

PROJECT
आस्था

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Association of
Infrastructure
Industry (India)



 **JKcement**
P R E S E N T S

THE CHAMPIONS

— OF CIVIL ENGINEERING —

AN INITIATIVE OF ASSOCIATION OF INFRASTRUCTURE INDUSTRY (INDIA)



About The Initiative

As our country moves toward “Atmanirbhar Bharat” with emphasis on home grown talents responsible for the future growth of the nation, it is very imperative that we recognise few unsung heroes who are working towards the betterment of infrastructure in India.

This book is a salute to few of the Civil Engineers who have contributed and are still contributing towards the growth of sustainable construction in India.

नितिन गडकरी
NITIN GADKARI



मंत्री
सड़क परिवहन एवं राजमार्ग
भारत सरकार
Minister
Road Transport and Highways
Government of India

MESSAGE

I am happy to learn that the Association of Infrastructure Industry (India) is bringing out a Coffee Table Book that contains enriching success stories of Civil Engineers.

From time immemorial, Civil Engineers have played a pivotal role in strengthening the foundation of our nation and the best example of this would be the strong heritage structures we have today that stand tall even after centuries of them being built.

I appreciate and congratulate the Association of Infrastructure Industry (India) for this initiative of recognising the excellent contribution of these Civil Engineers and their mentors. I am confident that this Coffee Table Book will serve as a guiding light for those who aspire to make a mark in this chosen profession.

I wish the Association of Infrastructure Industry (India) and its team members success in their future endeavours.


(Nitin Gadkari)

Date: 29th September, 2021

Place: New Delhi

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MEMBER OF PARLIAMENT
(RAJYA SABHA)



K. J. ALPHONS, IAS (Retd.)

October 6, 2021

MESSAGE

It is time for Civil Engineering to regain its old charm, especially now with India working its way towards standing shoulder to shoulder with all the other developed nations across the globe. For this, the importance of a robust infrastructure cannot be underestimated and Civil Engineers who are considered to be Nation Builders have a paramount role to play. Recognising the contribution of the service of these often unsung heroes has been long neglected. It is certainly commendable that the Association of Infrastructure Industry (India) is taking this initiative to glorify their efforts in a form that shall serve as a learning guide for aspiring Civil Engineers and commoners alike.

What particularly caught my attention was that the book also features special mention of distinguished academicians who have dedicated their lives to the field of Civil Engineering. A connoisseur's collection, this coffee table book is certainly going to find a place on the shelves of each Civil Engineers desk. It would also be a must have for those interested in learning more about the first-hand experiences, trials, challenges and success stories of the eminent Civil Engineers of India.

I congratulate the Association of Infrastructure Industry (India) for taking this initiative ahead.



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SHRI VIVEK GAUTAM

CHAIRMAN SELECTION COMMITTEE

CHAMPIONS OF CIVIL ENGINEERING

CHIEF CORPORATE PROJECTS

ADANI TRANSMISSION



This is always the pinnacle that shines with pride, at a formidable height, basking in the glory of what it actually owes to the foundation stones that remain down below, often unseen and uncredited. Out of all the creations of mankind, the one that leave a long lasting impression are mega civil projects. The enormity of scale, perfection, effort and patience keeps us fascinated for ever. While we remember the visionaries who envisaged and dreamt of the projects, we always tend to forget the great human effort, by those nameless workers who gave their sweat as well as precious years of their lives in the process of creation of these wonders. We all sat together and thought of bringing out these stalwarts to the limelight and recognize them for their immense contribution. The Communities, Organizations and the Nations that attain greatness have this one thing in common and that is recognition of their Heroes. The best example that comes to my mind is that of the armed forces. The great Indian Army has recognized the contribution of Rifleman Sanjay Kumar as well as that of the great Capt Vikram Batra. This is the reason that they never cease to produce more and more Heroes like them.

I am so proud of my brief association with a great team that joined hands and made a sincere effort to search, identify and recognize these super performers. These are very initial steps in the efforts to motivate these soldiers who brave such frontiers. I am sure their recognition will go a long way in creating more and more such Heroes who are our Nation builders. In the changing scenario where all engineers have comfortable working options and opportunities, these are our great guys who chose a profession that's challenging with hardly any options of working from home and needs lot many compromises in order to achieve something big and build the projects that remain to tell a great story for ever.

My best wishes to the winners and hearty thanks to the team members for their valuable time and support. This all could be possible because of the sincere and honest intention of Mr Rajaneesh Dasgupta who envisioned this and toiled hard to make it a reality.

Let me conclude with my favorite line that adds the well earned respect to the creators of these monuments. "Jai Jawan, Jai Kisan, Jai Nirman"

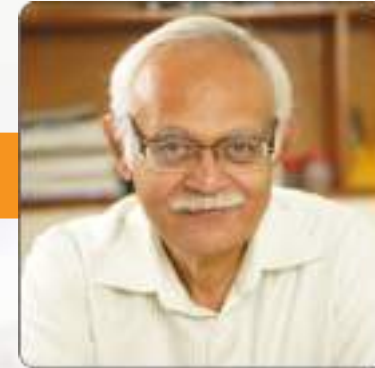
PROF. (DR.) SUDHIR MISRA

CO -CHAIRMAN SELECTION COMMITTEE

CHAMPIONS OF CIVIL ENGINEERING

PROFESSOR DEPT. OF CIVIL ENGINEERING

IIT KANPUR.



As India places and unmistakable emphasis on creating infrastructure to drive further development in the country, it is important that an awareness is created highlighting the diversity of stakeholders involved in the creating the infrastructure. At the same time, the contributions from individuals who have not only excelled themselves but have also perhaps served as role model for others and motivated them to perform at levels higher than 'normal' levels, needs to be recognized. This initiative of the Association of Infrastructure Industry (India) is a step in that direction.

My heartiest congratulations to the Champions cited in this book. We are proud of their achievements and their contribution to infrastructure building in the country. We also take this opportunity to wish them many more laurels in the future.

Modern infrastructure has become very complex, and the roles of different stakeholders – cement and steel manufacturers, designers, architects, consultants, contractors, regulators and owners, has become a lot more intertwined. The role of academicians also needs to be remembered, not only in terms of creating the professionals who go out and practice in the field, but also in being available and helping the industry solve specific problems, and helping create and adopt appropriate technology.

It is only the joint team effort from all professionals involved in different steps of infrastructure creation and maintenance – that will help us create quality infrastructure, that has no proverbial weak link.

Once again, I would also like to congratulate the Champions, and thank the Association for Infrastructure Industry (India) for the initiative and the opportunity to serve on this panel – it has been a pleasure to work with this group, whose efforts made this First Edition possible.

SHRI PUSHP RAJ SINGH

CO- CHAIRMAN SELECTION COMMITTEE,
CHAMPIONS OF CIVIL ENGINEERING

GROUP PRESIDENT SALES AND MARKETING, GREY CEMENT
JK CEMENT LTD.



History has witnessed the great leaps of engineering courage, belief, and innovation that have propelled human civilization forward. Every step of India's progress depends on the nation's infrastructure and engineering prowess. Nation-building ideas together with engineering excellence are the pillars that will make India stand tall amongst the giants.

In this journey, many prolific minds will need to come together to create an era of triumphant winners, and iconic leaders: Champions of Civil Engineering joining hands with the Association of Infrastructure Industry (India), JK Cement has endowed the initiative of Champions of Civil Engineering with complete dedication and passion that recognizes the valiant efforts and inspiring minds of India who have devoted themselves to building a safer and brighter future. Our earnest endeavour is to adapt to the demands of the future with innovation and cutting-edge technology that deliver over and above the aspirations of our customers and the nation.

Our humble initiative brings to light 25 inspiring stories of achievements and success of India's civil engineers who with their exemplary efforts are creating the future of the country. Inspiring young and dynamic new-age civil engineers to aspire and join the revolution to building India's future together.

SHRI RAJANEESH DASGUPTA

TRUSTEE & DIRECTOR GENERAL

ASSOCIATION OF INFRASTRUCTURE INDUSTRY(INDIA)



Infrastructure development is one of the main pillars of development for any nation. India has been witness to some of the major land mark and iconic structures built over centuries. As these structures reminds us of the tremendous talent that our civil engineers possess, the future infrastructure development of the country will further enhance and establish the greatness of our civil engineers. We strive to recognise the unsung heroes of our country who are contributing the acceleration of our nation towards being a “Vishwa Guru”. We salute these 25 Champions of Civil Engineering featured in this edition who have worked relentlessly and some of them still working with a singular passion for better construction in India.



CHAMPIONS OF CIVIL ENGINEERING

2021 -2022



Er. Achal Khare

Er. Achal Khare is one of the renowned civil engineers of India and has been leading the construction of landmark projects in India and abroad. He was the first MD of Mumbai- Ahmedabad High Speed Rail Project. Some of the iconic projects that Er. Khare has been responsible for Seremban-Gemas electrified Double Track Rail Project, Malaysia, Udhampur-Srinagar-Baramulla Rail Project, New railway Bridge over Ganga Near Prayag, Construction of Rail Coach Factory, Kapurthala



Er. Sanjay Londhe

Er. Sanjay Londhe Director & CEO projects, Ashoka Buildcon has devoted his career to development of infrastructure. Amongst the many prestigious roads and bridges constructed under his leadership in India and overseas, is the recent addition of India's First 8-Lane extra dosed cable stayed bridge across River Narmada, Gujarat. He is passionate about innovation and environment-friendly construction technology. He is a member of Board of Governors, National Safety Council of India. He has been honoured as the Engineer of the Year by the Federation of Institution of Engineers, Asia Pacific.



Er. Devinder Chawla

With more than 35 years of experience, Er. Chawla has expertise in providing solution to Repair & Rehabilitation of RCC structures and also involved in execution of such works. He is also a member of many professional institutes where Er. Chawla is often consulted for his expertise. Many projects like Strengthening Coal Handling Triper Building –Talwandi 3x 660 MW Super Critical Thermal Power Plant, Dwalls repair at DMRC LalQuilla Station, New Delhi, Polyurea WP at various stations of DRMC and JMRC, Condition Assessment of Structure-Urban Water Supply Schemes of Rajasthan-SMEC, Rehabilitation of WFL Building, Trident Ltd, Barnala wherein Er. Chawla's expertise was utilized.



Dr. Ishwar Chander Syal

Dr. Syal is retired Professor & HOD of Civil Engineering, Punjab Engineering College, Chandigarh. During his academic tenure, he was involved in Research Work, Software development and guided many M.E. & Ph.D. thesis. He is the Structural Expert/Proof Consultant for Chandigarh, Punjab, Haryana & Himachal Pradesh government organizations like PUDA, HUDA, HSIIDC, PWD B & R Departments, and Tourism Departments etc. and has designed numerous Residential & Industrial Buildings, Bridges, Hospitals, Hotels, Telecommunication Towers, Multi-Level Parkings all across India. He is the author of many famous Technical Books on Civil & Structural Engineering, He is a Life Member of I.S.W.E. & F.I.E. India, Member I.S.T.E., Member of Board of Moderators & Staff Selection boards for T.I.E.T Patiala, Chandigarh University, N.I.I.T Kurukshetra, Member Snow & Avalanche Study Establishment, Ministry of Defense and R&D Center, Chandigarh.



Prof.K.G. Gupta

With specialisation in Environmental Engineering, Prof. Gupta is a professor with Goa Engineering College and has been a member of JHA COMMISSION constituted by Govt. of Goa. Prof. Gupta has a patent on Manufacturing of Bricks using Mine Tilings. Prof. Gupta has been recognised through many awards that has cemented his place among the top civil engineers of the country



Er. Manish Gupta

One of the renowned structural engineer practising in NCR region of the country, Er. Gupta has shaped many renowned structure both in India and outside India. He is known to have many iconic structures like indoor stadium in Raipur, Large Span Structures, Airport at Lilabari, International Airport Ahmedabad, Domestic Airport at Dibrugarh, Ayodhya Airport



Er.Sanjay Mehta

Er. Sanjay Mehta is renowned Civil Engineer and Vastu Consultant based at Jodhpur, Rajasthan. He has designed and completed Architectural Projects in India and Abroad. He has designed and constructed projects in many segments i.e. Residential Villas, Multi storey Buildings, Commercial complexes, Hotels, Schools, Temples, Ashrams, Pyramids, Heritage Buildings etc. He is giving his services as a designer, Structural engineer, Valuer and also Vastu consultant. His commendable work can be seen in prestigious project like Brys Fort, Jaisalmer, Ajit Bhawan Palace- Jodhpur, Ramathra Fort- Karauli, Fort Khatoli- Kota, Amritam Palace- Jodhpur, Various Jain Temple in Nakoda Tirth, Ved Vidhyalaya at Nagaur district, Ram Temple trust and Many more. He has earned recognition for restoration and conservation of Heritage properties.



Prof. Sandeep Chaudhary

Prof. Sandeep Chaudhary is currently working as a Professor in the Department of Civil Engineering and heading the Centre for Rural Development and Technology, Indian Institute of Technology Indore. In 26 years of his professional career, Prof. Chaudhary has served as an academician, a researcher and an industry expert in structural engineering and sustainable construction practices. His group carries out analytical and experimental studies, ranging from the microstructural behaviour of building materials and the development of sustainable building products to the analysis of large structures. His work on sustainable construction materials and products has resulted in two patents and the first technology transfer of the Indian Institute of Technology Indore. Prof. Chaudhary has also engaged in multidisciplinary and international collaborative research to develop sustainable global solutions. The Government of the Russian Federation has recently invited him to create a world-class research laboratory at NPI, Russia, in the next three years. He has served on prestigious committees at the National and International Levels and is presently chairing the Standing Committee-1 (Design) of the Asian Concrete Federation.



Er.D.S. Parihar

Er. D.S.Parihar has designed more than 600 G+3 (& higher) residential, commercial projects along with more than 250 Bungalows. He has provided his services in M.P., Rajasthan, UP, Chattisgarh, Maharashtra, Gujarat, Karnataka, Tamilnadu and many other states of India. He has also desined structures for international clients in Dubai, Bangkok, Malaysia, Bangladesh.

He has done some very difficult retrofitting and restoration projects like Mehandipur Balaji, extension and creation of basement waiting hall in MAHAKAL TEMPLE without removing Trees, seven storied wooden and masonry heritage building in Rajwada Indore. Kamal Palace (G+3 Building), Y.N. Road Indore (complete building) & Foundation strengthening by Tunnelling process.



Dr.J.Sudhakumar

A leading academician presently teaching in NIT Calicut, Prof(Dr.).J.Sudhakumar is the Dean of Faculty Welfare and Professor of Civil Engineering. He has been consulting in Consultancy Works in Material Testing, Non-destructive Testing of Concrete, Acoustical Design of Auditorium. Prof(Dr.).J.Sudhakumar interest in wide range and he specialises in Building Technology, Functional Design of Buildings, Concrete Technology, Building Maintenance, Construction Management, Architectural Acoustics, Building Climatology and many more..



Er.Santosh Kumar

A former Member of Works Advisory Committee of Kanpur University, Allahabad University, IIIT Allahabad & Amethi. and special invitee to IIT Delhi, Er. Santosh Kumar has been involved in the designing and execution of large number of development projects for DOT, during 28 years of service. He has authored a books titled “Manual for Ducted Cable Systems “ and “Advances in Concrete Technology and Rehabilitation of Structures”



Prof.(Dr.)Subhash Yargal

Prof.(Dr.) Subhash Yargal is the Dean (Planning & Development),& Professor - Department of Civil Engineering, NIT, Surathkal. He is working on the assessment performance of use of eco-friendly materials to the extent possible, without undue reduction in mechanical properties of ordinary concrete. Prof. Subhash Yargal has been conferred with Prof. Satish Dhawan Young Engineer State Award 2011 for his out standing contribution in the field of Engineering Sciences.



Dr. Nanjunda Rao K S

Presently working as Chief Research Scientist in the department of civil engineering at Indian Institute of Science, Bangalore. Nanjunda Rao's research interest and contributions are in the broad areas of development of elastic isogeometric and approximate higher order theories and solutions for analysis of composite laminated beam, plate and shell structures, static and dynamic behavior of concrete and masonry structures, use of FRP and other textile fabric systems for repair and retrofit of masonry and concrete structures and alternative building materials and techniques.

His current interests are in the development of products for civil engineering construction utilizing cost effective and environmentally friendly materials and seismic vulnerability assessment of masonry and concrete structures.



Er. Rupesh Kumar

Mr. Rupesh Kumar is a versatile construction professional with more than two decade of experience in India and Abroad includes Mega projects like Cement Plants, Metros, Airports and World Tallest Status. He has been a part of Statue of Unity team since beginning and is the first choice of speaker for presentation knowing “Challenges in Construction of World Tallest Statue”.



Er. Sanjay Sharma

Er Sanjay Sharma is a renowned Structure Engineer and Director of Vijay Tech Consultant. He has designed many of Statue in Orissa, Bihar and Rajasthan. From which one of largest Statue of Lord Shiva (151 ft) in Jajjpur, Odissa, which is resting on 2 Storey. Also he had designed one Shiva Statue in Patna of 124 ft height with 4 Storey Building. He had also designed Shree Ram Statue of 72 ft Height in Alwar-Rajasthan. He has also given his services as Design engineer in restoration of old historic heritage building Rajgarh Palace in Khujraho MP. In health sector, he has provided his Consultancy as design engineer in Rajasthan biggest 18 Storey hospital "Bombay Hospital, Jaipur".



Er. Chandra Prakash Tripathi

Er.Tripathi has been contributing towards the construction of various Hospitals in North West Delhi BSA Hospital, Sanjay Gandhi Hospital, Aruna Asaf Ali Hospital, Hamidia Hospital in Bhopal having 13-14 storeyed towers. East Delhi Hub, Karkardooma, Delhi, a 74 acres smart township with iconic 100 storeyed tower. The township has residential, commercial and institutional buildings. He has been responsible for Paper Publication · Friction Damper for Seismic Control for La Gardenia 18+stilt+2 basement for M/s Unitech Ltd at 12th WCEE



Er. R. Gogia

Er.Gogia has been responsible for some of the challenging construction Decon Factory At Okhla, New Delhi Unit – I, Eicher Tractors Ltd Faridabad & Alwar. Phase - I, Commercial Complex At Durgachowmohani Agartala 6. Ashram Complex At Barsana, Hotel Claridges Naini Retreat Nainital, Cidco Housing At Koparkhairane, New Mumbai. He has been also involved in Total Analysis and Design of Engineered Bamboo Structures of various sizes for NATIONAL MISSION FOR BAMBOO APPLICATION , GOVT. OF INDIA, NEW DELHI



Er. V.P. Agarwal

Mr. Agarwal has over 51 years varied experience in Civil and structural engineering including 11 years in the USA, in designs and design audit of various types of Civil engg. structures. He has been on Part time faculty of Delhi College of Engineering and TVB School of Habitat Studies . Till Dec 2018, he was Visiting Professor at School of Planning & Architecture



Er Chirag K Bakshi

Er.Bakshi has invented a product (which has been granted patent) which makes concrete structures sustainable even with salty, saline, untreated or even sea water without deterioration in any of the end properties of constructed elements. He has to his credit 40 Technical Papers, written (two) draft IS Codes on the topic of “Carbon brick lining” and “Poly Propylene Glass lining” which are under final stage of approval at BIS and have authored a book on the subject of “Anti-corrosive treatment of concrete surfaces” which was published by Austin Macauley Sharjah in November 2020.



Er Devendra Shah

Mr. Shah has expertise in retrofitting, refurbishment and designing of heritage properties with lime and stones. He has designed number of fort walls with 60 to 80 feet retaining height with sandwich stonewalls. He has also received Asia Pacific heritage award in 2003 for fort Nagaur Rajasthan. He also has expertise in large span steel structures. He has designed 300 feet dia column free dome. Under his guidance ducon team has designed 80 meters high commercial building with complete steel structures in Hyderabad. He has designed some prestigious project Like, IIM Udaipur, World Trade Center, (GIFT), Gandhi Nagar, Six Senses Hotel & Resort, Barwara- Rajasthan, Aquatic Center Science City, Ahmedabad. In Seismic Retrofitting he has given his services to Civil Hospital, Ahmedabad, Bharatpur Palace, Bharatpur.



Er Hiren G Desai

Er. Hiren G Desai is in Panel of Structural Engineer for Surat Municipal Corp. He started his career since 1990 and executed more than 1000 Projects. He has been appointed in committees for investigation of Collapse of Flyover Bridge in Surat, Collapse of Slab at Utsav Apt. Surat. He has been awarded for Heritage Concern (Renovation work of Surat Castle). Also did renovation work at Uparkot fort at Junagarh. He has contributed his services to make SRK Diamond Factory Surat , (Which is listed in worlds best Green Building by Leed- Platinum Certificate).



Er. Abdul Majeed

Er. Abdul Majeed is a renowned civil engineer based in Bhopal and he is respected by both the ordinary citizen as well as the government. He is regularly consulted by the state governments and central government in the matter of construction issues. Also, he is regularly training under privileged children to have a career. He has been instrumental in constructing many irrigations projects that has benefited the farmers of Madhya Pradesh and he has built more than 5000 projects



Er. Sangeeta Wij

She is a Structural Engineer with 37 years in Infrastructure and Construction industry in Senior Management Roles. She has received multiple Industry awards and recognitions and is passionate about creating awareness about the need to improve and enhance Structural Safety in Indian Built Environment and has worked with TCIL/ CPWD/ UNDP in India to train Govt. Engineers in carrying out Structural Safety Audits in our Seismically Vulnerable cities. She is a Fellow and Chartered Engineer, Indian Institution of Engineers, member of IBC and CEAI.



Prof.(Dr.) Neelima Satyam

An expert with huge in-depth knowledge, Prof. Neelima Satyam presently is the HOD - Civil Engineering, IIT Indore and is actively engaged in teaching, research and consultancy in the field of geotechnical engineering, particularly in geotechnical earthquake engineering, micro-zonation and site response studies, landslide hazard and monitoring, micro-seismic data processing and rock engineering. She has published over 150 papers in International/National Journals and conferences. She has been the Chairperson of the selection committee for MEXT Scholarships of Japan since 2015. She has been a recipient of many awards in her professional tenure.



Prof.(Dr.) Arindam Dey

Prof.(Dr.) Arindam Dey is presently the Associate Professor, Geotechnical Engineering Division, IIT Guwahati. A specialist who is currently with the Geotechnical Engineering Division, Dept. of Civil Engineering, IIT Guwahati. His research interest lies in Geotechnical aspects of hillslope constructions, Geophysical and Geotechnical investigations, Earthquake Geotechnics, Landslide disaster and mitigations, Geosynthetic engineering, Earthen dams and embankments, Seismic soil-foundation-structure interaction (SSFSI), Rock mechanics and rock engineering, Glacial Geotechnics etc. He has been associated with many consultancy projects both for private and government organizations. He has been a mentor and has been giving research guidance to many students. He has earned many accolades and has been member of editorial groups.



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