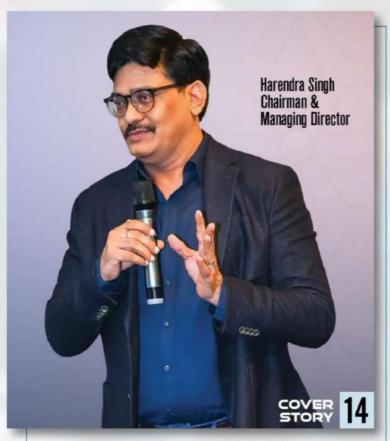


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Tech Innovations Driving Sustainability In Infrastructure Development

Business Outlook TOP 10 MOST PROMISING INFRASTRUCTURE DEVELOPMENTS



Ashish Kataria Whole Time Director Ashoka Buildcon



Ranga Raju MD NCC



Rajeev R A Founder Urban World Consulting

COMPANY SPOTLIGHT

ITD CEMENTATION INDIA



Jayanta Basu Managing Director



Kaushik Nandi Joint EVP & Head of Marine Business Unit



H.G. INFRA ENGINEERING LTD

Setting New Benchmarks in Infrastructure Development in India

he National Highways Authority of India (NHAI) is performing near miracles in the country. According to government sources, the length of national highways has risen by almost 50 percent in the last decade alone. While the total length of national highways was 91,287 km in April 2014, it is now 145,240 km. In truth, it is hardly a wonder as the pace of construction of highways has gone up from 11.6 km a day in 2014 to around 30 km a day now (despite the slowdown in the past two financial years). The construction agencies have already been told to push the pace of road building to over 40 km of highways per day. You might be wondering what changed. The answer to this question lies in the Union Minister Nitin Gadkari's (Minister for Road Transport & Highways) techsavvy mindset that triggered the NHAI's comprehensive digital transformation.



The NHAI migrated to the cloud and a new dashboard to recognize bottlenecks in real-time. It also switched to a new system to transfer the compensation for land acquisition to beneficiary accounts through the Public Finance Management System (PFMS) to fast-track the disbursement process. While these aspects constitute a significant portion of the multivariate success formula, NHAI has also been lucky to have a handful of elite infrastructure construction partners like H.G. Infra Engineering Ltd. (HGIEL) who breathe innovation and freshness while executing projects seamlessly using the technology advantage. HGIEL delivering constant performances and timely execution with no delays has been a significant aspect of the country's central and state governments' infrastructure success stories, thanks to the company's visionary management team that ace corporate governance and close monitoring of execution.

The Success Story: Evolution at Its Best

Having had a humble beginning in 2003 as a small subcontractor in Rajasthan, HGIEL set the foundations right with a focus on quality, seamless, timely execution, and, most importantly, its people. The company had its successful IPO in March 2018 and never looked back. Over the years, the company expanded its business to roads and highways across India as a prime contractor bidding independent contracts with NHAI, MoRTH, Ministry of Railways, DMRC, other state governments, and private players like Tata Projects, Adani Group, and IRB.

Today, HGIEL continues diversifying its business and clientele network by bidding in the Railway, Metro, and Water sectors. With 17 active projects in PAN India, including 14 road & highway construction, two railway construction, and one metro project, HGIEL's order book remains strong at Rs. 12,713 crores as on June 30, 2023. This includes the 151.70 KM stretch of Ganga Expressway, which is HGIEL's largest EPC project with a value of Rs. 4970.99 crores. The company's market capitalization recorded a y-o-y increase from Rs. 3,627 crores to Rs. 5,000 crores in 2022-2023, manifesting a whopping 38 percent increase.

Embracing New Tools & Technologies

Delving deeper into the success story of HGIEL reveals a methodical and transformative approach to construction, turning every challenge into an opportunity. Be it the transformation due to changes in demographics, technological advancements, or the need for sustainable development, the company has been the first to embrace change and, in turn, maneuver it to its advantage. For instance, HGIEL is one of the pioneers in inducting digital tools, sensors, and various automation processes to ensure proper asset management and adapt to changing



climate conditions. The company getting a grip on precasting to have better quality control, expedite casting, and increase productivity is a case in point.

Today, as the industry embraces Artificial Intelligence (AI) technologies, HGIEL is well-positioned to revolutionize how infrastructure projects are planned, executed, and maintained. "Al-driven design software can analyze weather conditions, and demographic data to create more efficient road and rail network layouts. Advanced algorithms can optimize design parameters, such as road curvature, bridge spans, and track alignments, reducing construction time and costs," asserts Harendra Singh, Chairman & Managing Director, H.G. Infra Engineering Ltd. He adds, "AI can process vast amounts of construction data to provide valuable insights. Project managers can make informed decisions based on realtime data, leading to better project outcomes". HGIEL leverages AI across its operational areas, including, but not limited to, Predictive Maintenance, Construction Automation, Resource Allocation, Risk Management, and Safety Enhancement.

Nevertheless, technology alone can't get you over the line. Bill Gates once said: "The first rule of any technology used in a business is that automation applied to an efficient operation will magnify the efficiency. The second is that automation applied to an inefficient operation will magnify the inefficiency." Over the years and decades of experience, HGIEL has built a strong in-house team that performs clinically throughout the lifecycle of a project. The company has departments dedicated to Planning, Design, Operations, and other functions that smoothen the intricacies through a



centralized project management system. They monitor the longevity of structures, considering a life span of 100 years.

Going Beyond the Norms to Set New Benchmarks

The company returns this commitment to its workforce with an excellent work and safety culture. Harendra Singh adjoins, "We have received several recognition and awards for our efforts in achieving outstanding safety performance. We have a record of zero Loss Time Injury (LTI) over the years. One of the reasons behind this is that leadership is actively involved in promoting and supporting health and safety initiatives. We have an established culture of continuous improvement in health and safety practices. We regularly review incidents and near misses to identify areas for improvement. We have Created Health and Safety policies, which are communicated to all employees and regularly reviewed and updated." The company even regularly practices emergency response plans, including fire drills, evacuation procedures, and first-aid training, ensuring that all employees know how to respond in case of emergencies.

HGIEL goes beyond the industry norms and standards not only in employee safety but also in overall compliance adherence. With a centralized Compliance Tool as the internal control system, HGIEL has developed and implemented various Standard operating procedures (SOPs) and processes for compliance management during the execution of infrastructure projects that involve multiple government agencies and compliance requirements.

Furthermore, the company boasts well-established research & development centers with advanced and latest testing equipment and skilled and professional staff. Moreover, the company confines its construction materials purchases to trusted and approved primary manufacturers, and the materials are subsequently rigorously tested at in-house and external NABL laboratories in line with approved inspection and quality assurance plans. "We ensure certification and approval of every activity before execution, including material and machinery validation through mockups. And the final product is inspected and tested before handing over to the client," adds Harendra Singh.

En Route to the Future

The infrastructure construction market in India has witnessed significant growth over the past decade and is likely to continue evolving for several reasons. The government's efforts to improve the ease of doing business are attracting more private sector participation in infrastructure projects. Sustainable and eco-friendly infrastructure practices are gaining importance, focusing on reducing the environmental impact of construction projects.

With its cutting-edge, transformative approach and a firm grip on sustainability, HGIEL is ideally positioned to leverage the opportunities. "We forayed into Hybrid Annuity Model (HAM) projects as India is increasingly pushing a public-private partnership model, and we are extensively looking at project opportunities that can be monetized and deliver a healthy IRR completion," concludes Harendra Singh. ABO







Engineering Dreams, Constructing Realities: Where Vision Meets Infrastructure

Infrastructure development consultants play a pivotal role in shaping the physical and economic landscape of a country like India. With its vast and diverse terrain, India relies heavily on these consultants to design, plan, and execute projects that span across transportation, energy, water resources, and urban development. They are catalysts for progress, navigating the intricate web of challenges inherent in a developing nation. As India continues its journey toward economic growth and modernization, the role of infrastructure development consultants remains indispensable in steering the nation towards a brighter and more sustainable future.

Transforming Landscapes, Empowering Futures: Infrastructure Excellence Unleashed

Infrastructure development consultants in India are instrumental in navigating the complexities of these projects, from inception to completion. They bring a multidisciplinary combining engineering, environmental approach, considerations, and socio-economic factors to create comprehensive solutions. One of the critical areas where these consultants contribute is transportation. Infrastructure consultants work on designing modern highways, bridges, and public transit systems, addressing the challenges posed by the country's diverse topography and increasing urbanization. Energy infrastructure is another key focus. Consultants in this field are engaged in developing power generation projects, including renewable energy sources. Water resources management is a crucial aspect of India's infrastructure development. Consultants play a vital role in designing and implementing projects related to water supply, irrigation, and flood control. They incorporate ecofriendly practices into their designs, mitigating the impact of infrastructure projects on ecosystems and biodiversity. This approach aligns with global efforts to balance development with environmental conservation.

Asia Business Outlook magazine provide insights on diverse industries and markets in Asia. In this issue, the magazine spotlights 'Top 10 Most Promising Infrastructure Development Companies & Consultants in India- 2023' who have made their signature in the world market through their expertise and innovations. The following list has been prepared after being closely scrutinized by a distinguished panel of judges including CXOs, analysts and our editorial board. We recognize their valuable contribution to the ever expanding and competitive market and their ability to sustain themselves and emerge as top contestants through their reliable products and services.

AMR Group

Hyderabad amrgroup.in

A dynamic company has diversified into various verticals such as mining, irrigation and construction and have excellent reputation in the industry

ARINEM Consultancy Services

New Delhi arinem.com

An innovative consultancy firm offering consultancy for architecture, interior design, Infrastructure, engineering and management services, specialized in monolithic concrete construction technology

Ashoka Buildcon

Nashik ashokabuildcon.com

A pioneering firm contributing to infrastructure development with the support of relevant authorities and by utilizing industry knowledge gained over the years to overcome these challenges

H.G. Infra Engineering

Jodhpur hginfra.com

A fastest-growing construction firm, specialized in the road and highway sector, is expanding its business and clientele network by bidding on railway, metro, and other infrastructure projects.

ISC Projects

Pune iscprojects.co.in

A versatile infrastructure company with more than five decades of rich and varied experience in the indian infrastructural landscape, specializes in counselling design and construction of major/minor bridges and more

ITD Cementation India

Mumbai itdcem.co.in

A formidable company of infrastructure construction and development With nine decades of dedicated service such as ports, underground & elevated metros, roads & highways, bridges and more

Keller India

Chennai kellerindia.com

An experienced firm technique solve a wide range of challenges across the entire construction sector such as industrial, commercial and housing projects to infrastructure construction for dams, tunnels, transportation and more

L&T Infra Engineering

Chennai Intiel.com

An independent, engineering consulting firm providing single point consulting services for all transportation infrastructure projects from concept to commissioning















NCC

Hyderabad ncclimited.com

A luminary player in the infrastructure consultancy market, expertise in constructed numerous pathways ranging from expressways, highways, elevated corridors and even metro routes

Urban World Consulting

Mumbai urbanworldco.in

A prominent firm offers a wide range of services to meet the various needs of urban local bodies and infrastructure projects across diverse sectors, providing services such as financial management, surveys, modelling, mapping, estimations, and more