



# **POST GRADUATE PROGRAMME IN CONSTRUCTION MANAGEMENT**

Offered by the Construction Industry Development Council (CIDC)  
in collaboration with Singhania University

## Message from DG, CIDC



**Dr. P. R. Swarup**

For a developing country like ours, Infrastructure is predominant for the economic progress of the country. Though the construction industry is the second largest contributor to India's GDP, civil engineering professionals are perceived to be underpaid compared to their counterparts in other industries like IT, banking etc. This is resulting in students looking to other streams of engineering as a viable career opportunity.

To overcome this problem CIDC is continuously working for the promotion of technical education in construction industry and skill up-gradation of construction personnel. CIDC collaborates with universities and offers programs to increase employability of those aspirants in the country.

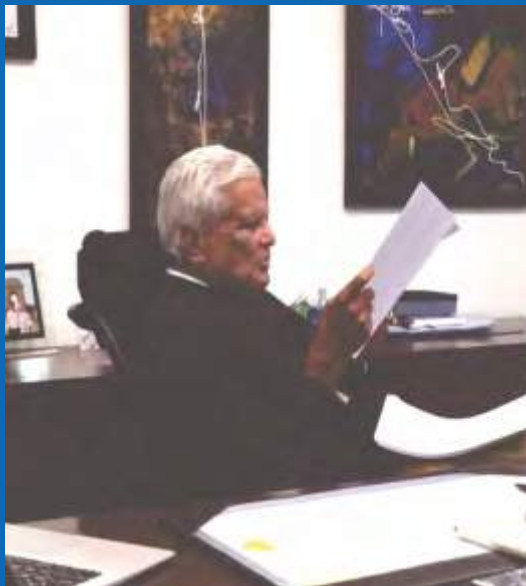
In this context, CIDC has initiated a two years' full time Post Graduate Program in Construction Management (CIDC-PGCM) focusing on Construction Management and Infrastructure Management. The program shall be jointly offered by Singhania University and CIDC, under the active guidance of senior Industry captains.

The Program will have advantage of a Degree offered by a University and program development and delivery by the apex nodal organization in the Construction Sector of India. The CIDC has extensive linkages with Central and State Government Ministries, Public Sector Undertakings (PSUs) and large private sector players. CIDC also enjoys its association with prominent National and International Professional Associations / Organisations related to construction activity & governance.

I believe this program will benefit the students as well as the Construction Industry.

**I wish great success to CIDC-PGCM program.**

# Message from the Founder, Singhania University



**Shri D. C. Singhania**

In today's world, globalization is rapidly increasing, bringing with it expanded personal mobility; access to knowledge across borders; increased demand for higher education & technical skills, growing worldwide investment; and increased need for continuing education. The twenty first century undoubtedly belongs to the men and women of strength and excellence in professional fields.

Education, one of the human resource development strategy, is a powerful tool for peaceful social transformation and for overall development and prosperity of any nation. It should be free from shackles of ignorance, prejudice and unfounded belief. Education is an important index of human development.

Singhania University offers a unique academic environment of continuous influence and interaction considered essential for the enrichment of mind and the body with the maximum of speed and minimum of cost. The University shall always endeavor to emerge as an excellent launching ground for success, helping students to reach the pinnacle of glory in the rapidly developing world. Our goal is to make our students global citizens on completion of their higher education capable of establishing themselves in any part of the world to lead a happy & prosperous life.

To achieve this goal, the University interacts and collaborates with different stakeholders to understand their contemporary needs and to raise the quality of higher education and act accordingly to offer its students a better and meaningful employment opportunities.

Keeping this in view, Singhania University has joined hands with Construction Industry Development Council (CIDC) to jointly offer a Post Graduate Program in Construction Management (CIDC-PGCM) focusing on Construction Management and Infrastructure Management.

The collaborative Post Graduate Program in Construction management will have advantage of Degree jointly developed & offered by Academia & Professionals of the Industry.





# Industry Snapshot

- Construction sector in India will remain buoyant due to increased demand from real estate and infrastructure projects.
- India is estimated to be third largest construction market globally by 2030, with its contribution to GDP increasing to 15% by 2030.
- Size of the India's construction industry expected to be USD 1 trillion by 2025
- Today construction sector is second largest employer in India and is poised to become the largest employer by 2022, employing more than 75 million people
- USD 650 Billion investments in urban infrastructure estimated over next 20 years
- Identification of 99 Smart Cities, having an outlay of USD 31.38 billion
- India's real estate market is expected to reach a market size of USD 180 billion by 2020  
(Source: <http://www.makeinindia.com/sectors>)



The future of young civil engineers is very bright seeing the growth prospect of the construction sector in the country.

Infrastructure is the top most priority of the Government of India. In recent times Government of India has launched massive infrastructure projects like Toilets for all, Housing for all, 100 Smart Cities, National/ Express Highways, Dedicated Freight Corridors, Rapid Rail Transport System, Capacity building of Aviation Sector besides large number of Buildings and Bridges.

The next decade is going to witness phenomenal growth in Construction Infrastructure leading to unprecedented demand of competent (Technical and Managerial) construction professionals at all level.

This period is going to be the moment of reckoning for the construction industry to demonstrate its managerial, financial and technical prowess to establish new benchmarks in Construction Management, Construction Quality, imparting value addition to its products and services in all spheres of construction / infrastructure.



# Programme Overview

It is an acknowledged fact that Construction Industry plays an important role in the progress of Indian economy, which is poised to grow at 7.8% in 2019. With this robust growth, the demands on Construction & Infrastructure, too grows, creating substantial job opportunities for well trained personnel at all levels.

The projected growth calls for conscious efforts, to create a strong cadre of skilled Managers, supervisors & the work persons. CIDC has played an important role in developing trained human resource (Skilled workers & Supervisors) for construction industry over past two decades. Now it is pertinent to shift the focus on developing properly groomed Engineers, who could handle the present day intricacies of Project and Construction Management.

There is also an urgent need to develop and prepare Construction Managers, who could take up sector specific responsibilities. It has therefore been decided to initiate a two years full time Post Graduate Program in Construction Management (CIDC-PGCM).







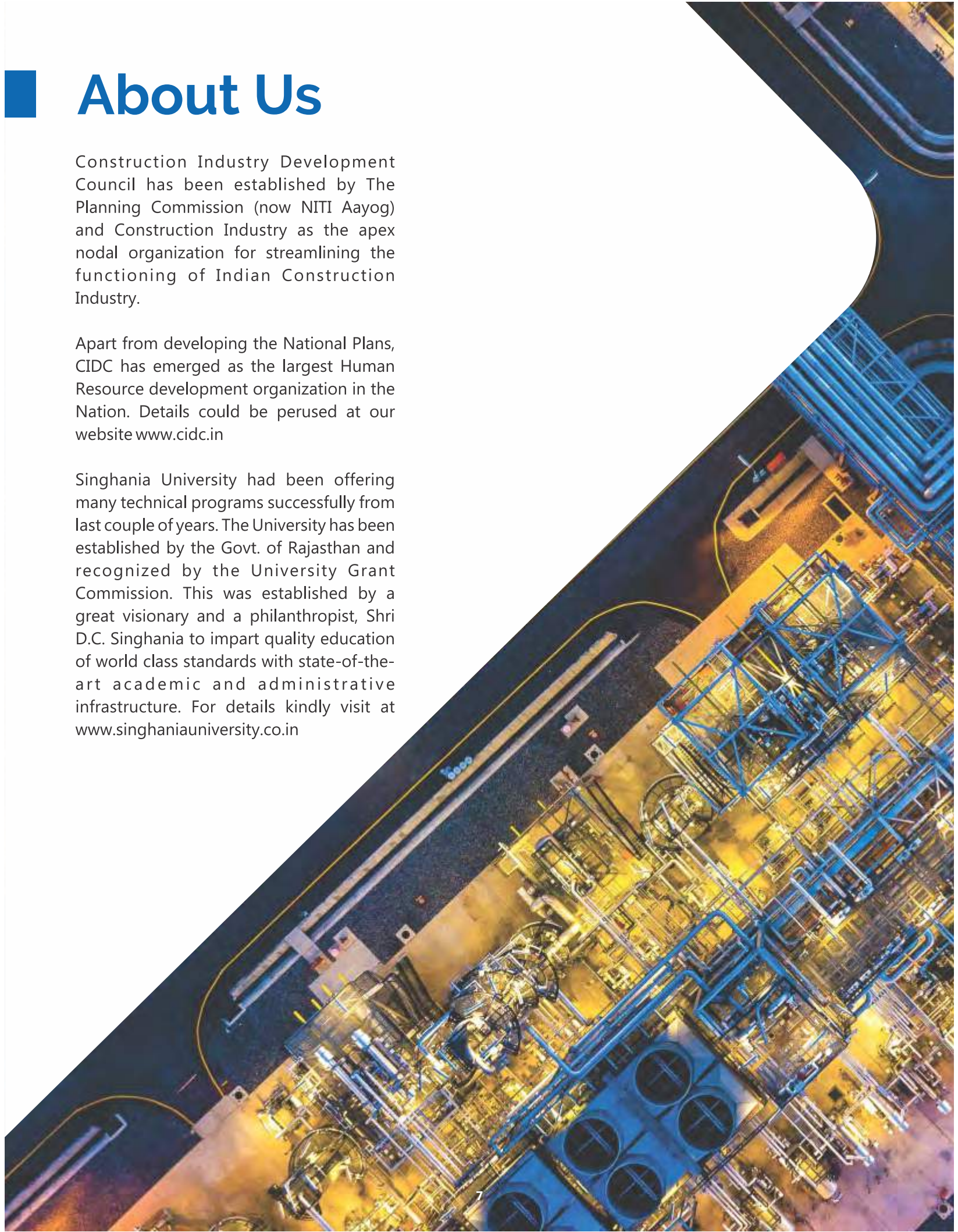


# About Us

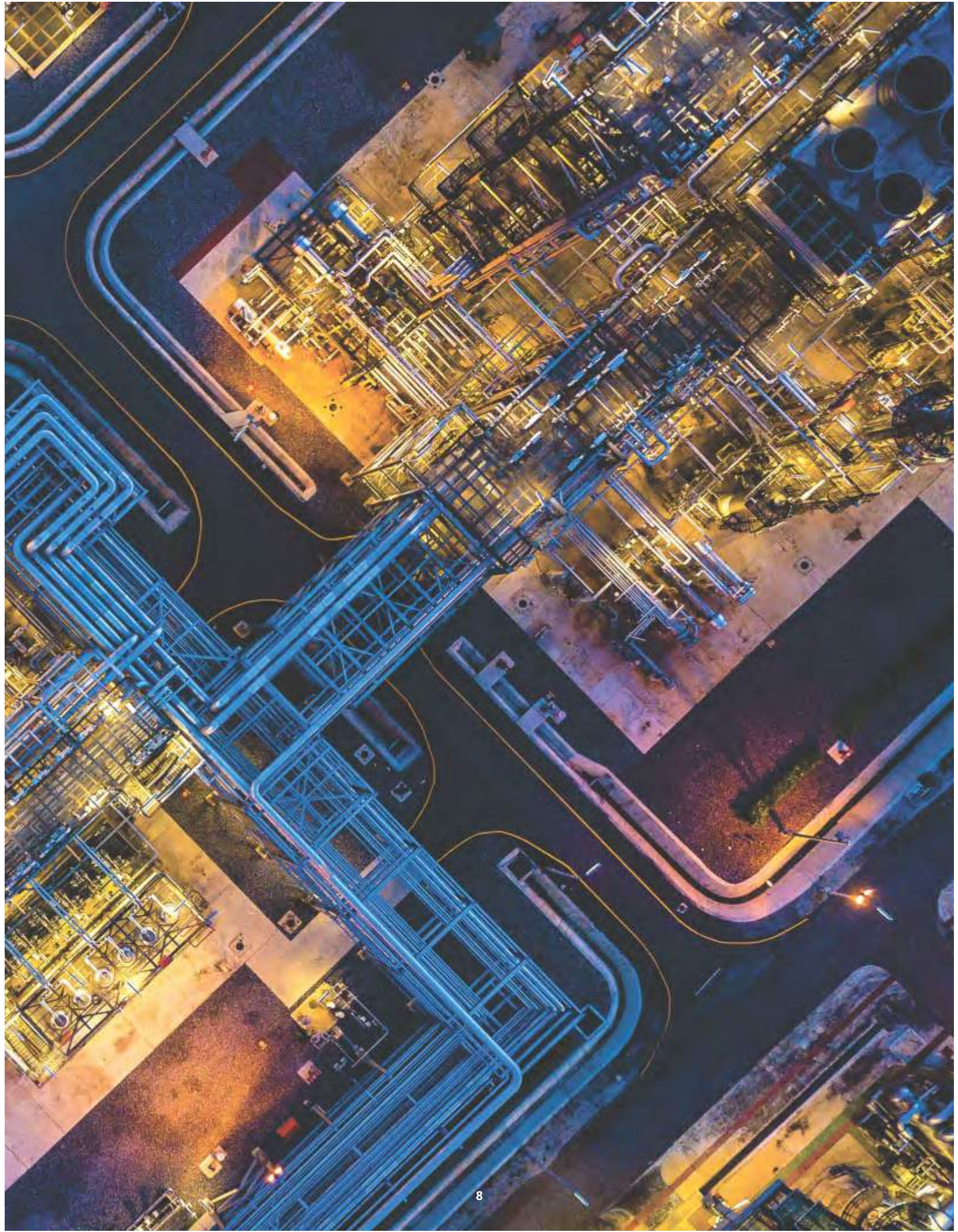
Construction Industry Development Council has been established by The Planning Commission (now NITI Aayog) and Construction Industry as the apex nodal organization for streamlining the functioning of Indian Construction Industry.

Apart from developing the National Plans, CIDC has emerged as the largest Human Resource development organization in the Nation. Details could be perused at our website [www.cidc.in](http://www.cidc.in)

Singhania University had been offering many technical programs successfully from last couple of years. The University has been established by the Govt. of Rajasthan and recognized by the University Grant Commission. This was established by a great visionary and a philanthropist, Shri D.C. Singhania to impart quality education of world class standards with state-of-the-art academic and administrative infrastructure. For details kindly visit at [www.singhaniauniversity.co.in](http://www.singhaniauniversity.co.in)









# Advantage

The collaborative Post Graduate Program in Construction management will have advantage of Degree offered by a University and Program development and delivery by an apex nodal organization representing Indian Construction Industry at National Level.

As an apex body of Construction Industry, CIDC has strong relations with Central and State Government Ministries, Public Sector Undertakings (PSUs) and large private sector players. CIDC also enjoys its association with prominent National and International Professional Associations/ Organisations related to construction Engineering.

**Needless to mention, these existing Associations would be of great help and support in effective delivery of program and placement facilitation.**





# ■ Associate Organisations (National)



## **Andhra Pradesh Real Estate Regulation Authority (APRERA)**

APRERA has been developed under Real Estate (Regulation & Development) Act, 2016. It is assigned to turn Andhra Pradesh Chief Minister Chandra Babu Naidu's vision into reality to develop Andhra Pradesh as an "Innovation Valley" of the country. For this Amravati is their place of experiment.

APRERA is also helping in development of five construction city centres in the state namely APCON. This government scheme will open the doors of employment for thousands of people. To know more visit at [www.rera.ap.gov.in](http://www.rera.ap.gov.in)



## **Engineering Council of India (ECI)**

Engineering Council of India (ECI) is an apex body representing several Institutions, and the professional bodies representing various streams of Engineering discipline, to nurture the engineering profession. The details about ECI are available at web site [www.ecindia.org](http://www.ecindia.org)



## **Indian Society for Trenchless Technology (IndSTT)**

Indian Society for Trenchless Technology (IndSTT) is the autonomous apex organisation to promote the application of Trenchless Technology in India. Founders of this Society include various luminaries from the Construction Sector. Since its inception, IndSTT has taken up various initiatives to develop and popularize the application of Trenchless Technology in the Nation. IndSTT works under the umbrella of CIDC. For details kindly visit at [www.indstt.com](http://www.indstt.com)



## **Builders Associations of India**

Builders' Association of India (BAI) is over-seven decades old all India apex representative body of the civil engineering construction companies. It was founded under the guidance and blessings of Brig. C.V.S. Jackson of Military Engineering Services, 'Poona', now known as 'Pune' in 1941 with an objective to promote and foster feelings of brotherhood, unity, co-operation, mutual trust and to eliminate unhealthy competition amongst the contractors' fraternity. Also to build public confidence in the construction industry by advocating ethics in the business through transparency and accountability. To know more please visit at <http://www.baionline.in>





## CIAC – Construction Industry Arbitration Council

With a view to providing an institutional mechanism for resolution of construction and infrastructure related disputes, the Construction Industry Development Council, India (CIDC) in co-operation with the Singapore International Arbitration Centre (SIAC) has set up an Arbitration Centre in India called the Construction Industry Arbitration Council (CIAC).

CIAC provide facilities for alternative dispute resolution (ADR), which includes international and domestic commercial arbitration. Visit [www.ciac.in](http://www.ciac.in) for more details.



## International Council of Consultants (ICC)

International Council of Consultants (ICC), as the apex representative organization of consultancy services was constituted under the patronage of Former Chief Justice of India Mr. Y.V. Chandrachud and several other senior luminaries from Engineering Profession Mr. R.S. Pathak and Former Judge of Supreme Court of India Mr. H.R. Khanna. Dr. P. R. Swarup, Director General, CIDC is presently the President of ICC and the Governing Council of ICC has representation from several important professional organizations.

For more details please visit at [www.iccindia.org](http://www.iccindia.org)



# Associate Organisations (International)



## American Concrete Institute (ACI)

Founded in 1904 and headquartered in Farmington Hills, Michigan, USA, the American Concrete Institute is a leading authority and resource worldwide for the development, dissemination, and adoption of its consensus-based standards,

technical resources, educational & training programs, certification programs, and proven expertise for individuals and organizations involved in concrete design, construction, and materials, who share a commitment to pursuing the best use of concrete. ACI has over 98 chapters, 146 student chapters, and nearly 30,000 members spanning over 120 countries. More details could be seen by visiting at website [www.concrete.org](http://www.concrete.org)



**CENTRE FOR UNDERGROUND  
INFRASTRUCTURE  
RESEARCH & EDUCATION**

## The Centre for Underground Infrastructure Research and Education (CUIRE), Texas

CUIRE is a university/government/industry cooperative research centre. The organizational structure of the CUIRE provides two lines of authority: The University of Texas at Arlington and the Industry Board (IB). The IB, composed of contractors, owners/public agencies, academics, engineers, general interest groups, and manufacturers, provides policy direction, reviews budgets, and monitors progress of projects.

Find more at [www.uta.edu](http://www.uta.edu)



## Association for the Advancement of Cost Engineering (AACE)

AACE International was founded in 1956 by 59 cost estimators and cost engineers during the organizational meeting of the American Association of Cost Engineering at the University of New Hampshire in Durham, New Hampshire. AACE International is a member of the Board of the Council of Engineering and Scientific Specialty Boards (CESB).

For more details, please visit at web [www.aacei.org](http://www.aacei.org)

# CIDC Members

CIDC has most prominent stake holders as its members and the board comprises of representatives from four Central Ministries, departments of different State Government, Public Sector Undertakings like NHAI, AAI, CPWD, ONGC, IOC, PFC, NBCC etc and major construction companies in private sector- like Shapoorji Palonji, JP Infra tech, L&T, DLF, Gammon India, Simplex, B G Shirke etc.

For more details kindly visit us at [www.cidc.in](http://www.cidc.in)





## Legacy of CIDC Vishwakarma Awards

CIDC has been instrumental in the shaping of Construction Industry since its inception. While pursuing its mandate, it was found necessary to acknowledge the best practices of the industry. That's where CIDC Vishwakarma Awards acknowledging the best of construction activities was constituted a decade ago. During this process CIDC has legacy of association with more than five hundred stakeholders as winners of this prestigious award. This association will certainly be an edge over others in offering most meaningful programme in Construction Management.

To explore more visit us at [www.cidc.in](http://www.cidc.in)









PROGAMME DETAILS	
Programme Name	Post Graduate Programme in Construction Management
Programme Delivery	Construction Industry Development Council
Award of Degree	Singhania University
Eligibility Criteria	<p>B.Tech/B.E (Civil) recently passed students with preferably 65% marks (Average of all semesters)</p> <p>Students appearing in final exams in 2019 are also eligible, provided they have cleared all the subjects in previous semesters and average preferable score is not less than 65%.</p>
Duration	2 years' full time (Four Semesters)
Course Curricula	<p>The program shall be spread over four semesters and the course curricula shall have four sections:</p> <p>Section A : Basic Engineering Recap  Section B : Construction Management -General  Section C : Building Construction Management  Section D : Infrastructure Construction Management</p> <p>The Program will have necessary field visits under complete guidance of expert faculties drawn from Academia &amp; Industry. The evaluation of performance will be based on case studies, group discussions, quiz-competitions, report writing and seminars besides the term end exams, final exam and Grand Jury.</p>
Programme Delivery Mechanism	<p>The program shall be delivered in most effective manner giving appropriate time allocations for theoretical lectures, hands on training, on site exposure, seminars and in-house competitions to enable the participants to become the professionals of highest standard.</p> <p>Lecture Sessions : 52 weeks  Hands on training/ Mock cases : 12 weeks  Guided Field visits : 20 weeks  Seminars and competitions : 02 weeks  Midterm and Final exams : 04 weeks  Vacation during term end : 06 weeks</p>
Total Duration	96 weeks





No. of Seats	<p>It has been decided to initiate the program with a batch of 40 students and would increase the numbers in subsequent years based on industry requirements to make sure that 100% participants are offered jobs on or before completion of their Post Graduate Program in Construction Management.</p> <table> <tr> <th>Year</th><th>Numbers</th></tr> <tr> <td>Year 2019</td><td>40</td></tr> <tr> <td>Year 2020</td><td>80</td></tr> <tr> <td>Year 2021</td><td>120</td></tr> <tr> <td>Year 2022</td><td>120</td></tr> <tr> <td>Year 2023</td><td>120</td></tr> </table>	Year	Numbers	Year 2019	40	Year 2020	80	Year 2021	120	Year 2022	120	Year 2023	120
Year	Numbers												
Year 2019	40												
Year 2020	80												
Year 2021	120												
Year 2022	120												
Year 2023	120												
Admission Process	Direct based on personal interview												
Program Fee	Rs. 1,75,000/- per semester (Residential)												

## FEE BREAK UP / SEMESTER

For Residential	
Tuition Fee	Rs. 91,375/-
Infrastructure & Logistics Charges	Rs. 30,000/-
Lodging and boarding charges	Rs. 37,500/-
University Fee	Rs. 16,125/-
<b>TOTAL</b>	<b>Rs. 1,75,000/-</b>

For Non Residential	
Tuition Fee	Rs. 91,375/-
Infrastructure & Logistics Charges	Rs. 30,000/-
University Fee	Rs. 16,125/-
<b>TOTAL</b>	<b>Rs. 1,37,500/-</b>

<b>Location of Program</b>	<p>Construction Industry Development Council  Basatpur, Link Road, Dhaulana  District - Hapur (U.P.) - 205301</p>
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<b>Contact</b>	<p>Program Coordinator : Ms. Garima Tyagi 7457865464,  Administration : 0120-4157126, 4299659  Director : Mr. Rajeev Jain 9971428882</p>
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# Programme Structure

S.No.	Course Name	Subject Code	Subject Name	Semester	Total Credit
1	PGP-CM	CSU/BER/01	Management of Engineering Drawings, Mode of Measurements, Advance Surveying Techniques	I	5
		CSU/BER/02	Construction Materials Management, Modern Concrete Technology, Advancement in Construction Chemicals		6
		CSU/BER/03	Quality Assurance and Quality Control, Construction Safety Management, Applicable BIS codes in Construction		5
		CSU/BER/04	Tendering, Bidding and Contracting, Quantity Surveying		5
		CSU/BER/05	Arbitration and Dispute Resolution, Statutory Compliances in Construction, Design Principal of Structures		5
		CSU/PS/01	Project Seminar		

**26 CREDITS**

S.No.	Course Name	Subject Code	Subject Name	Semester	Total Credit
2	PGP-CM	CSU/CMG/01	Project Management Systems & Techniques	II	4
		CSU/CMG/02	Project Planning and Monitoring softwares, Latest Softwares for Quantity Surveying		6
		CSU/CMG/03	Construction Economics, Risk Management and Insurance Construction Financial Management		4
		CSU/CMG/04	Construction Value Engineering, Construction Equipment Management		5
		CSU/CMG/05	HR Management in Construction, Project Formulation and Appraisal		4
		CSU/PS/02	Project Seminar		2

**25 CREDITS**



S.No.	Course Name	Subject Code	Subject Name	Semester	Total Credit
3	PGP-CM	CSU/BCM/01	Management of High Rise buildings	III	4
		CSU/BCM/02	Pre Cast Building Technology and Logistics Management, Management of Industrial Structures and Composite Buildings		4
		CSU/BCM/03	Pre Engineered Building Management, Green Building Technologies and Regulatory Provisions, Integrated Building Management System		4
		CSU/BCM/04	Repairs, Retrofitting and Management of Existing buildings		4
		CSU/BCM/05	Management of Sports and Commercial Buildings		4
		CSU/PS/01	Project Seminar		3
		CSU/PW/01	Project Work		3

**26 CREDITS**

S.No.	Course Name	Subject Code	Subject Name	Semester	Total Credit
4	PGP-CM	CSU/ICM/01	Managing Metro Rail Construction	IV	4
		CSU/ICM/02	Management of State and National Highways		4
		CSU/ICM/03	Technololgy and Management of Express Highways in India		4
		CSU/ICM/04	Latest Technology in Elevated Roads and Underpasses		4
		CSU/ICM/05	Construction of Airports and associated Infrastructure		4
		CSU/ICM/06	Latest Technology in Bridge Construction		4
		CSU/PW/02	Project Work		4
		CSU/GJ	Grand Jury		

**28 CREDITS**

**TOTAL CREDIT**

**105 CREDITS**

## HIGHLIGHTS OF THE PROGRAMME

Live Streaming of Projects	<ul style="list-style-type: none"> <li>• Every student will have access to selected ongoing projects through live streaming sitting in class room</li> <li>• The projects shall be one of the high rise building, one Highway project and one Bridge/Railway</li> <li>• The project will be selected in sync with the course duration to enable the students to get exposure on 3 projects from scratch to finish.</li> </ul>
Structured Site Exposure	<ul style="list-style-type: none"> <li>• All the technical contents covered in lectures shall also be explained at live project site</li> <li>• Prior to each visit, scope shall be explained and site visit templet shall be provided</li> <li>• Every visit will be under guidance of an expert.</li> <li>• Post visit, submission of project report is compulsory</li> <li>• Post visit doubt clarification</li> </ul>
Practice Sessions	<ul style="list-style-type: none"> <li>• Majority of subjects will have hands on practise</li> <li>• Exercises designed by the industry experts</li> <li>• Demonstration by experienced foreman</li> <li>• On spot doubt clarification</li> <li>• Evaluation by Industry Experts</li> </ul>
Mock Arbitration Sessions	<ul style="list-style-type: none"> <li>• Cases on variety of disputes actually arises in past shall be discussed in mock Court</li> </ul>
Grand Jury	<ul style="list-style-type: none"> <li>• Students performance will be finally judged by a grand jury, comprised of senior Industry experts and prospective employers</li> <li>• Degree shall be awarded only after satisfying the grand jury, besides university examination.</li> </ul>
Placement Assistance	<ul style="list-style-type: none"> <li>• CIDC being into Skill Development for construction Sector for last two decades has an existing network of all major construction companies in India.</li> <li>• Deserving candidates will get placement on or before completion of their course.</li> </ul>
Educational Loan	<ul style="list-style-type: none"> <li>• Assistance will be provided in availing bank loan subject to the fulfilling banks formalities</li> </ul>



# Satisfied Employers Growing Network of CIDC



JMC Projects (India) Ltd.



Kunnel Engineers & Contractors.



L & W Construction Pvt. Ltd



Pragati Power Corporation



Sai Survey



Keller Ground Engineering



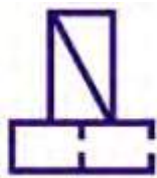
Kanwar Enterprises



Larsen & Taubro



Ahluwalia Contracts



New Consolidated Construction



Sharma Buildtech Pvt Ltd



Shobha Developers



SB Rander Group



Rishabh Buildcon



Afcons



Aashiana Housing



Bharuka Construction



Amrapali Group



Art Asian Tech



Bygging India Pvt Ltd



Cosmo Infra Solution



Daksh Waterproof



Balaji Builders Developers



Gridline



Purnima Builders Pvt Ltd



Navin's



Viraj Constructions



Decon



Orient Electricals



Bajaj Motors



Goodwill Advance Con



E Gram IT Services



Tulsi Construction





Utkarsk Bank



DCR Services



VS Engineering



IP Infra Power



Ramky



KSIPL



BSCPL



Apex



Simplex Infrastructure  
Pvt Ltd



Minda Group



Dynacon Projects Pvt Ltd



MKC Infrastructure Ltd



JBM Group



Suroj Buildcon Pvt Ltd



Vrindera Constructions Ltd



Durocrete Engineering Services Pvt Ltd



Dilip Buildcon



Lumex Lighting



## **Construction Industry Development Council (CIDC)**

(Estd. by the Planning Commission (Niti Aayog), Govt. India)

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