# TRAINING CALENDAR 2023-24







# **Central Board of Irrigation & Power**

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#### **MESSAGE FROM SECRETARY**



Central Board of Irrigation & Power (CBIP) is a 96 years old premier institution and a knowledge bank involved in the dissemination of technical knowledge & professional experiences to help the Indian Engineers/Professionals for dissemination of technical knowledge in Water Resources, Power, Renewable Energy, and allied sectors in the country to update their knowledge and gain practical know-how. It has served these sectors with great distinction and has attained glorious heights in the past 96 years with the guidance of its Executive Board and excellent support of Member Organizations.

The present environment requires continuous up-gradation of capabilities at the individual & organizational levels to remain competitive. The professionals need to

redefine their skills & mindset which is important to keep pace with the technological advancement globally. Moreover, it is imperative for the technical professionals to keep on learning for which the training inputs are required by them at every stage of their career viz. induction training to groom them efficiently and later on through refresher training programs to tackle the day-to-day problems in the management of Water, Power, Renewable Energy, and allied sectors. CBIP has always been striving to provide the best of its services in the capacity building/HR development programs to contribute to the development of these crucial sectors of Water, Power, Renewable Energy, and allied sectors. It is playing an important role to provide opportunities to the professionals for getting an environment where they can always upgrade and enhance their knowledge/ skills through well-organized conferences and training programs.

Realizing the constraints being faced by the professionals in leaving their stations/headquarters for attending various training programs organized by CBIP at New Delhi and other places, CBIP has also taken the initiative to provide Door Step/Onsite training with the aim to provide training and develop skills of various professionals of the Organizations dealing in Water, Power, Renewable Energy, and allied sector.

CBIP has so far organized over 1800 Seminars, Conferences, Workshops, and Training Courses, both at National and International levels, in Water, Power, Renewable Energy, and allied Sectors, attended by over three lakh delegates. CBIP has also brought out 1635 Journals and 1510 valuable Manuals, Technical Reports, Guidelines which are the outcome of the excellent and valuable contribution by Sr. Experts based on their practical experience.

In its earnest effort, CBIP has conceptualized conferences and training programs to be organized during the year 2023-24, the details of which are given in this training calendar. The topics of conferences/ training programs have been identified keeping in view the problems being faced by the various departments/ organizations for accelerated development of these sectors. In addition to the listed programs, CBIP also conducts tailor-made training programs as per the requirements of various organizations.

We would further like to bring out that CBIP has been providing a common platform through various conferences/seminars etc. for the exchange of technical knowledge and has also been paving way for introducing the latest/state-of-art technologies which have helped various organizations in their accelerated development.

We request all the organizations to take full advantage of the conferences and training programs which we are planning to organize during 2023-24 by deputing their professionals including young professionals and women engineers for participating in these programs. We are sure that the technical knowledge of the professionals participating in these programs will go a long way in benefitting the organization in general and participants in particular.

A.K. Dinkar Secretary, CBIP



# CONFERENCES, TUTORIALS AND TRAINING PROGRAMS

# 2023-24

### **CONTENTS**

SI. No.	Description	Page No.
1	Message from Secretary	2
2	CBIP Profile	5
3	Conferences, Tutorials and Training Programs 2023-24	
Α	A. Water Resources, Hydropower and Allied Sectors	
	A-1 International Conferences (Physical)	8
	A-2 Training Programs/Workshop (Online)	8
	A-3 Training Programs (Door step/Short term Program) – Virtual/Physical	
	A-3 (i) Dams and Hydropower	9
	A-3 (ii) Tunnel and Underground	9
	A-3 (iii) Geosynthetics	9
	A-3 (iv) Miscellaneous Topics	9
В	B. Power and Renewable Energy Sectors	
	B-1 International Conferences (Physical)	10
	B-2 National Conferences (Physical)	10
	B-3 Training Programs/Workshop	10
	B-4 Training Programs (Door step/Short term Program) – Virtual/Physical	11
	(i) Hydro Power Generation (E&M)	11
	(ii) Power Generation (Thermal)	12
	(iii) Transmission System	12
	(iv) Distribution System	13
	B-5 Renewable Energy Sector	13
С	C. CBIP Centre of Excellence, Gurugram	14
	C-1. Training Programs offered at Gurugram	14
	C-2 Training Programs (Physical)	15
4	Training Programs/Tutorials/Conferences organized during 2022–23	
	4.1 Water Resources, Hydropower and Allied Sectors	16
	4.2 Power and Renewable Energy Sectors	16
	4.3 Training Programs by CBIP Centre of Excellence, Gurugram	18
D	Technical Audit of Power Stations	20

Put your Time, Efforts & Money in Training & Skill Development for Development of Sector & Nation



### **CBIP OFFICES Past**



CBIP office, at Curzon Road, New Delhi (1952-1980)

#### **Present**



CBIP office at Chanakyapuri, New Delhi (1980 onwards)



CBIP Centre of Excellence at Gurgaon (2013 onwards) Sector 32, Plot No. 21



CBIP Centre of Excellence at Gurgaon (2020 onwards) Sector 32, Plot No. 09

### **INFRASTRUCTURE FACILITIES AT CBIP**

#### At Malcha Marg, New Delhi (Head Office)

- · Conference Hall
  - Training Hall
- Board Room

#### At CoE, Gurugram

- 4 state-of-the-art Class Rooms
- Library, with digitized version of books and journals
- Various Laboratories like Electrical Lab, Mechanical Lab and C&I Lab, having various associated tools including safety equipments, testing equipments, working models etc.
- Computer lab connected through LAN with wi-fi facilities

#### **CBIP PROFILE**





Mr. D.G. Harris, C.I.E. (Government of India), President; Mr. C.S.C. Harrison, C.I.E. (Sukkur Barrage and Canals); Mr. R.P. Hadow, C.I.E., (Punjab); and others members during First Meeting of the Board 1930-31



The then Prime Minister of India, Late Pandit Jawahar Lal Nehru arriving to inaugurate the Silver Jubilee Session of the CBIP in 1952



Hon'ble President of India Dr. Rajendra Prasad inaugurated the 30th (1959) Annual Session of the Board held at Vigyan Bhavan, New Delhi from 23rd - 24th November. 1959.



Late Dr. S. Radhakrishnan, the then President of India, arriving on the occasion of 6th Congress on Irrigation and Drainage in 1966



Her Excellency the President of India, Smt. Pratibha Devisingh Patil addressed the participants through recorded video during World Tunnel Congress organised by CBIP on 21-24 September 2008, Agra

#### **GENESIS AND GROWTH**

- Central Board of Irrigation and Power (CBIP), a premier institution was constituted by Govt. of India in 1927.
- CBIP, is serving the Nation in the disciplines of Water Resources, Power and Renewable Energy Sectors for more than 94 years.
- It is an exchange and knowledge bank for dissemination of technical knowledge & professional excellence to help the engineers/ professionals to update their knowledge and gain practical know-how.
- Silver Jubilee, Golden Jubilee and Diamond Jubilee celebrations of the Board were graced by the then Prime Minister of India, Pt. Jawaharlal Nehru (in 1952), Acting President Shri B.D. Jatti (in 1977) and the then Prime Minister Shri Rajiv Gandhi (in 1987), respectively.

#### **MAIN OBJECTIVES**

- Dissemination of technical knowledge by CBIP through various modes, such as :
- Organizing National and International Conferences, Symposiums, Seminars and Workshops etc.
- Publication of technical documents e.g., manuals, technical reports, guidelines and journals etc.
- To impart training to the engineers/professionals.
- · To provide research and professional excellence.
- · Recognisation of technical excellence through annual awards
- To provide information about technological developments and to provide online information to the professionals.
- To provide linkages to Indian Professionals with their counterparts in other countries.
- Collection, compilation & analysis of technical data at national as well as global level

#### **ORGANISATION OF THE BOARD**

- The affairs of the Board are administered, directed and controlled by an Executive Committee consisting of President, three Vice Presidents (Water Resources, Power & Renewable Energy) and one representative from each member organization.
- The Executive Committee presently comprises of more than 260 members.
- The General Body presently comprises of more than 3000 members of the level of Chief Engineers/equivalent & above
- All Water Resources Departments, State Utilities, PSUs, CPSUs, Regulatory Commissions and major Pvt Sectors Organisations from Water Resources/ Power/Renewable Energy are the members of CBIP
- More than 300 retired professionals are also enrolled as life members of CBIP.
- Member organizations make annual contributions to CBIP for providing technical services to them.

## BOARD'S ASSOCIATION WITH INTERNATIONAL AND NATIONAL ORGANIZATIONS

#### **Power Sector**

- International Council on Large Electric System (CIGRE), India has got seat in Steering Committee, the top decision making body of CIGRE. India also got chairmanship for CIGRE - Asia Oceania Regional Council from 2018-20.
- International Council for Electricity Distribution (CIRED)
- · International Hydropower Association (IHA)
- International Association on Electricity Generation, Transmission & Distribution (AARO)
- Society of Power Engineers (SPE)

#### **Water Resources Sector**

- International Commission on Large Dams (ICOLD), Shri D.K. Sharma, President, Indian National Committee on Large Dams (INCOLD) has been elected as Vice President, International Commission of Large Dams (ICOLD).
- International Tunnelling & Underground Space Association of India (ITA)
- International Society for Rock Mechanics and Rock Engineering (ISRM)
- International Geosynthetics Society (IGS)
- World Water Council (WWC)
- International Water Resources Association (IWRA)



#### Renewable Energy

International Association for Small Hydro (IASH)

#### **ACTIVITIES / SERVICES**

#### **Conferences**

 Held more than 2000 Conferences in Water Resources, Power and Renewable Energy Sectors attended by more than 3,00,000 delegates.

#### **Publication of Technical Documents**

- Brought out more than 5000 publications, including Manuals, Technical Reports, Guidelines and Journals.
- Providing free access of CBIP Publications to more than 35,000 officers of Member organizations including Government departments. PSU's, Central & State Power utilities, Engineering Colleges. Research Institutes and Leading Private Sector Organizations etc.

#### **Training Activities**

- CBIP has imparted trainings for more than 1,50,000 mandays to various professionals in the country
- Considering massive requirement of trained manpower in India, CBIP has established a Centre of Excellence at Gurugram (Haryana), in the year 2013, for imparting long/short term training.
- CBIP has been recognized by Ministry of Power, Government of India, as Category-1 institute for providing training for skill upgrade in the field of Hydro, Thermal, Transmission & Distribution and Power Management, Renewable Energy, including Solar Power Development.
- To fulfill the objective of Government of India for imparting skill development courses, CBIP has been recognized as a Training Provider by NSDC, PSSC, SCGJ
- CBIP provides Post Graduate Diploma in Transmission and Distribution in Engineering and Post Graduate Diploma in Thermal Engineering to B. Tech. Engineers.
- CBIP has recently undertaken construction of another building at Gurgaon as part of extension of its Centre of Execellence, in Gurgaon (Haryana).

#### **Research and Development**

- CBIP had been coordinating and monitoring R&D activities, assisting in specific case studies/problems, documentation and dissemination of the results/findings of Research Projects to the practising engineers under the Research Scheme on Power (RSOP), Research Scheme on River Valley Projects (RSRVP), Research Scheme on Flood Control (RSFC) and Research Scheme on Plasticulture Development (RSPD). Funds for Research Schemes under RSRVP and RSFC were provided by Ministry of Water Resources and for RSOP by Ministry of Power.
- CBIP is still carring out research on various important topics and it has also been recognised by the Department of Science and Technology as Scientific and Industrial Research Organisation (SIRO).

#### **DOORSTEP TRAINING**

- CBIP has taken initiative to provide Door Step/Onsite training with the aim to provide training and develop skills of various professionals of the Organizations dealing in Water Resources, Power as well as Renewable Sectors. This include Centre, State, PSUs and leading Private organisations.
- Recently CBIP has conducted more than 200 doorstep training programmes at the project sites and Headquarters of various organisations. This is in great demand by Member Organisations.

#### **HANDS ON TRAINING**

CBIP, realizing the importance of competency development and with the aim
to create large reservoir of highly qualified manpower in all fields related to
engineering, technology & technology management, has started providing
hands on training to the professionals for skill development. Jointly with
ABB India Ltd.

#### **CONSULTANCY SERVICES**

- CBIP undertakes consultancy jobs in various areas related to Power, Water Resources and Renewable Energy Sectors.
  - Manpower Planning; Preparation of O&M Manuals; Recruitment of Technical and Non-technical staff on turnkey basis.
  - Maintenance Audit of Hydro Stations and Sub-stations



Shri Narendra Modi, Hon'ble Chief Minister of Gujarat, inaugurated Swarnim Seminar on "Water for Inclusive Growth" on 22nd March, 2011, organised by Sardar Sarovar Narmada Nigam Limited, in association with CBIP at Gujarat



Dr. Manmohan Singh, Hon'ble Prime Minister of India, inaugurated the first International Event in series of India Water Week, on 10th-14 April. 2012. New Delhi



Shri Gajendra Singh Shekhawat, Hon'ble Minister, Ministry of Jal Shakti, Government of India, Lighting the lamp during inaugural session during ICOLD Symposium on 24-27 February 2021, New Delhi



Shri Bhagwanth Khuba, Hon'ble Minister of State for New and Renewable Energy, Chemicals and Fertilizer; Gol, inaugurating the International Conference on Hydrogen Energy on 24th November 2021. New Delhi



Shri Raj Kumar Singh, Hon'ble Minister of Power and New & Renewable Energy, Government of India; with the invitees during CBIP Day Celebrations on 3rd March 2023, New Delhi



# CONFERENCES, TUTORIALS AND TRAINING PROGRAMS 2023-24

- A WATER RESOURCES, HYDROPOWER AND ALLIED SECTORS
- B POWER AND RENEWABLE ENERGY SECTOR
- C TRAINING PROGRAMS OFFERED BY CBIP CENTRE OF EXCELLENCE AT GURUGRAM
- **D TECHNICAL AUDIT**



# CONFERENCES, TUTORIALS AND TRAINING PROGRAMS 2023-24

### A. Water Resources, Hydropower and Allied Sectors \*

SI.	Programs	TITLE OF THE EVENT	Dates/ Venue
No.	Code	A-1 INTERNATIONAL / NATIONAL CONFERENCES	
1	WRC-1	International conference on EPC contracts management – Challenges and Issues,	July/August 2023 at Mumbai
2	WRC-2	International Conference on Tunnelling for Infrastructure Projects,	September/October 2023, at Rishikesh/ Guwahati
3	WRC-4	National Conference on Role of Hydro Power in Achieving Net Zero	21 to 22 September 2024, New Delhi
4	WRC-4	ISRM International Symposium and 13th Asian Rock Mechanics Symposium (ARMS 13)	24 to 28 September 2024, New Delhi
5	WRC-5	International Conference on "Sustainable Concrete technology for Tunnels"	19th/20th October 2023 at Mumbai
6	WRC-6	ITA Award and Tunnelling Asia Conference from	22nd to 25th November, 2023 at Goa
		A-2 TRAINING PROGRAMME / WORKSHOP	
1	WRT-1	Knowledge sharing session on Stainless Steels a lasting solution for tunnel construction and applications	28 April 2023, New Delhi
2	WRT-2	Workshop on Rock mechanics in hydropower projects	May 2023, New Delhi
3	WRT-3	Workshop on Rock mechanics in landslide risk analysis and control	June 2023, New Delhi
4	WRT-4	Workshop on Application of Geosynthetics in Dam Engineering	27-28 June 2023, Rishikesh
5	WRT-5	Workshops on Conventional Tunnelling; Mechanized tunnelling & Drilling And Blasting For Surface And Underground Excavation	July 2023, New Delhi
6	WRT-6	Workshops on Waterproofing in tunnels; Sprayed concrete in underground structures; Health and safety in tunnel construction	August 2023, New Delhi
7	WRT-7	Workshop on Use of geo-synthetics in rock engineering projects/ Seepage control in underground structures/tunnels	August 2023, New Delhi
8	WRT-8	Workshop on Risk Informed Dam Safety Management	24-25 August 2023, New Delhi
9	WRT-9	Workshop on Tailing Dam Safety	12-13 October 2023, New Delhi
10	WRT-10	Workshops on Risk Management in Tunnelling	October 2023, New Delhi
11	WRT-11	Workshop on Rock mechanics in nuclear waste repositories	October 2023, New Delhi
12	WRT-13	Workshop on Dam Repairs and Rehabilitation – Deciding Design and Safety Criteria	23-24 November 2023, New Delhi
13	WRT-12	Workshop on Grout operations in rock engineering projects	December 2023, New Delhi
14	WRT-14	Workshops on Innovation in Tunnelling Technology	December 2023, New Delhi
15	WRT-15	Workshop on Numerical analysis of dams	11-12 January 2024, New Delhi
16	WRT-16	Workshops on Architecture design in tunnels	January 2024, New Delhi
17	WRT-17	Workshop on Slope Stabilization Challenges in Infrastructure Projects	February 2024, New Delhi
18	WRT-18	Workshop on TBM Related testing rock facility	22-23 February 2024, New Delhi
19	WRT-19	Workshop on Rock Mechanics and Tunnelling Techniques, September, New Delhi	March 2024, New Delhi
20	WRT-20	Workshop on Sedimentation Management in Reservoirs for Sustainable Development	March 2024, New Delhi

\*Note: The dates/programs are tentative. The members may refer for updates on our website from time to time (www.cbip.org) and contact the program coordinator before planning participation.



			77
	A-2 T	RAINING PROGRAMS (Doorstep / Short Term Program) – Virtual / Physical	
SI. No.	Programs Code	A-3 (i) DAMS AND HYDROPOWER	Duration (days)
1	WR-1	Planning, Design & Construction of Earth, Concrete &Rockfll Dams	3
2	WR-2	Analysis and Design of Concrete Gravity Dams	5
3	WR-3	Seismic Aspects of Dam Designs	3
4	WR-4	Roller Compacted Concrete (RCC) Dams	3
5	WR-5	Construction of Dams and Tunnels in Weak Rocks	3
6	WR-6	Design and Construction of Ground Improvement Technology Like Diaphragm Wall, Slurry Wall, Piles Foundation, etc.	3
7	WR-7	Dam Safety Management including Instrumentation of Existing Dams	3
8	WR-8	Grouting Techniques for Repair of Dams; Quality Control/ Assessment, Machinery; Tests & Analysis	3
9	WR-9	Use of Advanced Software in Design of Water Resources Structures	5
10	WR-10	Application of Finite Element Analysis for Water Resources Structures	5
11	WR-11	Spillway and Energy Dissipation Designs	3
12	WR-12	Civil Quality Aspects & Mix Design in Hydropower Project Construction	2
13	WR-13	Assessment of Soil Erosion and Sedimentation Control in Hydropower Projects	2
14	WR-14	Environmental Aspects of Hydropower Projects	2
15	WR-15	Environmental Impact Assessment & Effective Implementation Monitoring of EMPs	2
		A-3 (ii) TUNNEL AND UNDERGROUND	
16	WR-16	Tunnel Design and Construction – Issue & Challenges	3
17	WR-17	Geotechnical and Geological Investigations under High Over Burden	2
18	WR-18	Risk Management in Tunnelling Techniques	3
19	WR-19	Rock Mechanics and Tunnelling Techniques	2
20	WR-20	Waterproofng for Tunnel and Underground Structures	2
21	WR-21	Use of TBM/Road Header in Underground Works - Issues & Challenges	2
22	WR-22	Health and Safety in Tunnel Construction	3
23	WR-23	Ventilation System in Long Tunnels	3
24	WR-24	Shotcreting and Grouting	2
25	WR-25	Drilling & Blasting for Surface and Underground Excavation	3
26	WR-26	Construction Chemicals and Injection Techniques	2
27	WR-27	Micro Irrigation	3
28	WR-28	Construction Chemicals and Injection Techniques	2
29	WR-29	Design & Construction of Underground Works of Hydropower Project	3
		A-3 (iii) GEOSYNTHETICS	
30	WR-30	Applications of Geosynthetics in Dams and Hydraulic Structures	2
31	WR-31	Applications of Geosynthetics for Slope Stability & Landslides	2
32	WR-32	Applications of Geosynthetics for Ground Improvement	2
33	WR-33	Geosynthetics Reinforced Soil Slopes and Walls	2
34	WR-34	Applications of Geosynthetics for Coastal, River and Hill Slope Erosion Control	2
35	WR-35	Geosynthetics in Mining- Practice and Developments	2
		A-3 (iv) MISCELLANEOUS TOPICS	
36	WR-36	Earthquake Resistant Structural Design	2
37	WR-37	Quality Management and Trends in Construction	2
38	WR-38	Concrete Technology	2
39	WR-39	Shotcrete Technology and High Performance Concrete (Including Self Compacting Concrete)	2
40	WR-40	Construction and Contract Management	2
41	WR-41	Environmental Aspects of Water Resources Projects	2



42	WR-42	Modernization of Irrigation Scheme Policies, Strategy, Technology, and Investment	3
43	WR-43	Performance assessment of irrigation scheme	2
44	WR-44	Claimant Change and Water Management	2
45	WR-45	Sustainable Development of Ground Water	2
46	WR-46	Water Resource Augmentation by Treated Water	2
47	WR-47	Improving Crop Production through Micro Irrigation	2
48	WR-48	Micro Irrigation for Improving Water Use Efficiency	2
49	WR-49	Latest Technology in Micro Irrigations	2
50	WR-50	Training Programmes for ET (Civil)	7 weeks

#### **B. POWER AND RENEWABLE ENERGY SECTOR\***

SI. No.	Programs Code	TITLE OF THE EVENT	Dates	Venue	
	B-1 INTERNATIONAL CONFERENCES (PHYSICAL)				
1	PC-1	7th International Conference on 'Power System Protection and Automation'	November 2023	New Delhi	
2	PC-2	International Colloquium on 'Grid stability with enhanced penetration of Renewables - Technical Challenges & regulatory frame work'	8th – 12th January 2024	Goa	
		B-2 NATIONAL CONFERENCES (PHYSI	CAL)		
1	PC-1	National Conference on 'New technology for carbon neutrality and digitalization' under the aegis of NSC B3	June 2023	New Delhi	
2	PC-2	Conference on 'Failure Analysis of Power Transformer / Reactor – Case Studies'	July 2023	New Delhi	
3	PC-3	National Conference on "Energy Storage including Pumped Storage - Opportunities and Challenges"	August 2023	New Delhi	
4	PC-4	14th National Conference on "Earthing Systems"	September 2023	New Delhi	
5	PC-5	National Conference on the Amorphous Core Transformer - Advantages	December 2023	Lucknow	
6	PC-6	National Workshop on 'Energy Management, Energy Conservation and Energy Audit'	February 2024	New Delhi	
		B-3 Training Programme / Worksho	ор		
1	PT-1	Hands-on Training 'Line and Differential Protection'	19th – 21st April 2023	Goa	
2	PT-2	Hands-on Training 'EHV Substation Engineering'	2nd – 4th May 2023	Goa	
3	PT-3	Hands-on Training on 'Substation Automation'	15th – 17th May 2023	Vadodara	
4	PT-4	Hands-on Training 'POWER TRANSFORMER'	17th – 19th May 2023	Vadodara	
5	PT-5	Hands-on Training 'MV Gas Insulated Switchgear'	29th - 31st May 2023	Goa	
6	PT-6	Hands-on Training 'EHV GIS Substation Engineering'	14th – 16th June 2023	Vadodara	
7	PT-8	Hands-on Training TBA Siemens	June 2023	Goa	
8	PT-9	Hands-on Training 'Diagnostic and Condition Monitoring of Switchyard Equipment'	12th – 14th July 2023	Vadodara	
9	PT-9	Hands-on Training TBA Siemens	July 2023	Goa	
10	PT-10	Hands-on Training 'Dry-type transformer'	23rd – 25th August 2023	Vadodara	
11	PT-11	Hands-on Training TBA Siemens	August 2023	Goa	
12	PT-12	Hands-on Training 'EHV Circuit Breaker - Design, Application, site installation, O&M, recent developments'	20th – 22nd Sep. 2023	Vadodara	
13	PT-13	Hands-on Training TBA Siemens	September 2023	Goa	
14	PT-14	Hands-on Training 'Electrical Fire Safety & First Aid'	18th – 20th Oct. 2023	Vadodara	

<sup>\*</sup> Note: The dates/programs are tentative. The members may refer for updates on our website from time to time (www.cbip.org) and contact the program coordinator before planning participation.



15	PT-15	Hands-on Training on 'Power System Network Study and Analysis'	October 2023	New Delhi
16	PT-16	Hands-on Training TBA Siemens	October 2023	Goa
17	PT-17	Hands-on Training 'Power System Earthing'	22nd – 24th Nov. 2023	Vadodara
18	PT-18	Hands-on Training TBA Siemens	November 2023	Goa
19	PT-19	Hands-on Training 'HV Gas Insulated Switchgear'	13th – 15th December 2023	Vadodara
20	PT-20	Hands-on Training TBA Siemens	December 2023	Goa
21	PT-21	Hands-on Training 'Instrument Transformer'	17th – 18th January 2024	Vadodara
22	PT-22	Hands-on Training TBA Siemens	January 2024	Goa
23	PT-23	Hands-on Training 'Battery Energy Storage System'	21st – 23rd February 2024	Vadodara
24	PT-24	Hands-on Training TBA Siemens	February 2024	Goa
25	PT-25	Hands-on Training 'Power System Protection'	4th – 6th March 2024	Vadodara
26	PT-26	Hands-on Training on 'Power System Network Study and Analysis'	March 2024	New Delhi
27	PT-27	Hands-on Training TBA Siemens	March 2024	Goa

	B-4 T	RAINING PROGRAMS (Door Step/Short Term Programs) – Virtual /Physic	cal
SI. No.	Program Code	B-4 (i) HYDRO POWER GENERATION (E&M)	Duration (days)
1	P1	Tutorial on Best Practices and Other O&M Aspects of Hydro Power Station Including Safety Requirement	10
2	P2	Operation & Maintenance of Hydro Turbines & Generators	3
3	P3	Current Practices in Power System Protection / Protection Principles, Applications and Analysis	3
4	P4	Generator Excitation System	3
5	P5	Governing System of Hydraulic Turbines (RGMO & FGMO) including Power Feedback and Frequency Control Mode of Operation)	3
6	P6	Gas Insulated Switchgear (GIS) – Layout, Maintenance and Trouble Shooting	3
7	P7	Control System, SCADA & Communication Network	3
8	P8	Generator Transformer: Design, Erection, Commissioning and Maintenance	3
9	P9	Life Management of Transformers and Reactors	3
10	P10	Vibration Analysis, Alignment & Balancing	3
11	P11	Grid Discipline - Fault Analysis, Management, Operation of Power Station	3
12	P12	Circuit Breaker & Switchyard Equipment, CT, PT&CVT etc	3
13	P13	RLA Services for Hydro Turbine and Hydro Generator, RLA techniques, Laboratory Evaluation Services, Trouble Shooting Services for Hydro Plants and Uprating Studies	3
14	P14	Renovation, Modernization and Upgradation /Life Extension of Hydro Electric Power Station	3
15	P15	Earthing System in Hydro power station	3
16	P16	Regulating Electricity Tariffs and Related Issues, (CERC Regulations, SERCs including IEGC)	3
17	P17	Tariff Design Challenges	3
18	P18	Challenges of Construction in Electricity Sector	3
19	P19	Open Access	2



20	P20	Core Issues of Electricity – Regulation Perspective	2
21	P21	Best O&M Practices & Other O&M Aspects of Hydro Power Station including Safety Requirement	3
22	P22	Energy Management System	3
23	P23	Power Economics	3
24	P24	O&M Aspect of HM Equipment in HE Projects	3
25	P25	O&M of EOT/Gantry Cranes and Hoist	2
26	P26	General Safety Awareness Electrical Safety & Basic Fire Safety System	3
27	P27	Disaster, Safety Management and Fire Fighting System of Hydro Power Station	3
28	P28	Power Pricing and Power Market	3
29	P29	Contracts and Purchase Management	3
30	P30	Store Management & Inventory Control	3

SI. No.	Program Code	B-4 (ii) POWER GENERATION (THERMAL)	Duration (days)
31	P31	Performance Optimization and Condition Monitoring of Thermal Assets	3/2
32	P32	Coal Characteristics, Blending , Mill performance & Combustion and Optimization	3/2
33	P33	Water Optimization and Zero Discharge for Thermal Plants	3/2
34	P34	Store Management& Inventory Control	3/2
35	P35	Root Cause Analysis and Condition Monitoring of Motors	3/2
36	P36	Power Plant Performance-Analysis& Optimization	3/2
37	P37	Environmental Issues, Challenges and Solutions for Thermal Plants	3/2
38	P38	Strategies for cost Effective Maintenance Management System in a Power Plant	3/2
39	P39	Auxiliary Power Optimization & Improvement	3/2
40	P40	Gas Turbine Power Plant Performance in Open and Combined Cycle-analysis and Optimization	3/2
41	P41	Corrosion related problems and their remedial measures in Thermal Power Plants	3/2
42	P42	Coal Combustion Issues in Thermal Power Plants	3/2
43	P43	Coal, Oil and Water Sample Analysis	3/2

SI. No.	Program Code	B-4 (iii) TRANSMISSION SYSTEM	Duration (days)
44	P44	Operation and Maintenance of Substation equipments	3
45	P45	Gas Insulated Switchgear (GIS) – Layout, Maintenance and Trouble shooting	3
46	P46	Operation and Maintenance of Transmission line including condition monitoring	3
47	P47	Power system protection- Protection principles, Application and analysis	3
48	P48	Power Transformers & Reactors-Operation and Maintenance, Erection, Testing & Commissioning, Insulating Oil properties	3
49	P49	Power Transformers & Reactors- Tender Specifications, Design aspect, Latest trends in Power Transformers	2
50	P50	Life management of Transformers and Reactors	2
51	P51	Design and Construction practices for Substation	2
52	P52	Design and Construction practices for Transmission line including foundation	2
53	P53	SCADA in Transmission system	3
54	P54	Smart grid concept in Transmission - Issues and Challenges	2



55	P55	Effective Energy management and Power quality issues	2
56	P56	Indian Electricity Act, Indian Electricity Grid Code and Regulations for Transmission utilities	2
57	P57	FACT Devices, Controlled Switching Device Fault current limiters – need and benefits	2
58	P58	Latest development in metering technology including smart meters	2
59	P59	Regulatory and commercial aspect including tariff design	3
60	P60	Earthing system and it's importance	2
61	P61	Procurement, Inventory and Store management	2
62	P62	Electrical and Fire safety including prevention of Accidents	3
63	P63	Disaster management	2
64	P64	Transformer Maintenance & testing for supervisor/technician	2
65	P65	Narrow base Tower	2
66	P66	Communication needs in Transmission utilities- Use of OPGW and it's benefit	2

SI. No.	Program Code	B-4 (iv) DISTRIBUTION SYSTEM	Duration (days)
67	P67	Revenue management and loss reduction Techniques in Distribution system	2
68	P68	Improving the health of Distribution system including Distribution automation, Power quality, Distribution franchise	3
69	P69	Failure of Distribution Transformer, it's prevention and repair	2
70	P70	Grid discipline and Effective Energy management	2
71	P71	Distribution metering & advanced technology including Smart meters	2
72	P72	Smart grid concept in Distribution- Issues and challenges	2
73	P73	Distribution management with SCADA & Communication system	2
74	P74	Power quality, Harmonics mitigation & Reactive power management	2
75	P75	Power Trading and Power market	2
76	P76	Electrical and Fire safety, Accident causes and prevention	3
77	P77	Disaster management system	2
78	P78	Maintenance and handling of Underground/ ABC Cables	3
79	P79	Operation and Maintenance of Substation equipments	2
80	P80	Operation and Maintenance of Overhead Transmission line	2
81	P81	Distribution System – Construction practices for Substation and Transmission line	3
82	P82	Distribution system protection- Protection principles, Application and analysis	2
83	P83	Power/ Distribution Transformers- Construction, Erection, Testing and Commissioning, Operation & Maintenance	2
84	P84	Procurement, Inventory and Store management	2
85	P85	Energy audit and Demand side management	3
86	P86	Earthing practices in Electrical installation and related safety	2
87	P87	Redressal of customer grievances, customer satisfaction and customer relation management	2
88	P88	Electricity act 2003 & Rules/regulation framed there under, Labour law, dealing with court cases	3
89	P89	Tariff Policy & Submission of ARR	2 Days
90	P90	Regulatory framework including Regulations, Policy	3 Days
91	P91	Rural Electrification- Project planning and DPR preparation	3 Days

S	3	B-5. RENEWABLE ENERGY SECTOR	Duration (days)
	RE1	Solar P.V. System and Solar Roof Top System	2
2	RE2	Renewable Energy System	2
(	RE3	Government Initiatives, Targets, Roles & Challenges in Renewable Energy sector including Energy Storage	2



### **CENTRE OF EXCELLENCE AT GURUGRAM**

		C. Training Programs offered at Gurugram	
SI. No	Program Code	C-1. PROGRAMS	Duration (Days)
1	CoE1	Post Graduate Diploma Course in Operation & Maintenance of Transmission & Distribution System as per CEA Regulation 2010	182
2	CoE2	Post Graduate Diploma Course in Power Plant Engineering as per CEA Regulation 2010	365
3	CoE3	Post Graduate Diploma Certificate on Distribution System Engineering as per CEA Regulation 2010	90
4	CoE4	Post Graduate Diploma in Civil Construction, Planning & Designing	182
5	CoE5	Online Certification course in Renewable Energy Development including Grid Integration and Energy Storage System	65-70 Hrs.
6	CoE6	Online Certification Course on Cyber Security for Power Professionals	03 Months
7	CoE7	Training Program on Power Transmission System -Design, Construction, Testing & Commissioning and O&M	05
8	CoE8	Maintenance Management System in Power Stations and Industries	02
9	CoE9	Root Cause Analysis & Condition Monitoring of Motors	02
10	CoE10	Smart Grid System and SCADA Technology	02-03
11	CoE11	Distribution System Management and Transformer Maintenance Technique	02-03
12	CoE12	IT Application on Distribution System	02-03
13	CoE13	O&M of Distribution System	03
14	CoE14	Advances in Super Critical Technologies	01
15	CoE15	Water Optimization in Thermal Power Plant	01
16	CoE16	FGD System and NOx Reduction Technologies for Air Quality Improvement	01
17	CoE17	Artificial Technologies in Power Station	01
18	CoE18	A Hybrid Solar Wind Power Generation System	02
19	CoE19	Offshore Wind Farm including Transmission	01
20	CoE20	Contract & Procurement Management	02
21	CoE21	Project Planning Management	02
22	CoE22	Supply Chain Analysis	02
23	CoE23	Increase in Productivity through Fun Management in office & factory	02
24	CoE24	HR & Finance Management	02-03
25	CoE25	Attitude for Excellence Making Future Ready	02
26	CoE26	Improving Work Place Culture – Power of Positive Attitude	02
27	CoE27	Personal effectiveness development to meet the challenges of new competitive era	02
28	CoE28	Happiness at work	02
29	CoE29	Competency Mapping	02
30	CoE30	Planning for Superannuation	02
31	CoE31	Disaster Management & Quick Response Team	03
32	CoE32	Best Practices in Safety during O&M	02
33	CoE33	General Safety Precaution, Fire Fighting & First Aid	03
34	CoE34	Safety Health & Environment	02
35	CoE35	Health Hygiene Safety and CPR Based Training	02
36	CoE36	Central Electricity Authority (Measure relating to Safety and Electric Supply) Regulation, 2018	02
37	CoE37	Finance for Non Finance Executives	02
38	CoE38	Goods and Service Tax (GST)	01
39	CoE39	Energy Audit & Management	01
40	CoE40	Customized Training Program on Soft Skill	02-03
41	CoE41	Companies Act 2013 and SEBI (Listing obligations and disclosure) Regulation 2015	02



42	CoE42	Legislations related to Labour/ Welfare & Sexual Harassment	02
43	CoE43	Discipline & Disciplinary Procedure	02
44	CoE44	Preventive Vigilance	02
45	CoE45	ERP Implementation	01
46	CoE46	Lean Six Sigma Green Belt	02
47	CoE47	CoE47 Strengthening the skill India initiative by providing training under skill development in Power Sector, Green Jobs and Electronics Sectors for various job roles which QPs/NOS are developed by NSDC	
48	CoE48	Induction Training Program (Residential) for Trainee Engineers/ Trainee Officers / Junior Engineers	Customized
49	CoE49	Leadership development interventions like Enterprises Risk Management Strategic Management and Boundary Management for Senior executives	Customized



Conclave on Harnessing of Hydropower Potential - A Way Forward - 16th December 2022, New Delhi



View of Audiance – National Conference on Failure of Major Equipment's of Sub Station - Case Studies, 23rd - 24th February 2023, New Delhi



# 4. LIST OF TRAINING PROGRAMS/ TUTORIALS/CONFERENCES ORGANIZED DURING 2022 – 2023

#### 4.1 WATER RESOURCES HYDROPOWER AND ALLIED POWER

SI. No.	TOPICS	Date
1	Physical Conference on Hydropower and Dams Development for Water and Energy Security-Under Changing Climate at Rishikesh	April 7-9, 2022
2	Virtual Workshop on Concrete Technology	May 11, 2022
3	Virtual Training Programme on Tunnel Shaft & Cross Passage Construction by Dr. Harald Wagner	May 20, 2022
4	Virtual Training Programme on Waste Management	May, 2022
5	Virtual session on Rock mechanics in Hydropower Projects-Shri SL Kapil	June 8, 2022
6	Virtual Workshop on Tunnel Design at New Delhi	June 29 & 30, 2022
7	Virtual Training Programme on Slope Stability	June, 2022
8	Virtual Training Programme for NVDA Officers the topic Irrigation Water Resources Management	May 9-10, 2022
9	Virtual Workshop on Modern approaches to Waterproofing	March 16 &17, 2022
10	Virtual Training Programme on Innovations in Mechanized Tunnelling by Dr. Harald Wagner	May 19, 2022
11	Virtual Training Programme on Design of Energy Dissipators by Prof. em. Dr. Anton J. Schleiss	April 27-28, 2022
12	Virtual Training Programme on Operation Maintenance and Rehabilitation of Dams by AECOM	July 6 & 7, 2022
13	Virtual Session on TBM Partial Excavation Operation, Design and Burial challenges by Mr. Keivan Rafie	July 22, 2022
14	Virtual Training Programme on Best Practices in Cross Passages Construction	July 28 & 29, 2022
15	Innovative Construction Technologies in Hydropower/ modern techniques and practices in hydro project constructions	November 16-19, 2022
16	Design of Tunnels and Caverns for Hydropower Projects	December 7-9, 2022
17	Tunnelling in difficult ground conditions/ new tunnelling excavation techniques	December 21-23, 2022
18	Virtual Webinar on Risk Assessments, Professional Duties and other Disasters - a Guide for Young Professionals by Prof. Arnold Dix, President,ITA	18th February, 2023
19	Virtual Training on Integrated Water Resources Management	09 – 10 May 2022, New Delhi
20	Brainstorming Session on Development of Small Hydro – Issues and Challenges	22nd July 2022, New Delhi, New Delhi
21	Round Table Discussion with IASH (International Association for small hydro) Delegates at Delhi	15th September 2022, New Delhi
22	Brainstorming Session on Financing of Small Hydropower Project	12th January 2023, New Delhi
23	National Conference on Preparedness on Disaster Prevention & Management for Hydro Power Projects	23rd January 2023, New Delhi

#### 4.2 POWER AND RENEWABLE ENERGY SECTORS

S. N.	Date	Name of Training/Conference	Mode of Training/ Conference
1.	28th – 29th April 2022	Training Program on 'Transformer design features, latest technologies & factory testing'	Online
2.	12th-13th May 2022	National Tutorial on 'Understanding SCADA System'	Online
3.	18th-20th May 2022	Training Program on 'Mastering the Financial Modelling of Solar Power Plants'	Online
4.	25th – 26th May 2022	02 Days Conference on Power Reforms – Process, Expectation & Achievements	Physical, Vadodara
5.	16th– 17th June 2022	National Tutorial on 'Concepts in Cyber Security of Power Grid and Smart Grid'	Online
6.	22nd June 2022	765 KV Transmission System for TATAPOWER	Online
7.	23rd – 24th June 2022	National Seminar on 'Electrical and Fire Accidents in Power Industry - Causes and Prevention'	Physical, Shimla
8.	19-21 July 2022	Training Program on General Safety Awareness, Electrical Safety and Basic Fire Safety	SALAL/NHPC



9.	29th – 30th June 2022	National Tutorial on 'Features in Modern Numerical Relays for Enhancing the performance of Power System Protection'	Online
10.	21st – 22nd July 2022	National Conference on 'Latest Developments and Advances in Power Transformers'	Physical, CBIP, Delhi
11.	27th – 30th July 2022	International Conference on 'Global Power Sector Challenges and Mitigation'	Physical, Almaty, Kajakisthan
12.	19th – 20th Aug. 2022	Training program on O&M of Transmission Lines including condition monitoring	Physical, Bhubaneswar
13.	22nd - 24th Aug. 2022	Training Program on Safety Related Statutory Provisions at	SUBANSIRI/NHPC
14.	28th Aug. to 2nd Sep. 2022	CIGRE session 2022	Physical, Paris
15.	21st – 23rd Sep. 2022	Hands-on Training on 'EHV Circuit Breaker O&M' jointly with Hitachi Energy	Physical, Vadodara
16.	29th – 30th Sep. 2022	Practical Training on 'Power System Network Study And Analysis'	Physical, CBIP, Delhi
17.	3rd - 4th Oct. 2022	Training program for BBMB on Cyber Security	Physical
18.	17th – 18th Oct. 2022	13th National Conference on 'Earthing Systems'	Physical, CBIP, Delhi
19.	17th -19th Oct. 2022	Training Program on General Safety Awareness, Electrical Safety and Basic Fire Safety	Loktak/NHPC
20.	22nd Oct. 2022	Training program for Tata Power on Reforms in Power sector	Online
21.	02nd – 04th Nov. 2022	Operation & Maintenance of Substations Equipment's including System Stabilities (03 Days)	Physical, Bhubaneswar
22.	3rd – 4th Nov. 2022	National Conference on 'Energy Storage including Pumped Storage - Opportunities and Challenges'	Physical, Shimla
23.	3rd - 05th Nov. 2022	Training Program on General Safety Awareness, Electrical Safety and Basic Fire Safety	NJHPS/SJVNL
24.	16th – 18th Nov. 2022	Construction Challenges in Power Transmission Projects including Environmental / Forest Clearances (03 Days)	Physical, Bhubaneswar
25.	10th – 11th Nov. 2022	National Conference on 'Challenges in Distribution Sector and its Mitigations'	Physical, Kolkata
26.	06th - 08th Dec. 2022	Training Program on Electrical Safety and Basic Fire Safety and Disaster Management	Dulhasti/NHPC
27.	12th - 14th Dec. 2022	Training Program on General Safety Awareness, Electrical Safety and Basic Fire Safety	Teesta-V/NHPC
28.	16th Dec. 2022	Conclave on 'Harnessing of Hydro Potential – A way forward' - (Large hydro active reach out (LAHAR) initiative)	Physical, New Delhi
29.	14th – 16th Dec. 2022	Hands-on Training on 'HV Gas Insulated Switchgear' jointly with Hitachi Energy	Physical, Vadodara
30.	11th - 12th January 2023	Training Program on Safety Management in O&M of Power Plants, Disaster Plan, Fire Safety Management & Chemical Safety	on Line
31.	18th – 19th Jan. 2023	National Tutorial on 'Smart Grid Standards - Specifications, Requirements, and Technologies'	Physical, New Delhi
32.	18th – 20th Jan. 2023	Hands-on Training on 'Diagnostic and Condition Monitoring of Switchyard Equipment' jointly with Hitachi Energy	Physical, Vadodara
33.	3rd Feb. 2023, New Delhi	National Conference on CEA Regulations on Safety Requirements	Physical
34.	9th – 10th Feb. 2023	Workshop on 'Energy Management, Energy Conservation and Energy Audit'	Physical, New Delhi
35.	15th – 16th Feb. 2023	National Tutorial on 'Electric Safety: Practice and Standards'	Physical, New Delhi
36.	21st - 23rd Feb. 2023	Training Program on General Safety Awareness, Electrical Safety and Basic Fire Safety	Kishanganga/NHPC
37.	23rd - 24th Feb. 2023	Training Program on General Safety Awareness, Electrical Safety and Basic Fire Safety	URI/NHPC
38.	22nd – 24th Feb. 2023	Hands-on Training on 'Principles of Protection Technology' jointly with Siemens	Physical, Goa
39.	23rd – 24th Feb. 2023	National Conference on 'Failure of Major Equipment's of Sub Station - Case Studies'	Physical, New Delhi
40.	3rd March 2023	CBIP Day and CBIP Awards Function, 2022	Physical, New Delhi
41.	9th – 10th Mar. 2023	National Conference on 'Latest Trends & Innovations in 'Insulated Cables and Overhead Lines'	Physical, New Delhi



42.	15th – 17th Mar. 2023	Hands-on Training on 'Power System Network Study and Analysis'	CBIP, New Delhi
43.	15th -17th March 2023	6th Best Practices Study Tour and International Workshop on Agri PV Plants, RE Grid Integration and Green Hydrogen	Jodhpur
44.	27th – 29th Mar. 2023	Hands-on Training on 'Substation Automation' jointly with Siemens	Physical, Goa
45.	27-29 March 2023	Training program on 'Advanced Power System Protection' exclusively for the professionals of Dhauliganga Project of NHPC Ltd.	Online
46.	31st Mar 1st Apr. 2023	National Conference on 'Cyber Security challenges for Power Grid & Smart Grid Networks'	Physical, IIT, Tirupati

#### 4.3 CBIP CENTRE OF EXCELLENCE AT GURUGRAM

S.N.	Title of the Program	Date
1	04 Days Specialized Program on "Advanced Management for Sr. Executives from NHPC	01 - 04 April 2022
2	02 Days Training Program on "Preventive Vigilance" for the executives of DVC	06 - 08 April 2022
3	Online Test and Written Test for consideration of Promotion for E-1 to E-2 Grade	10th April 2022
4	Team work, Team building & Emotional Intelligence; Evaluating Self Performance for Achieving Organizational Goal (Prog - 10)	11 - 12 April 2022
5	Training Program for the Contract Workers (EMD and FMEM) at RLI Vindhyachal (Batch 1)	11 - 19 April 2022
6	02 Days Training Program on "Planning for Superannuation" for the Executives of DVC	19 - 20 April 2022
7	Training Program for the Contract Workers (EMD and FMEM) at RLI Vindhyachal (Batch 2)	20 - 26 April 2022
8	Team work, Team building & Emotional Intelligence; Evaluating Self Performance for achieving Organizational Goal (Prog - 11)	26 - 27 April 2022
9	Training Program for the Contract Workers (EMD and FMEM) at RLI Vindhyachal (Batch 3)	27 April - 04 May 2022
10	Training Program for the Contract Workers (EMD and FMEM) at RLI Vindhyachal (Batch 4)	05 - 11 May 2022
11	Non-Technical Training Programme at EETIs & KJTC under HRD Department, WBSEDCL (Prog - 12)	19 - 20 May 2022
12	Promotional Training Programme of SO(A/c) and DM(Fin.) for the post of AM (Fin.) & Manager (Fin.) of DTL	30 May - 03 June 2022
13	Training Program for Skill Development of ITI Qualified Operators at North Karanpura Super Thermal Power Project	06 - 11 June 2022
14	Training Program on Disaster Management for executives of BKTPP, WBPDCL (Prog. 1)	8 - 10 June 2022
15	Online Training Program on ERP Implementation for the executives of DVC	13 - 14 June 2022
16	Online Session on "Yoga" for the executives of DVC, Kolkata	14 - 28 June 2022
17	One Day Training Program on Mastering Managerial Communication Competencies plus Marketing & Liasioning	15th June 2022
18	Training Program on "Condidtion Assessment and Maintenance of Induction Motor" for the Executives of WBPDCL at SGTPS	29 - 30 June 2022
19	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 5)	04 - 09 July 2022
20	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 6)	11 - 16 July 2022
21	Non-Technical Training Programme at EETIs & KJTC under HRD Department, WBSEDCL (Prog - 13)	12 - 13 July 2022
22	Non-Technical Training Programme at EETIs & KJTC under HRD Department, WBSEDCL (Prog - 14)	14 - 15 July 2022
23	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 7)	18 -23 July 2022
24	Non-Technical Training Programme at EETIs & KJTC under HRD Department, WBSEDCL (Prog - 15)	21 - 22 July 2022
25	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 8)	25 - 30 July 2022
26	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 9)	01 - 06 Aug 2022
27	26 Weeks PGDC Course in T&D	1st Aug, 2022 - 31st Jan, 2023
28	Training Program on Disaster Management for the executives of STPS, WBPDCL (Prog. 2)	03 - 05 August 2022
29	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 10)	08 - 13 Aug 2022



30	Training Program on "Condidtion Assessment and Maintenance of Induction Motor" for the Executives of WBPDCL at SGTPS	22 - 23 August 2022
31	Online Training Program on Transmission System - Design, Erection & Commissioning and O&M for the Executives of Adani Transmission Ltd.	23rd August, 2022
32	Training Program on "Water Optimization" for the executives of WBPDCL at SGTPS	26 - 27 August 2022
33	05 Weeks Training Program for Newly recruited Executives / Trainee Engineers of NHPC Ltd.	29 Aug - 29 Sep 2022
34	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 11)	29 Aug - 03rd Sep 2022
35	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 12)	05 - 10 Sep 2022
36	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 13)	12 - 17 Sep 2022
37	03 Days Training Programme on IEC 61850 Based Substation Automation System for the Executives of Electricity Department of GOA	19 - 21 Sep 2022
38	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 14)	19 - 24 Sep 2022
39	02 Days Training Program on "Planning for Superannuation" for the executives of DVC	20 - 21 Sep 2022
40	02 Days' Training on "Condition Assessment and Maintenance of Induction Motor" of KTPS, WBPDCL	20 - 21 Sep 2022
41	Training Program for Operation department Contract Workers at NTPC Vindhyachal Power Station (Batch 15)	26 Sep - 01 Oct 2022
42	02 Days Onsite Management Training Program for Middle & Senior Level Executives of CSPGCL at PGTI, Korba	29 - 30 Sep 2022
43	02 Weeks Induction Training Program for the Management Trainees of OPTCL	10th Nov- 23rd Nov 2022
44	Training Programme on Disaster Management for the Executives of West Bengal State Electricity Transmission Co. Ltd.	16th Nov 2022
45	Training Programme on Disaster Management for the Executives of West Bengal State Electricity Transmission Co. Ltd.	18th Nov 2022
46	Training Programme on Disaster Management for the Executives of West Bengal State Electricity Transmission Co. Ltd.	21st Nov 2022
47	Training Programme on Disaster Management for the Executives of West Bengal State Electricity Transmission Co. Ltd.	23rd Nov 2022
48	Training Programme on Disaster Management for the Executives of West Bengal State Electricity Transmission Co. Ltd.	25th Nov 2022
49	Training Programme on Disaster Management for the Executives of West Bengal State Electricity Transmission Co. Ltd.	28th Nov 2022
50	07 Days Specialized Training Program on EHV AIS Substation Design for Executives of Nepal Electricity Authority (NEA) from Nepal Hydro and Electric Ltd. (NHE)	5th to 12th January 2023
51	01-day Program on FGD System and NOx Reduction Technologies for Air Quality Improvement (Announced) at CBIP CoE Gurgaon	30th Jan, 2023
52	Online Certification Course in "Renewable Energy Development including Grid Integration and Energy Storage System"- 4th Batch (Duration 65 Hrs)	Started from 30th Jan, 2023
53	26 Weeks PGDC Course in Transmission and Distribution Systems with Automation SCADA/DMS Commenced from 1st Feb, 2023 at CBIP CoE Gurgaon	1st Feb – 31st July, 2023
54	In house Training Program on "Water Optimization in Thermal Power Plants" for the Executives of WBPDCL at Kolaghat Thermal Power Station (BTPS)	16th – 17th Feb, 2023
55	2 Days training programme on "FGD and NOx reduction" for the employees of DVC at Mejia Thermal Power Station (MTPS) and Chandrapura Thermal Power Station (CTPS) on 20th & 21st and 23rd & 24th Feb, 2023 respectively.	20th - 24th Feb, 2023
56	In house Training Program on "Condition Assessment and Maintenance of Induction Motor" for the Executives of WBPDCL at Bandel Thermal Power Station (BTPS)	20-21st Feb, 2023
57	5 Weeks Induction Training Program for Executives from NHPC at CBIP CoE Gurgaon	27th Feb - 29th March, 2023
58	05 Days Training Program on Power Transmission System –Design, Construction, Testing & Commissioning and O&M at CBIP Centre of Excellence, Gurugram, Haryana	20th-24th March 2023
59	02 Days Program on Transmission & Distribution System for the Executive of IPCI, at Kolkata	14-15 March 2023
60	02 Days Bearing maintance, condition, Monitoring, analysis and prevention failure at PGTI, CSPGCLat Kolkata	23-24 March 2023



# D. TECHNICAL AUDIT OF POWER STATIONS – ORGANIZED DURING 2022 – 2023

SN	Audit of Hydro Power Stations	Dates
1	Technical Audit of 5 Power Plants of MPPGCL :	28.10.22 to 12.11.22
	TONS (3x105MW); Deolond (3x20MW); Jhina (2x10MW); Madhikheda (3x20MW); Birsinghpur (1x20MW)	
2	Technical Audit of Power Plants of UJVNL Two Power Station :	13.12.22 to 18.12.22
	Ramganga (3x66MW) / Sharda (3x15MW)	
3	Tech Audit of Nathpa Jhakri & Rampur Power Stations of SJVNL	06.01.23 to 14.01.23
	NJHPS (6x250MW) / Rampur (6x68.67MW)	
4	Tech Audit of OHPCL 3 Power Station (1st Trip)	22.01.23 to 01.02.23
	Burla (2x49.5MW+2x32MW+1x37.5MW+2x43.65MW); Chplima (3x24MW); Rengali (5x50MW)	
5	Tech Audit of Two Power Stations of NHPC	26.02.23 to 02.03.23
	Chamera-I(3x180 MW); Sewa-II(3x40MW)	
6	Tech Audit of OHPCL 3 Power Station (2nd Trip)	16.3.23 to 28.3.23
	Balimela(6x60MW+2x75MW); Upper indravati (4x150MW); Uper kolab (4x80MW)	
7	Consultancy work.Review of Performance of KWHEP/JSW Capacity enhancement Work	10.10.22 to 16.10.22
8	Consultancy work.SHEPL - Techno Commercial evaluation of of two power stations (Andhra-II and Shatul)	06.12.22 to 08.12.22
	Audit of Thermal Power Station	
11	Technical Audit and Gap Analysis for Raghunathpur TPS (2x600 mw)	December 2022

#### WHO SHOULD ATTEND?

All the programs are of interest and quite useful for the Professionals and Stakeholders from Central Govt. / State Govt. / SEBs, Power Utilities/Corporations, Regulators, Researchers/ Academicians, Manufacturers, Planners, Operators, Consultants, Electrical, Contractors, etc.

#### **CBIP Secretariat**

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