniques (LLMT) using Hot Stick Method (HSM)	11 Weeks	10.07.2023 - 22.09.2023
6.	54 th One week Awareness Course for Executives in Hot Line Activities	01 Week	04.09.2023 - 08.09.2023
7.	Live Line Insulator Washing (On Site)	01 Week	09.10.2023 - 13.10.2023
8.	121 st Live Line Maintenance Techniques (LLMT) using Hot Stick Method (HSM)	11 Weeks	16.10.2023 - 29.12.2023
9.	55 th One week Awareness Course for Executives in Hot Line Activities	01 Week	11.12.2023 - 15.12.2023
10.	Live Line Insulator Washing (On Site)	01 Week	08.01.2024 - 12.01.2024
11.	29 th Live Line Maintenance Techniques (LLMT) using Bare Hand Method (BHM)	05 Weeks	22.01.2024 - 23.02.2024
12.	35 th Live Line Punctured Insulator Detection	01 Week	04.03.2024 - 08.03.2024
13.	Live Line Insulator Washing (On Site)	01 Week	18.03.2024 - 22.03.2024

NPTI (POWER SYSTEM TRAINING INSTITUTE), BENGALURU

S.No.	Name of Program	Duration	Date*
1.	Power Cables and Jointing Techniques	03 Days	Mutually agreed basis
2.	Advanced Power System Protection	03 Days	Mutually agreed basis
3.	Electric Vehicle: Road Map for Distribution utilities	03 Days	Mutually agreed basis
4.	Energy Efficiency in electrical Utilities	03 Days	Mutually agreed basis
5.	O&M, Testing of Power Transformers and HT Circuit Breakers	03 Days	Mutually agreed basis
6.	SPV (Solar Photo Voltaic) Power Plant-Integration with grid and storage batteries	04 Days	Mutually agreed basis
7.	Condition Monitoring, RLA & LE of Substation Equipment	03 Days	Mutually agreed basis
8.	Transformer and Switchgear Maintenance	04 Days	Mutually agreed basis
9.	Power Quality & Harmonics Mitigation and Reactive Power Management	03 Days	Mutually agreed basis
10.	210 MW TPP Simulator Training	02 Weeks	Mutually agreed basis
ll.	500 MW TPP Simulator Training	02 Weeks	Mutually agreed basis
12.	800 MW TPP (Super Critical Simulator Training	02 Weeks	Mutually agreed basis
13.	Steam Turbine Operation	02 Weeks	Mutually agreed basis
14.	D-EHC (Governing System)	02 Weeks	Mutually agreed basis
15.	RE Forecasting	03 Days	Mutually agreed basis
16.	Floating Solar Technologies	03 Days	Mutually agreed basis
17.	IOT in Power Utilities	03 Days	Mutually agreed basis
18.	Wind Power Technologies	03 Days	Mutually agreed basis
19.	Data Analytics in Power Sector	03 Days	Mutually agreed basis
20.	Programming on Python	03 Days	Mutually agreed basis
21.	Programming on R-Language	03 Days	Mutually agreed basis
22.	Programming on Tableau	03 Days	Mutually agreed basis
23.	Smart Cities	03 Days	Mutually agreed basis
24.	Energy Storage Technologies	03 Days	Mutually agreed basis
25.	AI in Power Utilities	03 Days	Mutually agreed basis
26.	Applications of GIS Power Sector	03 Days	Mutually agreed basis
27.	Substation Automation	03 Days	Mutually agreed basis
28.	Grid Code Requirements and studies for RE Integrations	03 Days	Mutually agreed basis
29.	Power System Operation (Basic)	03 Weeks	Mutually agreed basis
30.	Refresher – II (PSO) (Basic)	3 Days	Mutually agreed basis
31.	Power System Reliability (Specialized)	12 Days	Mutually agreed basis
32.	Refresher Course on Power System Reliability (Specialized)	3 Days	Mutually agreed basis
33.	Power System Logistics (Specialized)	12 days	Mutually agreed basis
34.	Regulatory Framework in Power Sector (Specialized)	12 days	Mutually agreed basis
35.	Renewable Energy Sources and Grid Integration (Specialized)	12 days	Mutually agreed basis

* Dates are tentative and may be changed according to the need of the client organization.

NPTI (SOUTHERN REGION), NEYVELI

S.No.	Name of Program	Duration	Dates*
I POWER GENERATION AND ITS ANCILLARY EQUIPMENTS			
1.	Power Station Pumps-Operation, Maintenance & Performance Monitoring	03 Days	17.04.2023-19.04.2023
2.	Vibration Analysis (On-line)	03 Days	26.04.2023-28.04.2023
3.	Thermal Power Station Operation (On-line)	03 Days	08.05.2023-10.05.2023
4.	Best Practices in O&M of Air Compressor (On-line)	02 Days	03.05.2023-04.05.2023
5.	Boiler Tubes Failure Analysis & Case Studies (On-line)	02 Days	22.05.2023-23.05.2023
6.	Steam Turbine & Auxiliaries Operation	05 Days	29.05.2023-02.06.2023
7.	Power Transformer Maintenance & Testing	03 Days	26.06.2023-28.06.2023
8.	Power Station - Valves, Actuators Maintenance	03 Days	14.06.2023-16.06.2023
9.	Advanced Welding and Non-Destructive Testing (NDT) Technologies (On-line)	03 Days	26.06.2023-28.06.2023
10.	Boiler Firing System & Equipment	03 Days	05.07.2023-07.07.2023
11.	O&M of Coal Mills & Feeders (On-line)	03 Days	10.07.2023-12.07.2023
12.	Efficiency & Performance Monitoring of TPS	03 Days	02.08.2023-04.08.2023
13.	Fans and Air Heaters	03 Days	02.08.2023-04.08.2023
14.	Best Practices in O&M of Air Compressor	02 Days	24.08.2023-25.08.2023
15.	Vibration Analysis	03 Days	09.08.2023-11.08.2023
16.	Advanced Welding and Non-Destructive Testing (NDT) Technologies	03 Days	04.09.2023-06.09.2023
17.	Boiler and its Auxiliaries- Operation & Maintenance	03 Days	20.09.2023-22.09.2023
18.	Large Capacity CFBC Boiler- Operation & Maintenance	03 Days	30.10.2023-01.11.2023
19.	Generator & Auxiliaries including Excitation System- Operation & Maintenance	03 Days	01.11.2023-03.11.2023
20.	Steam Turbine & Auxiliaries Operation & Maintenance	05 Days	06.11.2023-10.11.2023
21.	O & M of Coal Mills & Feeders	03 Days	22.11.2023-24.11.2023
22.	Electrostatic Precipitator - Operation & Maintenance	03 Days	29.11.2023-01.12.2023
23.	Transformer Maintenance & Testing	03 Days	06.12.2023-08.12.2023
24.	Burner Management System/FSSS	03 Days	18.12.2023-20.12.2023
25.	Issues Related to Supercritical Boiler Technology (On-line)	02 Days	22.01.2024-23.01.2024
26.	Gas Turbine & Combined Cycle Power Plant Appreciation (On-line)	03 Days	31.01.2024-02.02.2024
27.	Power Station Pumps-Operation, Maintenance & Performance Monitoring	03 Days	07.02.2024-09.02.2024
28.	Power Plant Chemistry	03 Days	21.02.2024-23.02.2024
29.	Boiler Tubes Failure Analysis & Case Studies	02 Days	28.02.2024-29.02.2024
30.	Bearing Maintenance & Shaft Alignment	03 Days	11.03.2024-13 .03.2024
31.	Power Market & Power Trading	02 Days	14.03.2024-15.03.2024
II HYDRO POWER AND RENEWABLE ENERGY SYSTEMS			
32.	Solar PV Plant Design & Installation (On-line)	02 Days	20.04.2023-21.04.2023
33.	Clean Energy Technologies (On-line)	03 Days	15.05.2023-17.05.2023
34.	Floating Solar PV Technology (On-line)	03 Days	05.06.2023-07.06.2023

35.	Solar PV Technology	03 Days	21.06.2023-23.06.2023
36.	Hybrid Renewable Energy Systems (On-line)	03 Days	26.07.2023-28.07.2023
37.	Solar Photovoltaic System Design & Installation	03 Days	16.08.2023-18.08.2023
38.	Solar PV Panel Installation, Testing & Maintenance	03 Days	11.09.2023-13.09.2023
39.	Solar PV Technology	03 Days	30.10.2023-01.11.2023
40.	Clean Energy Technologies	05 Days	13.11.2023-17.11.2023
41.	Solar PV Technology (On-line)	03 Days	11.12.2023-13.12.2023
42.	Renewable Energy Integration - Issues & Challenges (On-line)	02 Days	21.12.2023-22.12.2023
43.	Wind, Small, Hydro and Biomass Technology	03 Days	21.02.2024-23.02.2024
44.	Auxiliary Power Consumption (APC) & Energy Audit/ Conservation of Thermal Power Station	03 Days	21.02.2024-23.02.2024
III TRANSMISSION AND DISTRIBUTION SYSTEM			
45.	Switchgear Maintenance	02 Days	24.04.2023-25.04.2023
46.	Electrical Protection System (On-line)	03 Days	12.07.2023-14.07.2023
47.	Power System Studies and Load Dispatch (On-line)	03 Days	07.08.2023-09.08.2023
48.	Power System Energy Losses	03 Days	30.08.2023-01.09.2023
49.	Power Cable Jointing Technologies	03 Days	18.10.2023-20.10.2023
50.	Electrical Protection System	03 Days	17.01.2024-19.01.2024
51.	Recent Trends in Transformer Testing	03 Days	31.01.2024-02.02.2024
52.	Transformers	03 Days	07.02.2024-09.02.2024
IV CONTROL AND INSTRUMENTATION ENGINEERING			
53.	PLC & SCADA applications in Thermal Power Plant (On-line)	02 Days	25.05.2023-26.06.2023
54.	Control and Instrumentation in Power Station	03 Days	07.06.2023-09.06.2023
55.	Power Plant Auto Control (On-line)	03 Days	09.10.2023-11.10.2023
V DISASTER AND SAFETY MANAGEMENT			
56.	Electrical Safety in Power Utilities - (On-line)	02 Days	20.11.2023-21.11.2023
VI GRID INTEGRATION, SMART GRID & SMART CITIES, EV AND ENERGY STORAGE SYSTEM			
57.	Battery Energy Storage System (On-Line)	03 Days	10.04.2023-12.04.2023
58.	E-Mobility & Charging Infrastructure (On-line)	03 Days	12.04.2023-14.04.2023
59.	Renewable Energy Interface - Issues & Challenges (On-line)	02 Days	15.05.2023-16.05.2023
60.	E-Mobility - Concept & Implication	02 Days	17.07.2023-18.07.2023
61.	Energy Storage Technologies - (On-line)	02 Days	24.08.2023-25.08.2023
62.	Regulatory frame work & Commercial aspects of Indian Power Sector (On-line)	02 Days	21.09.2023-22.09.2023
63.	Energy Storage & Micro Grids in India	03 Days	04.12.2023-06.12.2023
64.	EHV Substation/ Switchyard Maintenance & Testing	02 Days	22.01.2024-23.01.2024
65.	FGD, Emission Control & Carbon Footprints in fossil fuel based Thermal Power Plant	02 Days	22.02.2024-23.02.2024
66.	Electrical Vehicles & Charging Infrastructure (On-line)	02 Days	07.03.2024-08.03.2024
VII IT, ICT, GIS & RS BIG DATA ANALYTICS AND CYBER SECURITY			
67.	Internet of Things applications (On-line)	03 Days	10.04.2023-12.04.2023
68.	Block Chain Technology	02 Days	08.06.2023-09.06.2023

69.	Data Sciences & Big Data Analytics with Industrial orientation (Energy & Utility) (On-line)	03 Days	26.06.2023-28.06.2023
70.	Block Chain Technology	02 Days	20.07.2023-21.07.2023
71.	Data Sciences & Big Data Analytics with Industrial orientation (Energy & Utility)	03 Days	04.12.2023-06.12.2023
72.	Internet of Things for Smart Grid applications	02 Days	14.12.2023-15.12.2023
73.	Internet of Things for Smart (On-line)	02 Days	22.01.2024-23.01.2024
74.	Cyber Security Issues in Smart Grid System (On-line)	02 Days	01.02.2024-02.02.2024
75.	Block Chain Technology	02 Days	08.02.2024-09.02.2024
76.	Internet of Things and Robotics (On-line Webinar)	05 Days	25.03.2024-29.03.2024
VIII ENERGY EFFICIENCY, ENERGY AUDIT AND DEMAND SIDE MANAGEMENT			
77.	Energy Audit & Demand Side Management in Power Utilities	03 Days	04.10.2023-06.10.2023
78.	Energy Conservation and Energy Audit	03 Days	10.01.2024-12.01.2024
79.	Energy Conservation & Energy Audit in Power Utilities (On-line)	03 Days	13.03.2024-15.03.2024
IX POWER MANAGEMENT AND MANAGEMENT DEVELOPMENT PROGRAMS			
80.	Power System Studies and Load Dispatch	03 Days	07.08.2023-09.08.2023
81.	Power System Energy Losses	03 Days	30.08.2023-01.09.2023
X ENVIRONMENT MANAGEMENT			
82.	Air Pollution Monitoring & Control Technologies (On-line)	02 Days	05.04.2023-06.04.2023
83.	Air Pollution Monitoring & Control Technologies	02 Days	12.06.2023-13.06.2023
84.	Air Pollution, Water Pollution, Noise Pollution & its Control measures related to Thermal Power Plant	02 Days	18.03.2024-19.03.2024

SEMINAR PROGRAMS

S. No.	Name of Program	Duration	Date*
1.	Combined Cycle & Gas Turbine Power Plant Appreciation	01 Day	10.05.2023
2.	Vibration Analysis in Rotating Equipment (On-line)	01 Day	14.06.2023
3.	Energy Efficiency Improvement in Power Plant (On-line)	01 Day	12.07.2023
4.	Solar PV & Grid Integration Issues & Challenges (On-line)	01 Day	17.08.2023
5.	E-Mobility & its importance in Energy Storage (On-line)	01 Day	13.09.2023
6.	Internet of Things & Cyber Security for Smart Grid (On-line)	01 Day	11.10.2023
7.	Battery Energy Storage System (On-line)	01 Day	16.11.2023
8.	Renewable Energy Integration - Challenges & Opportunities (On-line)	01 Day	13.12.2023
9.	Big Data Analytics & Data Sciences with Industrial orientation (Energy & Utility) (On-line)	01 Day	10.01.2024

* Dates are tentative and may be changed according to the need of the client organization.

NPTI, ALAPPUZHA

S. No.	Name of Program	Duration	Date*
1.	O&M of Transmission System	01 week	10.04.2023 - 14.04.2023
2.	Distribution network planning for UG Cable Systems	03 Days	17.04.2024- 19.04.2023
3.	Boiler Technology Supercritical	03 Days	24.04.2023- 26.04.2023
4.	Stress Management	03 Days	26.04.2023- 28.04.2023
5.	Boiler Firing system and Equipment	03 Days	08.05.2023- 10.05.2023
6.	Boiler Tube Failure and case studies	03 Days	17.05.2023- 19.05.2023
7.	WAMS & PMU: Application in Protection and Control of Power System	03 Days	24.05.2023- 26.05.2023
8.	Solar PV Technology - Installation, Maintenance and Testing	01 Week	29.05.2023- 02.06.2023
9.	Advance O&M Techniques in Hydro Power Plants	03 Days	07.06.2023- 09.06.2023
10.	Power System Studies and load Dispatch	03 Days	14.06.2023- 16.06.2023
11.	Power station Values and Pumps	03 Days	19.06.2023- 21.06.2023
12.	Large Capacity CFBC Boiler	03 Days	21.06.2023- 23.06.2023
13.	Power station Fans & Air Heaters	03 Days	05.07.2023- 07.07.2023
14.	Vibration Analysis	03 Days	12.07.2023- 14.07.2023
15.	Floating Solar PV (FSPV) Technology	03 Days	19.07.2023- 21.07.2023
16.	Power System Energy Losses	03 Days	24.07.2023- 26.07.2023
17.	Hybrid Renewable Energy Systems (HRES)	03 Days	09.08.2023- 11.08.2023
18.	Operation & Maintenance (O&M) of HT/LT Switch gear including Smart Switch Gear	03 Days	16.08.2023- 18.08.2023
19.	Advanced Power System Protection	03 Days	23.08.2023- 25.08.2023
20.	Electrical Safety and Inspection of Electrical Installation, Accident Prevention Recent Trends	02 Days	07.09.2023- 08.09.2023
21.	Operation & Maintenance (O&M) of Transmission Lines & Sub- Station	03 Days	13.09.2023- 15.09.2023
22.	Control & Instrumentation (C&I) in Power Station	03 Days	18.09.2023- 20.09.2023
23.	Power Quality, Harmonics Mitigation and Reactive Power Management	03 Days	20.09.2023- 22.09.2023
24.	Renewable Energy & Grid Integration Technologies	03 Days	04.10.2023- 06.10.2023
25.	Operation and Maintenance (O&M) &Testing of Power Transformers	03 Days	11.10.2023- 13.10.2023
26.	Power System Communication, SCADA & EMS	03 Days	18.10.2023- 20.10.2023
27.	E Mobility Charging Infrastructure	03 Days	25.10.2023- 27.10.2023
28.	PLC & SCADA Applications in Thermal Power Plant	02 Days	02.11.2023- 03.11.2023
29.	Recent trends in Power Plant Instrumentation	03 Days	08.11.2023- 10.11.2023
30.	Smart Grid and Smart Metering Technologies	03 Days	15.11.2023- 17.11.2023
31.	Cyber Security issues in power sector	03 Days	22.11.2023- 24.11.2023
32.	Internet of thing for Smart Grid Applications	02 Days	07.12.2023- 08.12.2023
33.	Regulatory Framework & Issues in Power Sector	03 Days	11.12.2023- 13.12.2023
34.	Energy Efficiency Management in Power System	03 Days	13.12.2023- 15.12.2023
35.	Operation and Maintenance (O&M) of Coal Mills & Feeders	03 Days	20.12.2023- 22.12.2023
36.	Energy Audit and loss Reduction in T&D Systems	02 Days	04.01.2024- 05.01.2024
37.	Open Access, Power Trading and Tariff- ABT Scenario	03 Days	08.01.2024- 10.01.2024
38.	Bearing Maintenance & Shaft Alignment	03 Days	17.01.2024- 19.01.2024
39.	Turbo Generator & Auxiliaries including Excitation System	03 Days	23.01.2024- 25.01.2024
40.	Energy Conservation and Energy Audit (for Generation Side)	02 Days	08.02.2024- 09.02.2024

41.	Non-Destructive Testing (NDT) and Welding Defects	03 Days	14.02.2024- 16.02.2024
42.	Power Cable Joining Techniques	03 Days	21.02.2024- 23.02.2024
43.	Environmental Impact Assessment and Environment Management Plan	03 Days	26.02.2024- 28.02.2024
44.	Energy Audit and Demand Side Management in power utilities	03 Days	04.03.2024- 06.03.2024
45.	Best Practices on O&M of Air Compressor	02 Days	07.03.2024- 08.03.2024
46.	Hydro Turbines Governing & Protection System	03 Days	13.03.2024- 15.03.2024
47.	Air Pollution and Control Technologies	03 Days	18.03.2024- 20.03.2024
48.	PGDC in Power Plant Engineering	01 Year (Nov 23-24)	November 2023-24
49.	PGDC in Renewable Energy and Grid Interface Technology	06 Months (July 23 - Jan 24)	July 23- Jan 24
50.	Short Term Training Program on “Renewable Energy Management Centre (REMC)”	03 Days	11.09.23- 13.09.23
51.	Short term Training Program on “Stress Management & Mental Well Being”	03 Days	16.10.23- 18.10.23

* Dates are tentative and may be changed according to the need of the client organization.



Two-Day capacity building workshop on ‘Energy Efficiency Financing’, at NPTI ALAPPUZHA

NPTI (EASTERN REGION), DURGAPUR

S. No.	Name of Program	Duration	Date*
A. List of Long-Term Training Programs			
1.	Post Graduate Diploma Course in Power Plant Engineering	52 Weeks	August 2023
2.	Graduate Engineering Course in Power Plant Engineering	52 Weeks	September 2023
3.	Post Graduate Diploma Course in Transmission Distribution System	26 Weeks	November 2023
4.	Post-Diploma Course in Power Plant Engineering	52 Weeks	August 2023
B. List of Short Terms Programs (1 Day – 04 Weeks)			
1.	Generator Excitation System & AVR	02 Days	03.05.2023-04.05.2023
2.	Emerging Technologies in Reducing AT&C losses	03 Days	10.05.2023-12.05.2023
3.	Recent Advancement in Turbo Generator Protection for large Power Plants	02 Days	15.05.2023-16.05.2023
4.	Conventional & Flexible Operation of Thermal Power Plants.	05 Days	05.06.2023-09.06.2023
5.	SPM, SOx & NOx Control Techniques in Thermal Power Plant	02 Days	15.06.2023-16.06.2023
6.	Recent Trends in Substation Automation	03 Days	26.06.2023-28.06.2023
7.	Power Plant Chemistry for Engineers	03 Days	03.07.2023- 05.07.2023
8.	Steam Turbine Governing	03 Days	10.07.2023-12.07.2023
9.	Boiler Efficiency & Performance Monitoring	02 Days	17.07.2023-18.07.2023
10.	Boiler Tube Failure and Case Studies	03 Days	24.07.2023-26.07.2023
11.	Thermal Power Plant Efficiency & Performance Monitoring	03 Days	02.08.2023-04.08.2023
12.	Generator Auxiliaries Including Excitation System	02 Days	21.08.2023-22.08.2023
13.	Advancements in Welding & NDT	03 Days	23.08.2023-25.08.2023
14.	Trouble Shooting of Steam Turbine	02 Days	04.09.2023-05.09.2023
15.	Boiler & Its Auxiliaries Operation	03 Days	25.09.2023-27.09.2023
16.	Condition Based Maintenance of Rotary Equipment's	03 Days	03.10.2023-05.10.2023
17.	Condition Based Maintenance Aspects of Turbo Generator	02 Days	09.10.2023-10.10.2023
18.	Integration of Renewable Energy through 24 hrs. Bidding.	02 Days	12.10.2023-13.10.2023
19.	Vibration Diagnostics and Fault Analysis	03 Days	06.11.2023-08.11.2023
20.	Operation of Steam Turbine & its Auxiliaries	03 Days	04.12.2023-06.12.2023
21.	OFC Cable laying Technology &Practices	02 Days	11.12.2023-12.12.2023
22.	Flexible Operation of Thermal Power Plants	02 Days	05.02.2024-06.02.2024
23.	Turbine RLA, Governing &Retrofitting	02 Days	08.02.2024-09.02.2024
24.	Best O&M practices for Gas Turbine	03 Days	26.02.2024-28.02.2024
i. Hydro Power and Renewable Energy Systems			
1.	Monitoring &Control for Hydro Power Plant	02 Days	12.06.2023-13.06.2023
2.	Renovation, Modernization & Up rating of Hydro Power Plant	03 Days	11.09.2023-13.09.2023
3.	Advance Automation in Hydro Power Plant	02 Days	11.01.2024-12.01.2024
4.	Dam Safety & Risk Mitigation Techniques in Hydro Power / Irrigation Projects”	02 Days	22.02.2024-23.02.2024
5.	Hydrological Studies in Hydro Power Projects with special reference to remote sensing and GIS	02 Days	06.03.2024-07.03.2024

ii. Transmission and Distribution system			
1.	Switchgear and Transformer Maintenance	05 Days	24.04.2024-28.04.2024
iii. Control and Instrumentation Engineering			
1.	Power Plant Control & Instrumentation	03 Days	20.01.2023-22.01.2023
iv. Disaster and Safety Management			
1.	Industrial Safety	02 Days	16.10.2023-17.10.2023
2.	Electrical Protection Schemes in Power Plants	05 Days	22.05.2023-26.05.2023
3.	Emergency Handling of Thermal Power Plant	02 Days	14.12.2023-15.12.2023
v. Grid Integration, Smart Grid & Smart Cities, EV and Energy Storage System			
1.	Renewable Energy & Grid Integration	02 Days	07.08.2023-08.08.2023
2.	EV & Charging Infrastructure	02 Days	29.11.2023-30.11.2023
3.	Latest Trend in Smart Grid, ICT and Power System	02 Days	18.12.2023-19.12.2023
4.	Fundamental of Battery Storage System	02 Days	18.01.2024-19.01.2024
vi. IT, CT, GIS & RS Big data Analytics and Cyber Security			
1.	Cyber Security Audit- Tools, Techniques, Procedure & Threats.	02 Days	08.01.2024-09.01.2024
vii. Power Management and Management Development Programs			
1.	Contract Management	02 Days	18.05.2023-19.05.2023
2.	Regulation, Power Purchase/Sales & ABT	02 Days	18.01.2024-19.01.2024
3.	Behavioral Science	02 Days	30.01.2024-31.01.2024
viii. Environmental Management			
1.	Echo Friendly power solutions with remote sensing and GIS	02 Days	20.07.2023-21.07.2023
x. Other Training Programs as per the Recruitment of Client on Mutually Agreed Basis			
1.	Maintenance and Protection of Transformers	02 Days	To be decided in consultation with customer organization
2.	Zero Accident Mindset to Protect Personnel Environment and Equipment	02 Days	
3.	Potential Hazards in Thermal Power Plant	02 Days	
4.	Fire Hazards in Power Plant	02 Days	
5.	Safe Handling Procedures in Mechanical/ Electrical (Rotary and Static)	02 Days	



Independence Day Celebration at NPTI Durgapur

C. List of Simulator Training Programs

S. No.	Name of Program	Duration	Date*
1.	210 MW Thermal Simulator Training	01 Week	24.04.2023-28.04.2023
2.	210 MW Thermal Simulator Training	02 Weeks	08.05.2023-19.05.2023
3.	500 MW Thermal Simulator Training	01 Week	22.05.2023-26.05.2023
4.	500 MW Thermal Simulator Training	02 Weeks	05.06.2023-16.06.2023
5.	800 MW Thermal Simulator Training	01 Week	19.06.2023-23.06.2023
6.	800 MW Thermal Simulator Training	02 Weeks	03.07.2023-14.07.2023
7.	210 MW Thermal Simulator Training	01 Week	24.07.2023-28.07.2023
8.	210 MW Thermal Simulator Training	02 Weeks	31.07.2023-11.08.2023
9.	500 MW Thermal Simulator Training	01 Week	21.08.2023-25.08.2023
10.	500 MW Thermal Simulator Training	02 Weeks	04.09.2023-15.09.2023
11.	800 MW Thermal Simulator Training	01 Week	18.09.2023-22.09.2023
12.	800 MW Thermal Simulator Training	02 Weeks	09.10.2023-20.10.2023
13.	210 MW Thermal Simulator Training	01 Week	03.10.2023-07.10.2023
14.	210 MW Thermal Simulator Training	02 Weeks	14.11.2023-25.11.2023
15.	800 MW Thermal Simulator Training	01 Week	04.12.2023-08.12.2023
16.	500 MW Thermal Simulator Training	02 Weeks	11.12.2023-22.12.2023
17.	800 MW Thermal Simulator Training	02 Weeks	08.01.2024-19.01.2024
18.	210 MW Thermal Simulator Training	01 Week	22.01.2024-27.01.2024
19.	210 MW Thermal Simulator Training	02 Weeks	05.02.2024-16.02.2024
20.	500 MW Thermal Simulator Training	01 Week	19.02.2024-23.02.2024
21.	500 MW Thermal Simulator Training	02 Weeks	04.03.2024-15.03.2024
22.	800 MW Thermal Simulator Training	01 Week	18.03.2024-22.03.2024

* Dates are tentative and may be changed according to the need of the client organization.



Simulator Training Program conducted at NPTI, Faridabad

NPTI (NORTH EASTERN REGION), GUWAHATI

S. No.	Name of Program	Duration	Date*
North Eastern Region Power System Improvement Project (NERPSIP)			
1	O&M-Distribution System	01 Week	17.04.2023 - 21.04.2023
2	O&M-Distribution System	01 Week	22.05.2023 - 26.05.2023
3	O&M-Transmission System	01 Week	12.06.2023 - 16.06.2023
4	O&M-Transmission System	01 Week	11.09.2023 - 15.09.2023
5	“Measures Relating to Safety and Electrical Supply” as per CEA Regulation 2010 for Engineers	01 Week	19.06.2023 - 23.06.2023
6	Overview of T& D System, AT&C Losses and its minimization	01 Week	24.07.2023 - 28.07.2023
Solar North East Region Power System Improvement Project (NERPSIP)			
7	Solar NERPSIP Batch-1	01 Week	05.06.2023 - 09.06.2023
8	Solar NERPSIP Batch-2	01 Week	10.07.2023 - 14.07.2023
9	Solar NERPSIP Batch-3	01 Week	21.08.2023 - 25.08.2023
Other Training Programmes			
1	Basic level Course on PSO-XI	02 Weeks	03.07.2023-22.07.2023
2	Basic level Course on PSO-XII	03 Weeks	20.11.2023- 09.12.2023
3	Specialist level course on Regulatory Framework-II	02 Weeks	18.09.2023-30.09.2023
4	Power Trading Course Batch-1	01 Week	07.08.2023-11.08.2023
5	Power Trading Course Batch-2	01 Week	04.09.2023-08.09.2023
6	Power Trading Course Batch-3	01 Week	09.10.2023-13.10.2023
7	Switchgear Operation & Maintenance	02 Days	18.12.2023-19.12.2023
8	Operation and Maintenance (O&M) of Sub-Station	01 Week	05.06.2023-09.06.2023
9	Maintenance & Protection of Transformers	02 Days	17.08.2023-18.08.2023
10	Operation and Maintenance (O&M) of Sub-Station	01 Week	04.12.2023-08.12.2023
11	Operation & Maintenance of Transformers	02 Days	10.01.2024-11.01.2024
12	Power Cables and Jointing Techniques	01 Week	15.01.2024-19.01.2024
13	Switchgear Operation & Maintenance	02 Days	22.01.2024- 23.01.2024
14	Electrical Safety and Inspection of Electrical Installations, Accident, Prevention Recent Trends	01 Week	05.02.2024-09.02.2024
15	EIA and R&R issues in Power Projects	01 Week	19.02.2024-23.02.2024
16	Small, Mini & Micro Hydro Power Generation Technologies	01 Week	04.03.2024-08.03.2024
17	Energy Audit and Demand Side Management	01 Week	11.03.2024-15.03.2024

* Dates are tentative and may be changed according to the need of the client organization.

NPTI (WESTERN REGION), NAGPUR

Sr. No.	Name of Program	Duration	Date*
i. SHORT TERM TRAINING PROGRAMS			
1	Smart Transmission & Distribution System	05 Days	10.04.2023
2	Best Practices in Boiler & Its Auxiliaries Operation	04 Days	16.05.2023
3	Control & Instrumentation for Operation Engineers	03 Days	14.06.2023
4	Thermal Power Plant Efficiency & Performance Monitoring	03 Days	21.06.2023
5	Generator & Auxiliaries Including Excitation System	03 Days	05.07.2023
6	Operation & Maintenance of HVAC Transmission System	05 Days	07.08.2023
7	Thermal Power Plant Operation	04 Days	22.08.2023
8	Electrical Protection System	04 Days	12.09.2023
9	Operation, Maintenance and Testing of Power Transformer	03 Days	25.09.2023
10	Power System & Load Dispatch	03 Days	11.10.2023
11	Energy Conservation & Energy Audit for Generation Sector	03 Days	22.11.2023
12	Condition Monitoring, Vibration Analysis and Fault Diagnostic of Rotating Machines	02 Days	29.11.2023
13	Regulatory Framework & Legal /Commercial Issues in Power Sector	02 Days	04.12.2023
14	Project Management of EHV Lines & Towers Including Sub-Stations	05 Days	11.12.2023
15	Best Practices in Operation & Maintenance in Distribution System & Electrical Safety	05 Days	18.12.2023
16	Emerging Technologies in Reducing AT&C Losses	02 Days	28.12.2023
17	Finance for Non-Finance Executives	02 Days	04.01.2024
18	Smart Metering Technologies & Applications	02 Days	11.01.2024
19	Operation & Maintenance of Sub-Station	05 Days	15.01.2024
20	Data Acquisition & Distributed Digital Control System in Thermal Power Station	03 Days	07.02.2024
21	Flue Gas Desulphurisation Technologies for TPS	02 Days	15.02.2024
22	Best Practices in Operation and Maintenance of Transmission Systems (400 KV), Earthing, Safety, Rules, Regulations, Indian Standard	05 Days	19.02.2024
23	Environmental Management - Impact of Climate changes & its Assessment	02 Days	07.03.2024
24	Power Plant Instrumentation & Automation Systems	04 Days	12.03.2024
ii. MEDIUM TERM TRAINING PROGRAMS			
1	Distribution Engineering	06 Weeks	24.04.2023
2	Control & Instrumentation for Engineers	06 Weeks	12.06.2023
3	Training Program for Supervisor/ Managerial person deployed in Power Industry	06 Weeks	09.10.2023
4	Solar Electricity Generation, Solar Water Heating System, Solar Water Pumps	08 Weeks	30.10.2023
5	Bio Waste Conversion Technology	06 Weeks	20.11.2023
6	New and Renewable Sources and Grid Integration in India	06 Weeks	08.01.2024
iii. LONG TERM TRAINING PROGRAMS			
1	Post Graduate Diploma Course in Power Plant Engineering PGDC in PPE	52 Weeks	04.09.2023
2	Graduate Engineers Course (Power Plant Engineering) (Regular)	52 Weeks	04.09.2023
3	Post Graduate Diploma Course in Power Plant Engineering (Winter)	52 Weeks	04.03.2024

4	Graduate Engineers Course (Power Plant Engineering) (Winter)	52 Weeks	04.03.2024
5	Post Graduate Diploma Course in Transmission & Distribution Systems.	26 Weeks	04.09.2023
6	Post Diploma Course in Power Plant Engineering (Regular) PDC in PPE	52 Weeks	04.09.2023
7	Post Diploma Course in Power Plant Engineering (Winter) PDC in PPE	52 Weeks	04.03.2024
8	Post Diploma Course in Renewable Energy including Solar Technology	26 Weeks	04.09.2023
iv.	FOSSIL FUEL POWER PLANT SIMULATOR TRAINING PROGRAMS		
1	210 MW/500 MW/800 MW Multi-Functional Simulator Training	02 Weeks	17.04.2023
2	210 MW/500 MW/800 MW Multi-Functional Simulator Training		08.05.2023
3	210 MW/500 MW/800 MW Multi-Functional Simulator Training		05.06.2023
4	210 MW/500 MW/800 MW Multi-Functional Simulator Training		17.07.2023
5	210 MW/500 MW/800 MW Multi-Functional Simulator Training		21.08.2023
6	210 MW/500 MW/800 MW Multi-Functional Simulator Training		11.09.2023
7	210 MW/500 MW/800 MW Multi-Functional Simulator Training		09.10.2023
8	210 MW/500 MW/800 MW Multi-Functional Simulator Training		20.11.2023
9	210 MW/500 MW/800 MW Multi-Functional Simulator Training		18.12.2023
10	210 MW/500 MW/800 MW Multi-Functional Simulator Training		08.01.2024
11	210 MW/500 MW/800 MW Multi-Functional Simulator Training		12.02.2024
12	210 MW/500 MW/800 MW Multi-Functional Simulator Training		11.03.2024
v.	SEMINARS		
1	New Technologies in Indian Power Transmission sector - Opportunities and Challenges	02 Days	21.09.2023
2	Renewable Energy Technologies - Indian Perspective and Challenges	01 Day	04.01.2024

* Dates are tentative and may be changed according to the need of the client organization.



Training & Capacity Building Program under Revamped Distribution Sector Scheme (RDSS) at NPTI Nagpur

NPTI, SHIVPURI

S.No.	Name of Program	Duration	Date*
1.	Modern Trends in Renewable Energy Generation & Grid Integration	03 Days	18.04.2023-20.04.2023
2.	Solar Plant & Grid Integrations	03 Days	25.04.2023-27.04.2023
3.	Best O&M Practices of Switch Gear & Transformer	03 Days	10.05.2023-12.05.2023
4.	GIS & Remote Sensing Application in Hydro Power Projects	03 Days	16.05.2023-18.05.2023
5.	Maintenance Planning & Cost control objectives	03 Days	06.06.2023-08.06.2023
6.	Planning of Pump Storage Schemes for Energy Storage & Grid Stability	03 Days	13.06.2023-15.06.2023
7.	Electricity Act 2003 and Power Plant Safety	02 Days	04.07.2023-05.07.2023
8.	Energy Audit & Loss Reduction in T&D	03 Days	11.07.2023-13.07.2023
9.	Commercial & Regulatory aspects of Power Sector	03 Days	18.07.2023-20.07.2023
10	Advance Hydro Turbines	01 Week	24.07.2023-28.07.2023
11	Regulatory Framework and Operation of Power Station	02 Days	02.08.2023-03.08.2023
12	Flexible Operation of TPP, Multiple fuel firing and latest guidelines	03 Days	22.08.2023-24.08.2023
13	Flexible Power Generation, Digital Governing, Control and Emergency Handling of Super Critical Thermal Power Plant	03 Days	12.09.2023-14.09.2023
14	Renewable Energy- Emerging Technology	03 Days	20.09.2023-22.09.2023
15	Monitoring of Transformer oils, their Reconditioning & Reclamation	02 Days	25.09.2023-26.09.2023
16	Environmental issues and FGD Technology	03 Days	10.10.2023-12.10.2023
17	Supercritical Power Plant Operation, Case Studies and Flexibilisation.	03 Days	17.10.2023-19.10.2023
18	Planning of Pump Storage for Energy Storage & Grid Stability	02 Days	30.10.2023-31.10.2023
19	O&M of Valves & Pumps in Power Plants	03 Days	07.11.2023-09.11.2023
20	Reactive Power Management	03 Days	21.11.2023-22.11.2023
21	Smart Grid Technologies, Internet of Things and Cyber Security	02 Days	29.11.2023-30.11.2023
22	Testing of Generator, Transformers, Reactors, HV Cables, Switchyard Equipment's, Transformer oil & Testing Equipment's	01 Week	04.12.2023-08.12.2023
23	Cost reduction by Energy Auditing, Management & Design of Solar Energy System	04 Days	11.12.2023-14.12.2023
24	Hydraulic Turbine Testing	03 Days	19.12.2023-21.12.2023
25	Improve Operational & Financial efficiency in DISCOM	03 Days	02.01.2024-04.01.2024
26	Emerging trends in excitation system & AVR	03 Days	09.01.2024-11.01.2024
27	Water Chemistry & Boiler Tube Leakage in Thermal Power Plants	03 Days	16.01.2024-18.01.2024
28	O&M of Transformer (Power/Distribution) and case studies	03 Days	23.01.2024-25.01.2024
29	Excitation System & Generator Protection in Power Plant	03 Days	30.01.2024-01.02.2024
30	Advance Solar Power Technologies	02 Days	06.02.2024-07.02.2024
31	Modern concept of Wind Power Technology	03 Days	07.02.2024-08.02.2024

32	Emerging Trends in Renewable Energy	01 Week	07.02.2024-08.02.2024
33	Renovation & Modernization of Power Plants	02 Days	13.02.2024-15.02.2024
34	Condition Monitoring and Fault Diagnostics of Rotating Machines	03 Days	14.02.2024-15.02.2024
35	Power System Protection Relay testing, Protection Relays & Fault Analysis	03 Days	20.02.2024-22.02.2024
36	O&M, Testing of Power Transformers and HT Circuit Breakers	03 Days	27.02.2024-29.02.2024
37	Regenerative Feed heating System	03 Days	05.03.2024-06.03.2024
38	Electro Static precipitator- O&M	02 Days	06.03.2024-07.03.2024
39	Switch Gear (HT/LT) - O&M	03 Days	12.03.2024-14.03.2024
40	O&M of Substation	02 Days	13.03.2024-14.03.2024
41	Fire Prevention, Protection and Safety	03 Days	19.03.2024-21.03.2024
42	Regulatory Framework In power Sector	02 Days	20.03.2024-21.03.2024
43	Block Chain Technology	02 Days	20.03.2024-21.03.2024
44	Advance Energy Storage Technologies	02 Days	26.03.2024-27.03.2024
45	Latest trends in Wind Power Technologies	01 Week	25.03.2024-29.03.2024
46	Flexible Transmission System (FACTs)	01 Week	25.03.2024-29.03.2024

* Dates are tentative and may be changed according to the need of the client organization.

Training Programs for Power System Operators

Sl. No.	Course	Level	Duration	Dates	Venue
1	Power System Operation	Basic	3 weeks (18 days)	05.06.2023 – 24.06.2023	NPTI (ER), Durgapur
				21.08.2023 – 09.09.2023	NPTI (PSTI), Bangalore
				20.11.2023 – 09.12.2023	NPTI (NER), Guwahati
				08.01.2024 – 27.01.2024	NPTI (CO), Faridabad
				19.02.2024 - 09.03.2024	NPTI (NR), Badarpur
2	Refresher – I (PSO) online	Basic	6 Days	18.03.2024 – 23.03.2024	NPTI (PSTI), Bangalore
3	Power Market Specialist	Specialist	2 Weeks (12 days)	31.07.2023 - 12.08.2023	NPTI (CO), Faridabad
4	Power System Reliability	Specialist	2 Weeks (12 days)	15.05.2023 – 27.05.2023	NPTI (PSTI), Bangalore
5	Refresher – I (PSR) online	Specialist	6 Days	10.07.2023 – 15.07.2023	NPTI (PSTI), Bangalore
6	Regulatory Framework in Power Sector	Specialist	2 Weeks (12 days)	25.09.2023 – 07.10.2023	NPTI (NER), Guwahati
				04.03.2024 – 16.03.2024	NPTI (CO), Faridabad
7	Renewable Energy Sources and Grid Integration	Specialist	2 Weeks (12 days)	09.10.2023 – 21.10.2023	NPTI (NR), Badarpur
		Specialist	2 Weeks (12 days)	30.10.2023 – 11.11.2023	NPTI, Allapuzha
8	Power System Logistics	Specialist	2 Weeks (12 days)	11.12.2023 – 23.12.2023	NPTI (PSTI), Bangalore
9	Behavioural & Soft Skills Development	Basic	3 Days	05.02.2024 – 07.02.2024	NPTI (CO), Faridabad

NPTI Publications

To dissipate the knowledge among the technical domain, NPTI publishes a huge number of books, manuals, notes etc. These resource materials are prepared by domain experts and are meant to give in depth exposure and knowledge to the readers in related fields.

NPTI has published around 100 Training Manuals for different courses.

S.No.	Title	Price (₹)	Price (US\$)
A) THERMAL POWER PLANT			
1	Thermal Power Plant Familiarisation (Vol. I)	400	20
2	Thermal Power Plant Familiarisation (Vol. II)	600	30
3	Thermal Power Plant Familiarisation (Vol. III)	425	21
4	Thermal Power Plant Familiarisation (Vol. IV)	400	20
5	Thermal Power Plant Operation	600	30
6	Thermal Power Plant Metallurgy	175	09
7	Ash Handling	250	13
8	Fuel Handling System Operation (Hindi)	250	13
9	Schematic Diagram (210 MW Thermal)	350	18
10	Fuel Handling System Operation	250	13
11	Environmental Management in Power Sector	600	30
12	Thermal Power Plant Performance and Efficiency Monitoring	425	21
13	Thermal Power Plant Chemistry	350	18
14	500 MW Fossil Fuel Power Plant Simulator Operating Procedures	550	28
15	Atmospheric F B C Boilers	250	13
16	Boiler Feed Pump Design, Construction & Operation	250	13
17	Circulating F B C Technology	250	13
18	Power Station Safety	350	18
19	Safety in Power Station (Hindi)	200	10
20	210 MW Thermal Schematic Diagrams (Combustion Engineering Boiler & KWU Turbine)	200	10
21	HP - LP Bypass System	350	18
22	Pulverisers and Feeders	200	10
23	Pulverised Fuel Fired Boilers	350	18
24	KWU Steam Turbine Governing and Protection System	425	21
25	210 MW Turbo Generator Operation and Stability	200	10
26	Lubrication Systems for Power Station	300	15
27	210 MW Simulator Training	550	28
28	Steam Turbines for Power Generation	650	33
29	Vibration	200	10
B) HYDRO POWER PLANT			
30	Hydro Power Plant Familiarisation	400	20
31	Hydro Power 2000: An Indian Perspective	1000	50
32	Silting Problems in Hydro Power Plants & Their Possible Solutions	495	25
33	Up rating and Refurbishment of Hydro Power Plants	495	25
34	Hydro Environment Interface	950	48
35	Small Hydro	595	30

C) COMBINED CYCLE GAS TURBINE POWER PLANT			
36	Gas Turbine and Combined Cycle Power Plant	400	20
D) CONTROLS AND INSTRUMENTATION			
37	Control & Instrumentation (Vol. I)	600	30
38	Control & Instrumentation (Vol. II)	425	21
39	Control & Instrumentation (Vol. III)	350	18
40	Data Acquisition System & Distributed Digital Control	250	13
41	Condition Monitoring of Power Transformers	250	13
42	Programable Logic Controller & Fuzzy Logic Controller and their Applications in Instrumentation	250	13
43	Control Valves Selection and Sizing	300	15
44	Programable Logic Controls	50	18
E) REGULATORY ISSUES			
45	Journal on ERC Orders-2nd Edition	595	30
F) MAINTENANCE MANUALS			
46	Motor Maintenance	200	10
47	Battery Maintenance	250	13
48	Battery Maintenance (Hindi)	250	13
49	Valve Maintenance	350	18
50	Pump Maintenance	400	20
51	Pump Anurakshan (Hindi)	350	18
52	Relay Maintenance	200	10
53	Maintenance Planning & Cost Control	250	13
54	Maintenance of Power Transformers	350	18
G) POWER PLANT AUXILIARIES			
55	Fans & Heaters	425	21
56	Fan & Heater (Hindi)	425	21
57	Compressor & Compressed Air	200	10
58	Valves	400	20
59	Power Station Pumps	350	18
H) POWER SYSTEMS MANUALS			
60	Electrical Protection System	350	18
61	Power System Studies and Load Dispatch	350	18
62	Modernisation of Power Distribution	595	30
63	Power Transmission & Distribution	495	25
64	Load Management in Power Sector	400	20
65	Static Excitation System	250	13
66	Energising Your Power Utility	395	20
67	Basics of Electric Power System	200	10
I) SUB STATION MANUALS			
68	O&M of EHV Sub-Stations Vol. I	250	13
69	O&M of EHV Sub-Stations Vol. II	200	10
J) RENEWABLE ENERGY SOURCES			
70	Renewable Energy	595	30
71	Non-Conventional Power Plants	350	18

K) ENERGY AUDIT MANUAL			
72	Manual on Energy Conversation and Management	250	13
73	Energy Audit and DSM in Power Utilities	400	20
L) OTHER MANUALS			
74	Computer Ka Aadharbhoot Gyan (Hindi)	250	13
75	National Training Policy for the Power Sector	200	10
76	Rashtirya Prashikshan Neeti (Hindi)	200	10
77	Environmental Pollution & Pollution Control	250	13
78	Selected Readings on Finance for Non-Finance Executives	260	13
79	Overview of Indian Power Sector-Organizational Setup	180	09
80	Inventory and Store Management	130	07
81	Selected Readings on General Management	240	12
82	Selected Readings on Communication in Power Sector	270	14
83	Selected Readings on "Power System Communication"	110	06
84	Procurement Procedures & Contracting	500	25
85	Overview of Indian Power Sector - Regulatory Framework	350	18
86	Boiler Tube Failure Analysis and Prevention	160	08
87	Power Distribution Franchisee	360	18
88	CSR and Hydro Sector	230	12
89	Rehabilitation and Resettlement "Challenges in Hydro Sector"	260	13
90	Distribution Franchisee Business: A Case Study of Nagpur	400	20
91	Management of Transmission System	620	32
92	Hydro Power Plant Familiarisation (Chetram Meena)	500	25
93	Fundamentals of O& M of Hydro Power Plant (Vol. I)	190	10
94	Fundamentals of O& M of Hydro Power Plant (Vol. II)	300	15
95	Fundamentals of O& M of Hydro Power Plant (Vol. III)	260	13
96	Fundamentals of O& M of Hydro Power Plant (Vol. IV)	160	08
97	Fundamentals of O& M of Hydro Power Plant (Vol. V)	270	14
98	EHV Power Transformers: Reliability Issues	150	08
99	Energy Audit and Energy Conservation Techniques for Thermal Power Stations	530	27



FEE STRUCTURE FOR VARIOUS TRAINING PROGRAMS AT NPTI FOR THE YEAR 2023-24

International Training Programs Fee

S.No.	Course	Course fee (All Foreign Countries) (2022-23)
1.	Regular Course on Power Plant Engineering	For SAARC Countries US \$ 400 per week per participant subject to maximum of US \$ 10000 up to 52 weeks duration
		For other than SAARC Countries US \$ 800 per week per participant subject to maximum of US \$ 20000 up to 52 weeks duration
2.	Simulator Training	For SAARC Countries US \$ 800 per week per participant
		For other than SAARC Countries US \$ 1000 per week per participant
3.	Boarding & Lodging in NPTI Hostel	US \$ 500 per week per participant (AC Rooms on single sharing basis)
4.	Specialized need-based Tailor-made courses	As per estimate

Domestic Training Programs Fee

A. Training Programs at Hot Line Training Centre (HLTC), BENGALURU

S. No.	Name of Program	Duration	*Training Fee (₹) per participant
1	Live Line Maintenance Techniques (LLMT) using Hot Stick Method	11 weeks	2,00,000
2	Live Line Maintenance Techniques (LLMT) using Bare Hand method (BHM)	05 weeks	1,60,000
3	Switchyard Maintenance Techniques using LLMT for Linemen/ Supervisors	04 weeks	1,25,000
4	Awareness Course for Executives in Hot Line Activities	01 week	25,000
5	Live Line Punctured Insulator Detection (PID)	01 week	26,000
6	Live Line Insulator Washing Techniques (LLIW)	04 days	26,000

*Training fee includes Boarding and Lodging charges

NOTE: GST or any other tax as applicable shall be charged extra on various components like training fee, Boarding & Lodging charges, Transportation charges etc.

B. Simulator Training Fee Structure

Name of the Simulator	Duration	*Training Fee (₹) / Participant
Thermal Simulator- 210MW/500MW/800MW**	1 week	25,000
CCGT 430 MW/ CCPP 550 MW Simulator	1 week	25,000
Hydro Simulator 250 MW	1 week	20,000
Power System Training Simulator	1 week	24,000
SCADA & Smart Grid	1 week	25,000
Multi-Functional Simulator		
a) Combo Offer (Thermal- 210 MW/500MW/800 MW)**	3 weeks	60,000
b) Integrated Offer of 5 Simulators (Thermal- 210 MW/500MW/800 MW**, Hydro 250 MW and SCADA & Smart Grid)	5 weeks	90,000
c) Integrated Offer of 6 Simulators (Thermal- 210 MW/500MW/800 MW**, CCPP-430 MW/550 MW, Hydro 250 MW and SCADA & Smart Grid)	6 weeks	1,00,000

* Training Fee Includes Tea/ Snacks and working lunch

** Supercritical Technology Training of 660 MW Power Plant may also be imparted

C. Industry Interfaced / Long Term Courses (Period 17 to 52 Weeks)

S.No.	Name of Program	Duration	Training Fee (₹) per participant
1	Post Graduate Diploma Course (PGDC) in Power Plant Engineering*		
	i) Non-sponsored candidates	52 weeks	2,30,000
2	ii) Sponsored candidates	52 weeks	3,60,000
	Post Graduate Diploma Course (PGDC) in Renewable Energy and Grid Interface Technologies		
3	i) Non-sponsored candidates	52 weeks	2,30,000
	ii) Sponsored candidates	52 weeks	3,60,000
4	Post Graduate Diploma Course (PGDC) in Smart Grid Technologies		
	i) Non-sponsored candidates	52 weeks	2,30,000
5	ii) Sponsored candidates	52 weeks	3,60,000
	Post Graduate Diploma Course (PGDC) in Power System Operation		
6	i) Non-sponsored candidates	52 weeks	2,30,000
	ii) Sponsored candidates	52 weeks	3,60,000
7	Post Graduate Diploma Course (PGDC) in Hydro Power Plant Engineering*		
	i) Non-sponsored candidates	39 weeks	1,75,000
8	ii) Sponsored candidates	39 weeks	2,00,000
	Post Graduate Diploma Course (PGDC) in Transmission and Distribution System*		
9	i) Non-sponsored candidates	26 weeks	1,45,000
	ii) Sponsored candidates	26 weeks	1,90,000
10	Post Diploma Course (PDC) in Thermal Power Plant Engineering*		
	i) Non-sponsored candidates	52 weeks	1,45,000
	ii) Sponsored candidates	52 weeks	2,20,000
	Post Diploma Courses (PDC) in Hydro Power Plant Engineering		
	i) Non-sponsored candidates	26 weeks	80,000
	ii) Sponsored candidates	26 weeks	1,35,000
	Post Diploma Course (PDC) in Renewable Energy including Solar Technology		
	i) Non-sponsored candidates	26 weeks	80,000
	ii) Sponsored candidates	26 weeks	1,35,000
	Graduate Engineers (Power Plant Engineering)		
	i) Non-sponsored candidates	52 weeks	2,30,000
	ii) Sponsored candidates	52 weeks	3,60,000

The training fee for industry interfaced/long term courses/programs (PGDC, PDC etc.- in Table-C) shall be exclusive of GST. GST will be charge extra. No extra fee towards placement and examination fee shall be charged to the trainees.

D. Medium Term Courses (Period 5 to 16 Weeks)

S.No.	Name of Program	Duration	Training Fee (₹) per participant
11	Specialized Courses	16 weeks	1,44,000
12	Specialized Courses	15 weeks	1,38,000
13	Specialized Courses	14 weeks	1,32,000
14	Specialized Courses	13 weeks	1,26,000
15	Specialized Courses	12 weeks	1,20,000
16	Specialized Courses	11 weeks	1,14,000
17	Specialized Courses	10 weeks	1,08,000
18	Specialized Courses	09 weeks	1,01,000
19	Specialized Courses	08 weeks	94,000
20	Specialized Courses	07 weeks	87,000
21	Specialized Courses	06 weeks	78,000
22	Specialized Courses	05 weeks	69,000

E. Short Term Courses♦(Period 1 Day to 4 Weeks)

S.No.	Name of Program	Duration	Training Fee (₹) per participant
23	Specialized Courses	04 weeks	57,000
24	Specialized Courses	03 weeks	45,000
25	Specialized Courses	02 weeks	33,000
26	Specialized Courses	01 week	18,000
27	Specialized Courses	04 days	16,000
28	Specialized Courses	03 days	13,000
29	Specialized Courses	02 days	9,000
30	Specialized Courses	01 day	5,000
31	On-site/On-plant training programs	01 week	30,000
32	On-site/On-plant training programs	04 days	27,500
33	On-site/On-plant training programs	03 days	22,000
34	for On-site/On-plant training programs	02 days	15,500
35	for On-site/On-plant training programs	01 day	8,500

♦ Includes Thermal Training Simulator Fee of 2 weeks/ CCGT Simulator Training Fee of 2 weeks/ Hydel Simulator Training Fees of 1 week/ Power System Training Simulator Fee of 1 week as applicable.

♦ In respect of short term courses, fee is inclusive of tea/ snacks and working lunch. In respect of other courses, fee is exclusive of tea/ snacks and working lunch. GST shall be extra.

Note: A uniform discount of 30% on Existing training fee of all the regular training programs shall be offered for online programs, this discount for online programs shall remain uniform for all the NPTI Institutes/Centres. For specialized courses/ on-site/ on-plant training programs, minimum number of participants should be 10. If number of participants is less than 10, then fee for 10 participants will be charged.

F. Cyber Security Programs Fee Structure♦

S.No.	Name of Program	Duration	Training Fee (₹) per participant (Including GST)
1	Basic level-Training and Certification (Online)	2 weeks	46,020
2	Intermediate level-Training and Certification	2 weeks	59,000
3	Advance level-Training and Certification	2 weeks	75,000

♦Boarding, lodging and transportation charges will be extra for intermediate and advance level programs.

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ACTIVITIES @ NPTI





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अमृत महोत्सव

NATIONAL POWER TRAINING INSTITUTE

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TRAINING CALENDAR

प्रशिक्षण कैलेंडर

2023 - 24