

# 3/6 Months Post Graduate Diploma Certificate Course (PGDC)

in

## Civil Infrastructure Development Engineering

Starting : 30.03.2020



### **CENTRAL BOARD OF IRRIGATION AND POWER**

(More than 9 decades of Service to the Nation in Power Sector)

### **CBIP CENTRE OF EXCELLENCE**

Website [www.cbipcoe.org](http://www.cbipcoe.org) Email: [training@cbip.org](mailto:training@cbip.org)

Plot No-21, Sector-32, Gurgaon, Haryana

*(Recognized as Grade A category-1 training Institute for providing training in the field of Hydro, Thermal, Transmission, Distribution and Power management Ministry of Power, Government of India)*

## INTRODUCTION

Infrastructure sector is a key driver for the Indian economy. The sector is highly responsible for propelling India's overall development and enjoys intense focus from Government for initiating policies that would ensure time-bound creation of world class infrastructure in the country. Infrastructure sector includes power, bridges, dams, roads and urban infrastructure development. In 2018, India ranked 44th out of 167 countries in World Bank's Logistics Performance Index (LPI) 2018.

Foreign Direct Investment (FDI) received in Construction Development sector (townships, housing, built up infrastructure and construction development projects) from April 2000 to March 2019 stood at US\$ 25.05 billion, according to the Department of Industrial Policy and Promotion (DIPP). The logistics sector in India is growing at a CAGR of 10.5 per cent annually and is expected to reach US\$ 215 billion in 2020.

India has a requirement of investment worth Rs 50 trillion (US\$ 777.73 billion) in infrastructure by 2022 to have sustainable development in the country. India is witnessing significant interest from international investors in the infrastructure space.

The Government of India is expected to invest highly in the infrastructure sector, mainly highways, renewable energy and urban transport. The Government of India is taking every possible initiative to boost the infrastructure sector.

India's national highway network is expected to cover 50,000 kilometres by 2019. National highway construction in India has increased by 20 per cent year-on-year in 2017-18.

## ABOUT THE COURSE

Infrastructure Development has got a big momentum in India and specially the Civil Infrastructure development is in top priority in our country. Keeping this aspect in view, CBIP has taken this initiative to launch the 06 Months Post Graduate Diploma Certificate Course in Civil Infrastructure Development Engineering following the syllabus under the National Programme on Technology enhanced learning system for the fresh graduate engineers who would be groomed as per the requirement of Indian Infra Industry. The duration of the course would be 06 months which includes the class room sessions as well as on-the-job training and software design. The students have to attend the on-job practice sessions in various infra industry. Visit to some running projects shall also be arranged. To enhance the personal skills, some inputs of Management are also to be given to the students.

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

## COURSE OBJECTIVES

The objective of the course is to develop groomed manpower for the Civil Infrastructure Development sector having high skill and confidence in civil construction technology and various equipment associated with them. After completion of the course the students would be readily available as working professionals in Infrastructure Development System.

After completion of the course the students would acquire extensive basic and advanced knowledge of

- Necessary Safety aspects required in Civil Infra jobs
- Details of associated equipments
- Tunneling
- Road Construction
- Concrete Technology
- Construction & Steel Structure
- Concrete & iron Infrastructure
- Hydel Plant including Dam Construction

## METHODOLOGY FOR THE COURSE

- Classroom Lecture Sessions
- On-Job Training at different Project site & Site visit
- Group Discussion session
- Projects, Seminars
- Manufactures visit, maintenance plant visit etc.
- Hydel Power visit for construction & Tunneling



## DETAILED COURSE CURRICULUM

### For 6 months (Phase 1 + Phase 2)

Sl. No.	Subject/Modules - 03 Months (1st Phase)	Duration
1	Introduction to Power Sector Scenario and Infra Sector	1 Week
2	Conceptualization of Hydro and Thermal Power Stations	½ Week
3	Basic Civil Engineering	½ Week
4	Detailed Survey	1 Week
5	Geological Study & Geotechnical Investigation and GIS	1 Week
6	Hydrological Study	1 Week
7	Heavy earth moving equipment including TBM	1 Week
8	Concrete Technology	1 Week
9	Structure design (Steel & Concrete) and Building	1 Week
10	Piling & Foundation	1 Week
11	Pre stressed Concrete & Flyover / Bridge Construction	½ Week
12	Modern Application in Road Construction	½ Week
13	Management	2 Weeks
14	Project Report & Assessment	1 Week
	<b>03 Months (2nd Phase)</b>	
15	Software Programming in Auto CAD / Total Station Survey / Digital Global Positioning Survey, Digital Level Survey	03 Months

### For 3 Months Duration PGDC in Infrastructure

Sl. No.	Subject/Modules - 03 Months (1st Phase)	Duration
1	Conceptualization of Hydro and Thermal Power Stations	½ Week
2	Basic Civil Engineering	½ Week
3	Detailed Survey	1 Week
4	Geological Study & Geotechnical Investigation and GIS	1 Week
5	Hydrological Study	1 Week
6	Heavy earth moving equipment including TBM	1 Week
7	Concrete Technology	1 Week
8	Structure design (Steel & Concrete) and Building	1 Week
9	Piling & Foundation	1 Week
10	Pre stressed Concrete & Flyover / Bridge Construction	½ Week
11	Modern Application in Road Construction	½ Week
12	Management	1 Weeks
13	Project Report & Assessment	1 Week
14	Software Programming in Auto CAD	2 Week

### FACULTY

In-house as well as Renowned/Reputed and well experienced faculty members from Power Industry Infrastructure Development Industry/Contractors/IIT/engineering colleges will be delivering the lectures for the entire program.

### ON-JOB

On-job training will be arranged at the sites of reputed Construction Companies.

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

CBIP has taken this initiative to launch the **03/06 months Post Graduate Diploma Certificate Course in Civil Infrastructure Development Engineering** modular course following the syllabus of National Programme on Technology enhancement program for the fresh graduate engineers who would be groomed as per the requirement of Infra Industry.





Hence, there is an ample scope of placement for making a career in Civil Infrastructure Development area of our country.

## RECOGNISION/CERTIFICATION OF THE COURSE

Certificate will be issued jointly by Central Board of irrigation & Power (CBIP) which is a reputed autonomous body in the field of Power & Water Resources having liaison with various Govt./Semi-Govt./Pioneer-Pvt. Sector Organizations including Central Electricity Authority, NTPC, NHPC, Powergrid, L&T, Gammon India, Delhi Metro Railway and State Irrigation Sector.

*CBIP institute has been recognized as Grade – A Category-I training Institute by Ministry of Power, Govt. of India under CEA regulations-2010. The syllabus of the course is as per the mandatory Training requirements specified in Central Electricity Authority Regulations-2010.*

*CBIP is also a recognized training partner of National Skill Development Corporation (NSDC), Power Sector Skill Council (PSSC) and Skill Council for Green Jobs (SCGJ).*

## ELIGIBILITY

- Bachelor of Engineering or equivalent in Civil Engineering with minimum 60% marks.

*Those appearing in their final year examination can also apply. However, they must submit their degree/provisional degree at the time of counseling/start of the course.*

## SELECTION CRITERIA FOR ADMISSION

The students will be shortlisted based on the merit of the marks obtained by the candidates in Class 10th, 12th & Engineering degree and Common Entrance Test marks, merit wise list of the eligible candidates will be declared in CBIP web site. Admission shall be subject to strict verification of all the original testimonials/documents and depositing of the required fees (given in the brochure).

## COURSE CHARGES

### A. Admission Fee: 03 Months

- (a) **For Non-Sponsored candidates** : Rs. 50,000/- (to be paid in two installments Rs. 30,000 and Rs. 20,000 respectively)
- (b) **For sponsored candidates** : Rs. 1,00,000/- may be paid in two equal installments.

### B. Admission Fee: 06 Months

- (a) **For Non-Sponsored candidates** : Rs. 1,00,000/- (to be paid in two installments Rs. 60,000 and Rs. 40,000 respectively)
  - (b) **For sponsored candidates** : Rs. 1,50,000/- may be paid in two equal installments.
- **Working Lunch & Two Times Tea Charges at Institute** : Rs. 5,000/10,000 (to be paid at the time of joining the course for 3 months/6 months)
  - **Caution Money** : Rs. 5000/- as security deposit which is refundable to be deposited by the student at the time of joining.
  - **Placement Charges** : Rs. 15,000/- to be paid after placement in organizations.
  - **Charges for Lodging/Boarding** : CBIP has tied-up with reputed accommodation providers. Accommodation will be made for lodging, boarding (twin/triple) on nominal charge basis. The charges for the same will be intimated at the time of joining the course.

## 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.

## REFUND

Fee once deposited will not be refunded back. In case a selected candidate wishes to withdraw from the course for any reason, no part of course fee will be refunded except the security deposit.

## HOW TO APPLY

Application may be submitted online through CBIP Website. The downloaded hard copy of the application form along-with the demand draft/multicity cheque of Rs. 500/- in favour of “**Central Board of Irrigation and Power**” payable at New Delhi should reach the Director, CBIP Centre of Excellence, (address given below)

## POINTS TO BE NOTED

- All the future notifications/ information will be available on CBIP website. The candidates are advised to be regularly in touch with the website.
- Please Attach self attested copies of proof of Date of birth, certificates / mark sheets of 10th / 12th / Degree issued by Registrar/controller of the concerned university.
- Application fee is non refundable.
- Candidates are advised to book their tickets in advance to avoid any last moment inconvenience.

## ADDRESS FOR COMMUNICATION

### The Director (E)

CBIP Centre of Excellence,

Plot No-21, Sector-32, Gurgaon, Haryana-121009

Tel No: 0124- 4380272, 4035267

09818737480 (Mr. S.K. Ghosh) / 06375308847 (Mr. B.S. Rohil) /

09871303367 (Mr. Manas Bandyopadhyay) / 09871718218 (Mr. Jaideep)

E-mail: ghoshsk@cbip.org / manasbandyopadhyay@cbip.org / jaideep@cbip.org

## IMPORTANT DATES

Sl. No.	Description	Dates
1	Last Date of Online Application	30.03.2020
2	Last Date of Receiving Hard Copy Through Post	30.03.2020
3	Starting of Course	30.03.2020

## HOW TO REACH CBIP CENTRE OF EXCELLENCE, PLOT NO-21, SECTOR-32, GURGAON, (TRAINING INSTITUTE)

Gurgaon, is the second largest city in the Indian state of Haryana and is a part of the National Capital Region (NCR). It is about 15 Kilometers from IGI Airport, New Delhi. Gurgaon is well connected to Delhi via an expressway (NH8 highway) and Delhi Metro.

