

**26 WEEKS POST DIPLOMA COURSE**  
**IN**  
**SUB-TRANSMISSION & DISTRIBUTION SYSTEM**  
**(1st BATCH)**  
**(05.08.2013 TO 08.02.2014)**

**PROGRAMME BROCHURE**



**CENTRAL BOARD OF IRRIGATION & POWER**  
**MALCHA MARG, CHANAKYA PURI**  
**NEW-DELHI-110021**

## 26 weeks Post Diploma Course in Sub-Transmission & Distribution System

**Central Board of Irrigation and Power** was set up by the Government of India for monitoring of Irrigation & Power of our country in the pre-independence era and it is now committed towards the development of Irrigation, Power & Renewable energy sectors of the country through its Human Resources development. CBIP has been rendering dedicated services to the professional organizations, engineers and individuals in the country. The main objective of CBIP is to disseminate technical knowledge through various modes e.g., publication of journals, manuals, technical reports, guidelines, research and organizing conferences, seminars, training programs etc. It also provides consultancy in various areas of these sectors.

Indian power Sector is presently passing through a phase of transition of technology up-gradation in the area of Generation and Transmission. Several new Ultra Mega Thermal power Projects are in the process of installation both in Public and private sectors where advanced technology with super critical parameters supported by the state of the art Control & Instrumentation system are being adopted. Simultaneously to evacuate the power, several EHV substations and long Transmission lines would be erected with **associated distribution system**. Presently India has the largest Electricity Grid in the World and world's third largest Transmission and Distribution network. The ambitious plan of Govt. of India for adding additional 3,35,437MW of Generation Capacity during 12<sup>th</sup> and 13<sup>th</sup> plan period is ought to be supplemented with the corresponding infrastructure addition in the T&D system. To achieve this objective, additional 5,70,000tKms and **30 Crores** consumers would be added to the present T&D network. Various new technologies like **SCADA and GIS application, remote operation of Substation** etc. have been implemented in various areas of Sub-Transmission and Distribution sectors. The management of this huge network shall be a challenging task. To man this huge Sub-Transmission System and Distribution networks, a huge manpower adequately trained shall be required which will be of the order of 6.65 lakhs.

Keeping all these aspects in view, CBIP has taken the initiative to launch the modular type course of 26 weeks Post Diploma course in Sub-Transmission and Distribution System following the syllabus as per the requirements of Central Electricity Authority Regulations-2010 for the fresh Diploma engineers who would be groomed as per the requirement of Indian Power Industry and would be readily available to the utilities of power sector. The syllabus has been designed to provide a meaningful practical oriented training to the said Engineers as per the requirement of various stake holders of the industry.

This course covers the complete syllabus under the provision of Indian Electricity Regulations-2010 which will include the class room sessions, Lab sessions as well as on-the-job training. The students have to attend the Labs and workshops for practical demonstration and testing and the on-job practice sessions in various Distribution Substations and associated system. Visit to some reputed manufacturing plants shall also be arranged. To enhance the personal skills, some Managerial inputs shall also be given to the engineers. After completion of the course the students would be fully conversant with the Sub-Transmission and Distribution technology and would be able take over the charge of the O&M of Substations in Sub-Transmission and Distribution sectors as working Supervisors.

The main aim of the course is to develop a pool of technically trained manpower readily available for recruitment to the Distribution areas of Indian Power Sector including

power stations, power equipment manufacturers, training institutes, contractors etc. The course is also open for the sponsored candidates from SEBs/Power utilities.

**THE DETAILS OF THE SYLLABUS ARE AS FOLLOWS:**

SI.No.	Module	Duration
1.	Introduction of Power System & Power Development in India	1 week
2.	Safety	1 week
3.	Basic Electricals	2 weeks
4.	Sub Station Engineering/Switchyard equipment in Distribution	2 weeks
5.	Distribution Equipments	2 weeks
6.	O&M of S/S Equipment	2 weeks
7.	Distribution Line Engineering & cables used in Distribution	2 weeks
8.	Distribution Metering & efficient energy Mgt.	1 week
9.	Distribution Management including Tariff & Regulation / Distribution System Planning & Analysis	1 week
10.	Lab / Workshop	4 weeks
11.	SCADA & Automation in Distribution	1 week
12.	IT / GIS application in Distribution	1 week
13.	Directed on-job Training	2 weeks
14.	Management / Aptitude / Personality Development	1 week
15.	Seminars / Presentation	1 week
16.	Distribution Simulator	1 week
17.	Visits and Final Assessment	1 week
<b>TOTAL</b>		<b>26 weeks</b>

The above syllabus is indicative and could be changed as per the requirement of the industry as well as in the best interest of the course.

**ELIGIBILITY:** Diploma Holder in Electrical Engineering from a recognized Institution/University with minimum of 60% marks.

**SELECTION CRITERIA FOR ADMISSION:** Based on the Merit of marks of 10<sup>th</sup>/12<sup>th</sup> & Diploma in Engineering. The merit list of the selected candidates will be displayed on the website after the last date of receipt of hard copy of the application.

**AGE LIMIT:** For Non-sponsored candidates, the age limit is 26 years as on 10/07/2013 i.e. last date of submission of online application. There is no age limit for the sponsored candidates.

**FACULTY:** In-house as well as Renowned/Reputed faculty area from Power Industry / Distribution equipment manufacturers/Contractors/IIT / Engineering colleges having knowledge / experience in the concerned area will be delivering the lectures during the entire programme.

**VISITS & ON-JOB TRAINING:** On-job training will be arranged at various s/stations, distribution lines, manufacturing plants, contractors' sites etc.

**WHY SHOULD YOU JOIN CBIP FOR THIS COURSE?**

Power is the most important infrastructure sector and is the backbone for the development of all other infrastructure sectors of the country, The GDP of the country is

directly dependent on the growth of power sector. It is expected that the total capacity addition within the next 10 years will almost replicate the figure available as on today. More sophistications are going to be implemented in distribution areas where a big deficit of trained manpower is existing. The engineers who will be attending this programme will be highly effective and useful trained manpower for this sector. The industries will be highly benefited by the contribution of these engineers.

Hence, there is an ample scope of making a career in Operation & Maintenance of Sub-Transmission & Distribution System of Indian Power Sector for the fresh Electrical Engineers who undertake this programme.

The course is also open for the sponsored candidates from SEBs and Power Utilities (Public & Private).

The certificates would be issued by CBIP, a premier board of high reputation in India and abroad, thereby creating the highest value for the certificate holders in both Indian and International power industry.

**ACCREDITATION OF INSTITUTE:** CBIP has been accredited as Category-I training institute by Ministry of Power, Govt. of India to run all the programmes under Central Electricity Authority Regulations -2010.

### **STRENGTHS OF CBIP**

- An 84 years old establishment into dissemination of knowledge in Power, Irrigation and Renewable sectors.
- Almost all reputed utilities of Power, Irrigation and Renewable sectors of the country are the institutional members and at least 2600 senior officers of the level of Chief engineer and above from these sectors are the members.
- Has a great networking and close relations with all reputed utilities of these sectors. Institute is located in most posh and central place of the capital city of the country i.e. Chanakyapuri, New Delhi.
- Easy availability and access to the reputed and highly experienced faculty because of above two facts.
- Has a strong base of the very senior officers with deep experience of various disciplines of Power and irrigation sector.
- Has state of the art infrastructure facilities like Digitized library, dining hall, classrooms, conference hall etc. well equipped with audio visual aids and Air conditioning system.
- Publishes very strong technical publications on very thrust areas in above sectors.
- Has the secretariat of at least 10 international organizations and the Secretary CBIP is the secretary or the member secretary of their India chapters.
- A very strong Board with Chairperson, CEA as the President; Member, CWC, JS-MNRE and Chief Technical Principal, Tractebel Engineering as the Vice Presidents.
- CBIP is also in the process of setting up of its Power Management Institute at new plots allotted by HUDA in Gurgaon for conducting long term/short term training programs in all the three niche sectors i.e. Power, Water Resources and Renewable Energy.
- CBIP has also signed a Memorandum of Understanding (MoU) with Indian Electrical and Electronics Manufacturers Association (IEEMA) which has a network of around 650 member organizations from public, joint & private sectors including good no. of organizations associated with Transmission & Distribution systems for collaborative ventures/ efforts for enhancement of quality service

through various activities viz., joint assignments, training programs, conferences, seminars, consultancy, R&D activities, joint studies and surveys, knowledge sharing and action plans identified by CBIP and/or IEEMA.

- Most of the organizations (Govt. Sector & Private) of Indian Power sector involved in Generation, Transmission and Distribution of Power are the members of CBIP.
- CBIP has a strong team of senior training officers, having in-depth knowledge of conducting various long term training programs related to Power sector and were among the team of main initiators for launching the Post Graduate Diploma Course and Post Diploma Certificate programs in Thermal/T&D/GIS and B-Tech(Power) in the country.

## **TRAINING CHARGES:**

### **1. Admission Fees:**

- a. For Non-Sponsored Candidates:** Rs. 80,000/- excluding the Lodging & Boarding (payable in two equal installments i.e. Rs.50,000/- and Rs.30,000/-)
- b. For Sponsored Candidates:** Rs. 1,20,000/- (in one installment)
- c. Foreign Nationals:** US \$4,000/-

**2. Caution Money:** Rs. 5000/- to be deposited during admission which would be refunded back after completion of the course

**3. Placement Assistance Charges:** Rs.2000/- (non refundable)

**4. Placement Charges:** Rs.8000/- to be paid after placement in organizations.

**5. Lodging/ Boarding:** CBIP has tied-up with local Guest Houses / Hostels. Arrangement will be made for lodging, boarding and transport (To and Fro) from guest house on nominal payment basis. The candidates who are interested to have accommodation may give their option for the same. The accommodation shall be arranged for the candidates only if response is good. The accommodation charges will be as per actual.

**6. Working Lunch & Tea:** The lunch and two times tea in the institute during the working days will be available @ Rs.2400/- per month (compulsory).

### **LOAN FACILITY:**

The candidates who get confirmed admission and wish to avail loan from a Bank/Financial institute may also take a certificate from CBIP for availing the same.