

Infrastructure and Construction Sectors Building the Nation



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Message from KOTRA

Diplomatic relationship between India and Korea can be traced back to December of 1973 when both countries started to post Ambassadors in the respective nations. In January 10th, 2010, our relationship was further upgraded when a Comprehensive Economic Partnership Agreement, or CEPA was formed. This year, the Korean president, her excellency Geun Hye Park has come to India to attend the Bilateral Summit between Korea and India, further strengthening our cooperation ties.

With the intention of playing a significant role in the infrastructure development in India, KOTRA and Deloitte India have published this report.

In 2008, when the US economy was in crisis, India was able to sustain its economic growth by relying on its domestic market.

Yet with the continual global economic slowdown, and the ensuing rate hike due to inflation, India too is witnessing a slow down in its economic growth.

In light of this, for India's economy to reach another level in becoming an economically stable nation, focus has to be shifted from a service oriented economy to becoming a manufacturing based economy. Playing a major part in enabling this shift is ensuring that the supporting infrastructures are in place.

The Government of India is aware of the need to develop a modern road network, power plants, and communication facilities, that will play a key role in its rapid development, and are actively seeking investments in developing the necessary infrastructures by creating plans such as the 12th 5 Year Plan (from 2012 to 2017) where 1 Trillion Dollars has been committed.

Of this, 500 Billion Dollar is expected to come from the private sector, drawing a lot of attention from international companies.

During Prime Minister Manmohan Singh's visit to Korea in 2012, his excellency asked Korean companies to

participate in the development of India's infrastructure.

McKinsey & Company predicts rapid urbanization growth, wherein 2030, the population in cities across India is expected to reach 590 million people (double of what is present in the US currently), with more than 13 cities are expected to have population exceeding 4 million and 6 with over 10 million people. Though these are the promises of opportunities McKinsey has stated regarding the Indian infrastructure development market, they further mention some of the difficulties they have identified that need to be overcome.

They are, convincing the stakeholders, regional policy decisions effecting the acquisition of land, difficulties in acquiring financing for existing projects, lack of skilled manpower, and frequent changes to plans by the clients.

Regardless, Korean companies, who have worked in more difficult environments, are successfully establishing themselves in India.

In May of 1993, Hyundai Engineering and Construction was the first Korean infrastructure company to establish in India and completed a 62 million dollar hydro electric power plant in 2004.

Since then, Samsung C & T has completed projects in the Metro sector, Doosan Heavy Industries & Construction in the power plant system sector, Samsung Engineering in the petrochemical plant sector, showing a precedent of how Korean companies are actively collaborating with India.

The government bodies issuing these projects that I have met with tell me that they are impressed with Korean companies ability to implement complex engineering projects, and the ability to complete projects on time even when there are difficulties involved.



A handwritten signature in black ink, appearing to read "Dongseok Choi".

Dongseok Choi
Director General
Korea Trade Center,
New Delhi



Korean companies are typically more than 20% more price competitive than companies from Germany, the US, or Japan, and possess skill sets, quality, and durability ideal for the Indian market, making them the ideal partner for infrastructure and city planning development projects in India.

Korean companies possess both the skill set and experience in fields such as high-rise construction equipment, electrical vehicles, automation fare collection system, highly skilled bridge construction, environmentally friendly sewage and waste treatment, water purification, clean/recyclable energy, smart city, and intelligent transportation system.

Though an economic crisis has been forecast for India, compared to other nations, India has been continually maintaining a high economic growth rate.

It is said that, for an elephant to start running, though it may take time, once it starts to run it is extremely fast. We are currently preparing the road for the elephant, or rather, for India to start running.

With the inception of CEPA between Korea and India, cooperation between the two nations have increased. In particular we hope that this will translate to the infrastructure construction and engineering segment, where we have companies who are finding a new home in India.

About KOTRA

KOTRA, initially the Korea Trade Promotion Corporation, was established in 1962 as a national trade promotion organization. Since then, it has successfully facilitated Korea's rapid export-led economic development through various trade promotion activities such as overseas market surveys and business matchmaking.

In August 1995, cross-border investment promotion and support for technological and cooperation projects was added to KOTRA's mandate, and it was renamed the Korea Trade-Investment Promotion Agency (KOTRA). KOTRA currently operates Invest KOREA, the national investment promotion agency.

KOTRA is now well-equipped to pursue its twin mandates of trade and investment promotion to enhance national prosperity and competitiveness, with the ultimate goal of positioning Korea as the business and economic hub of Northeast Asia. With its long-term experience and expertise, KOTRA serves and assists all interested parties worldwide to do business with Korea.

In order to execute its mandates more efficiently, KOTRA has opened an extensive worldwide network of 121 overseas Korea Business Centers (KBC) in 83 countries.

KOTRA Academy was launched in 2003 as a professional learning center for international business. After Contact KOREA's being launched with the aim of attracting global talent to Korea in 2009, KOTRA can now serve and meet well the needs of Korean businesses to train and find human resources in and out of Korea, which will eventually be able to become the global talent hub with help of KOTRA.

KOTRA has extended its business areas to explore new overseas opportunities for Korean companies, such as identifying resource development projects in unexplored resource-rich countries, and supporting the development of eco-friendly industries to realize low-carbon green growth and new growth engine industries, as well, including IT, BT, finance and culture.

At the current stage, we are facing a critical point at which we must take a leap forward to join the ranks of truly advanced nations. With a renewed commitment, KOTRA is moving ahead, well-equipped with the necessary knowledge and creativity as its disposal to do so. By refining its customer satisfaction management skills, KOTRA has become a global business providing substantial support to Korean companies competing on the global stage.

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Message from Deloitte

While the level of development of any economy can be judged by its infrastructure, the level of investor enthusiasm can be gauged by its construction industry. Construction activities contribute more than 10% to India's annual GDP and this is one of our largest employers in the unorganized sector.

The Government of India has projected very large investment requirements for providing infrastructure to specified norms and also supporting the growth process. They have also identified the need for introducing modern technologies to increase the speed and efficiency of developing this infrastructure. Therefore, the Government of India is actively striving towards stimulating construction activities in the country.

At Deloitte we have been closely associated with the rapidly evolving infrastructure and construction market

in India. We believe that there is immense scope for Korean companies to conduct business in this sector. This publication provides an overview of major infrastructure sub-sectors as well as construction sector in India. We believe these sector snapshots will apprise you on current sector drivers and help you identify major programs initiated by the government for each sub-sector. The report also aims to help you identify the recent policy and regulatory initiatives to boost construction activities in the country.

I do hope that this report will provide you a renewed perspective on Indo-Korean business prospects in the sector. We welcome your feedback and look forward to interacting with you.



Amrit Pandurangi
Senior Director and India
Leader – Infrastructure
and Capital Projects
(I&CP)



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Indian Market Overview

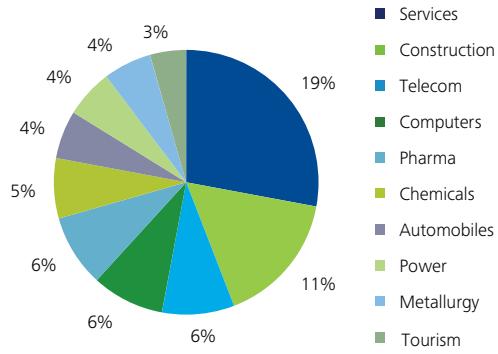
The neo-liberalization efforts of the past two and a half decades have piqued the curiosity of international community towards opportunities in the country. During this period, India has grown at twice the global rate, showing that it can sustain the momentum.

The Indian Government has identified Infrastructure as one of the key drivers of economic development in the country. Investment in Infrastructure has increased from about 5% of GDP in the 10th Five Year Plan period to 9% in the 11th Five year Plan Period. India's planning commission has projected an investment of US\$ 1 trillion for the infrastructure sector during the 12th Five Year Plan, with 40 per cent of the funds coming from the private sector. At the minimum, 45% investment in infrastructure is towards construction & 20% of the infrastructure spend will be for modernization of the construction industry. In order to attract such investment, the Indian government has eased foreign direct investment (FDI) norms for quite a few sectors of infrastructure development.

Construction sector in India is considered to be the second largest employer and contributor to economic activity, after agriculture sector. Construction sector also accounts for most inflow of FDI after the services sector and employs more than 35 million people in the country. 50% of the demand for construction activities in India comes from the Infrastructure sector, while the rest comes from Industrial activities, residential and commercial development etc. Indian Construction Industry value is estimated to be more than US\$ 126 billion.

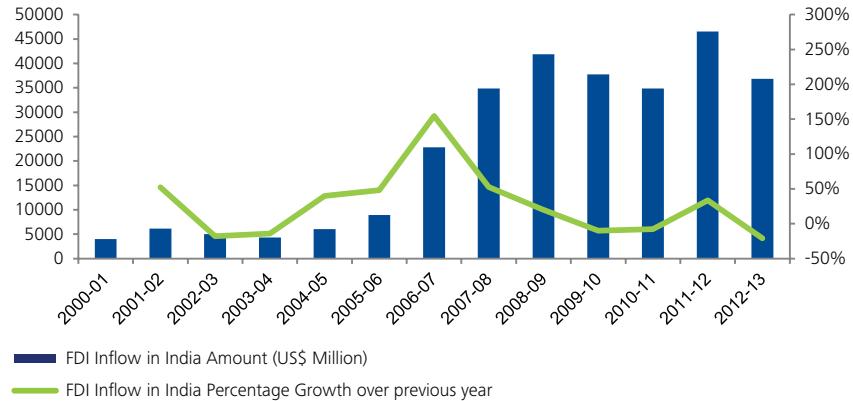
The Indian Infrastructure and Construction Sectors have moved out of their nascent stages. For the past few decades, both government as well as private developers were targeting the "Low Hanging Fruits", i.e., projects which were easy to execute and provided the maximum economic benefit. However, now there is substantial opportunity to undertake complex and complicated projects wherein the competing factor for construction majors shall not only be cost efficiency but also technological competence and efficiency.

**Sector wise FDI Equity Inflow
(April '00 to October, '13)**



Source: FDI Statistics till October 2013, Department of Industrial Policy and Promotion

FDI Inflow in India



Source: FDI Statistics till October 2013, Department of Industrial Policy and Promotion

Indian Infrastructure Sector Story



Roads and highways

India has one of the largest road networks in the world, behind only the United States and China. Roads account for 80 per cent of passenger traffic and 65 per cent of freight traffic in India. The annual growth of road network in India is projected at over 12% for passenger traffic and over 15% for cargo traffic.

Indian Road Network is divided into National Highways, State Highways/PWD roads and rural roads. The Indian Government estimates around US\$ 27 billion plus private investment is required over FY12-FY17 to improve the country's road infrastructure.

The National Highways Development Project is a project to upgrade, rehabilitate and widen major highways started in early 2000s. NHDP is planned to be implemented over seven phases. The program envisages an investment outlay of over US\$ 40 billion. Currently 33,500 kms are already developed or are under implementation with balance 21,000 kms are yet to be awarded. Extensive contribution of the private sector is being utilized for implementation of NHDP through contracting and Public Private Partnership (PPP).

The procurement process for highway developers/contractors is highly streamlined and concession agreements and other agreements have been standardized by the government. The processes are oriented towards players with good experience and sound financial strength. Additionally, a lot of states are also actively developing their highways with the

help of private sector. While the average value of these projects is smaller than the NHDP projects, most will still be substantial and provide a good entry point for those looking to delve into the Indian market.

Sensing a change in the economic scenario of the country and taking into account feedback from various developers, the government is pushing towards a stronger regulatory regime by setting up of an Independent Regulator specifically for road sector projects in the country. Revision to the bidding process and documents in view of changing economic & market landscape is also underway.

Airports

There are a total of 454 airports in India, out of which around 90 are open for commercial services and 16 are designated as international airports. Delhi and Mumbai are by far the busiest airports in India, carrying almost 2.5 times traffic as the next busiest airport.

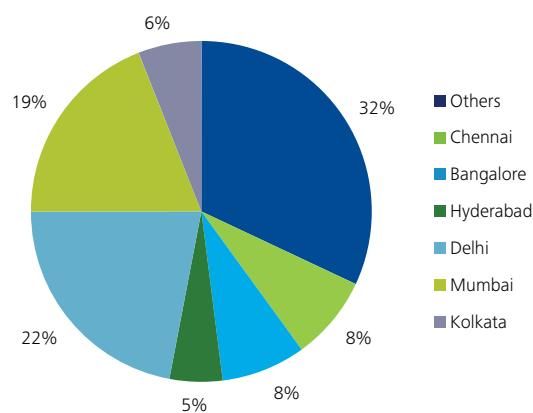
Air traffic has increased rapidly in the last decade, although this has slowed down in the last few years. During the period 2007-08 to 2012-13, Passenger traffic and Freight traffic grew at a cumulative annual growth rate of 6.4% and 5.0% respectively. Indians are still flying in much greater numbers. However, a number of Indian airlines have faced challenging market conditions in the recent years, and the rate of growth is likely to be significantly less than initially projected, estimates suggest that passenger traffic is expected to grow to 320 million by 2022-23 (an annual cumulative growth rate of 8.44%). It is anticipated by the civil aviation ministry that domestic cargo will grow by 8 times during

the period 2009-10 to 2031-32 from its level of 2009-10 whereas international cargo will grow by 7.6 times. The growth so achieved has put tremendous pressure on current airport infrastructure in the country. The Indian Government has projected that an investment of around US\$ 12 billion in the next five year plan will be needed to help cope with additional demand, and private sector participation is expected to play a key role. 75% of the investment envisaged in the next five year plan is expected to be contributed by private sector.

The private sector has already invested heavily to upgrade the airport infrastructure in several cases, with private participation in recent years at Delhi, Mumbai, Hyderabad, and Bangalore. Greenfield airport projects are planned in emerging Tier II cities such as Goa, Pune, Navi Mumbai, and Kannur. Further, 35 non-metro airports are proposed for development, which provide excellent avenues for private contracting and bringing in international technologies for construction.

As the demand for airports increases, increased competition is likely to bring new issues into focus, such as corporate governance, transparency and technological excellence. Airlines will also be looking for new technology solutions to maximize revenues and reduce costs. Maintenance, Repair & Overhaul facilities could therefore also present new business prospects.

Airport wise Passenger Traffic Share (%) (April to June Quarter 2012-13)



Source: India Infrastructure Magazine

Railways

Indian Railways has the world's fourth largest rail network comprising 115,000 km (71,000 mi) of track over a route of 65,000 km (40,000 mi) and 7,500 stations. Indian Railways carried 1,009 mn tonnes of Freight Traffic and 8,501 mn passengers (more than 23 mn daily) in the FY 2012-13. There is an estimated annual traffic growth of 4% to 5%. Indian Railways is also the world's second largest employer with a workforce of 1.5 mn.

Indian Railways is one of the largest systems of passenger carriers in the world. However, passenger services tend to be cross subsidized in India through Freight earnings. Almost 70% of total earnings of Indian Railways come through freight services.

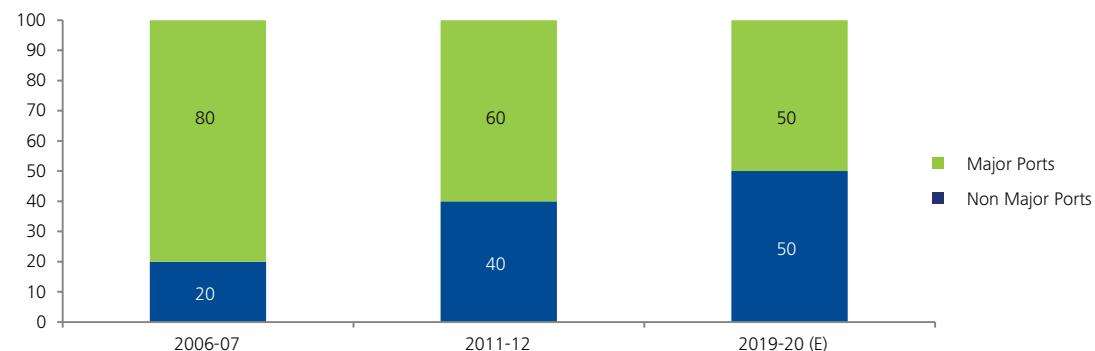
The Indian Railways network has an Operating Ratio of almost 90%. The Indian Government has recognised existing infrastructure gaps and capacity constraints in the rail system, and as a consequence plans large scale investment over the next five years. Projected investments total US\$ 86.5 billion, of which 19% is expected to be contributed by the private sector.

One major programme intended to attract private investment is the Dedicated Freight Corridor project. The project is intended to decongest the routes between Delhi & Mumbai and Delhi & Kolkata by building dedicated cargo lines at an estimated cost of US\$ 6 billion-7 billion.

Other initiatives undertaken to attract investments include the development of rolling stock factories with long-term offtake guarantees. Further, City metro systems have come up in India in a big way over the last 10 years. Indian Railways is also looking for private partners to help modernise railway stations to world-class levels. Further, port connectivity projects are also a focus area of the Indian Railways.

Recently the Government of India has also allowed private sector to set up rail connected freight terminals. Further, the monopoly of government operated rail system has been loosened by allowing private sector to run their own rakes for containers, freight, automobile etc.

Growth of Non-Major Ports Market Share



Source: Directorate General of Civil Aviation website

Ports

India is blessed with a coastline of more than 7500 kms and countless opportunities for natural ports. Ports in India are classified as Major and Non-Major Ports. There are currently 13 Major ports in India, out of which are under the jurisdiction of Central Government of India. Additionally, there are more than 180 non-major ports governed by the state governments. However, only about 60 of these non-major ports are currently operational.

The eastern coast of India generally deals with Bulk Cargo, while the western coast deals majorly in containerized cargo transport. Ports in India handle more than 90% of the country's trade by weight. Overall Indian ports handled close to 1 Billion MT of cargo in 2012-13. Port traffic expected to grow at a CAGR of 12% to reach 2500 million tonnes by 2019-20, with non-major ports expected to lead the growth and ease capacity constraints of Major Ports. 43 port modernization and expansion projects are currently under implementation with an estimated cost US\$ 2 billion. These projects are expected to provide capacity addition of about 220 MT.

Current capacity of major ports in India is 745 MMT against the traffic of 545.79 MMT 2012-13, giving them a capacity utilization of 73%. India's existing ports infrastructure is not sufficient to handle the increased loads, even where ports have already been modernised. There are capacity constraints with containerization level at only 25% as compared to global average of 60-70%. Further, ports face huge congestion and average time for clearing import-export cargo is about 19 days. This is due to bottlenecks at almost all levels of the chain, including cargo handling and offtake capacities of road/

rail connections.

Improving transport networks is just one of many challenges currently facing India's ports, which have seen massive swells in the amount of goods transported. In addition to improving road and rail connections, projects related to port development (construction of jetties, berths, container terminals, deepening of channels to improve draft, etc.), will provide major opportunities for construction firms.

It is understood that port authorities are looking for major technological inputs and significantly improve mechanization in the ports in order to improve cargo handling capabilities.

An independent tariff regulatory authority has been set up to facilitate projects at major ports, which has recently come up with new tariff guidelines to ease tariff norms for new major port projects.

Water and Solid Waste Management

As a rapidly urbanizing nation, India is facing major constraints in its water and waste water management sector. The country is home to 18% of the world's population, but contains only 4% of its water resources. Almost 90% of the usable water in the country is utilized for irrigation purposes. Realizing this, the government of India is providing a sustained impetus towards improving water and waste management infrastructure in the country.

Total waste water generated by industries in India is about 90 thousand mld, of which only about 21% is treated. Further, less than half of solid waste generated in municipalities in India is treated.

In India's governing system, water and waste management is the responsibility of state government. Almost all state government have given this task to Urban Local Bodies for major cities. India's Water Sector is worth more than US\$ 1 billion, much of which consists of Industrial Water Treatment and Municipal Water Treatment.

The government of India is encouraging private investment in this sector through various initiatives. They are implementing stringent water quality standards and environmental regulations to drive increased spending, and introduce technology implementation. The government reforms are primarily guided by 3 policies/programs:

- Jawaharlal Nehru National Urban Renewal Mission.
- National Water Policy, 2002
- National Water Mission

As part of these reforms, priority is being given to private sector participants to invest in water infrastructure in India

Urban Infrastructure

Only 30% of Indian population lives in urban areas. As per government of India estimates, urbanization in India is expected to grow at an astonishing rate of 38%. Indian Urban Infrastructure and Services, parts of which still bear markings of its British heritage, clearly isn't adequate to deal with such pressure.

Over the next 20 years, it is estimated that US\$ 650 billion investment is required in urban infrastructure. Of

this, almost 45% is required for development of urban roads.

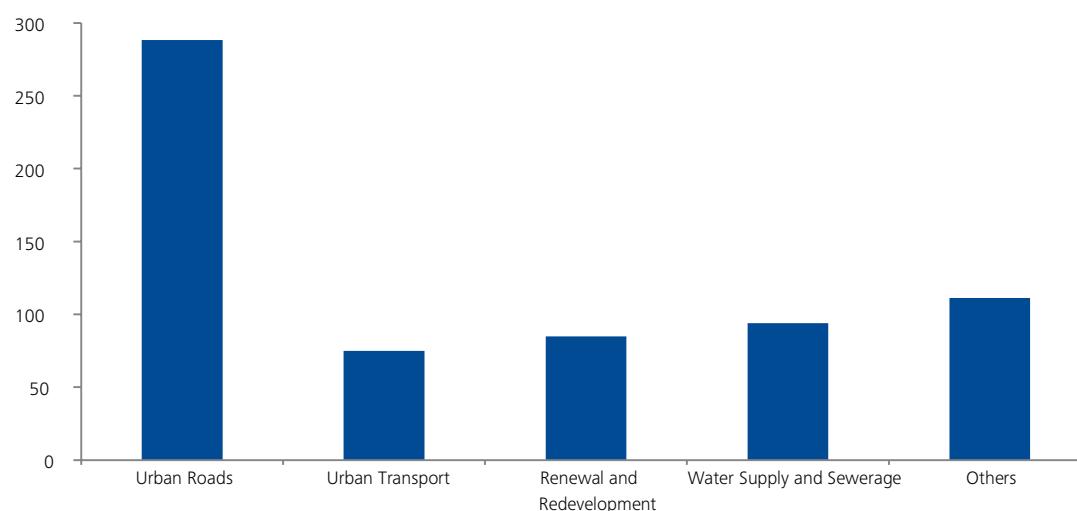
The Twelfth Five Year Plan document expects 48% of the Plan investment to come from private sources, conditional on several national policy initiatives to restore investor confidence.

To boost urban infrastructure across the country, the government has initiated numerous measures and has allocated almost US\$ 2 billion under JNNURM. The government has also launched the Urban Infrastructure Development Scheme for Small and Medium Towns with an outlay of US\$ 1 billion to address infrastructure needs of small towns and cities. Additionally, there is a renewed push towards PPPs in the sector.

Delhi - Mumbai Industrial Corridor (DMIC) is an ambitious Infrastructure programme conceptualized with Japanese government and aiming at developing new industrial cities as "Smart Cities" and converging next generation technologies across infrastructure sectors. Projects worth investment of US\$ 200 Bn have already been approved under DMIC. Success of DMIC has prompted many similar corridors including Bangalore Chennai corridor etc.

There are key investment opportunities for foreign firms in this sector, particularly in the sphere of Solid Waste Management, Urban Transport, Water management etc. Further, with tier II cities also opting for metro systems, there is a space for foreign participation through technological and equipment supply.

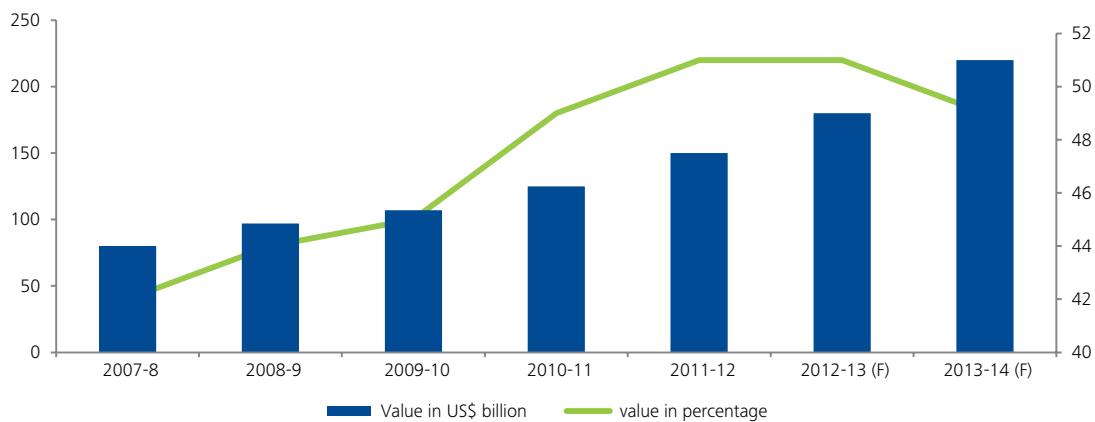
Urban Infrastructure Investment Requirements (in US\$ billion)



Source: Report on Indian Urban Infrastructure and Services, MoUD, 2011

Indian Construction Industry

Construction Industry Value and Infrastructure Share



Source: Construction Industry Development Council working paper on 12th Five Year Plan

The construction industry is the second largest industry of the country after agriculture accounting for 11 percent of India's GDP. Indian construction industry employs 35 million people and its total market size is estimated at US\$ 126 billion. Construction activities in India are largely fragmented with only about 250 firms employing more than 500 people.

Besides infrastructure, the construction industry in India has seen sustained demand from the Industrial Sector and Real Estate Sector. Demand from Real Estate has currently plateaued after unprecedented boom in the last decade. The real estate developers have traditionally employed contractors for construction of projects. However, several large contractors are now transitioning towards becoming real estate developers.

“The biggest challenge is the climate change on account of technological degradation and India on the threshold of massive urbanization needs to tackle this. If we want to attain the same kind of lifestyle as those living in developed nations, we need to have innovation through technological upgradation. The ideology should be: Not only to innovate, not only to build with new technologies and innovation, but also private sector should pass benefits directly to consumers.”

Ajay Maken

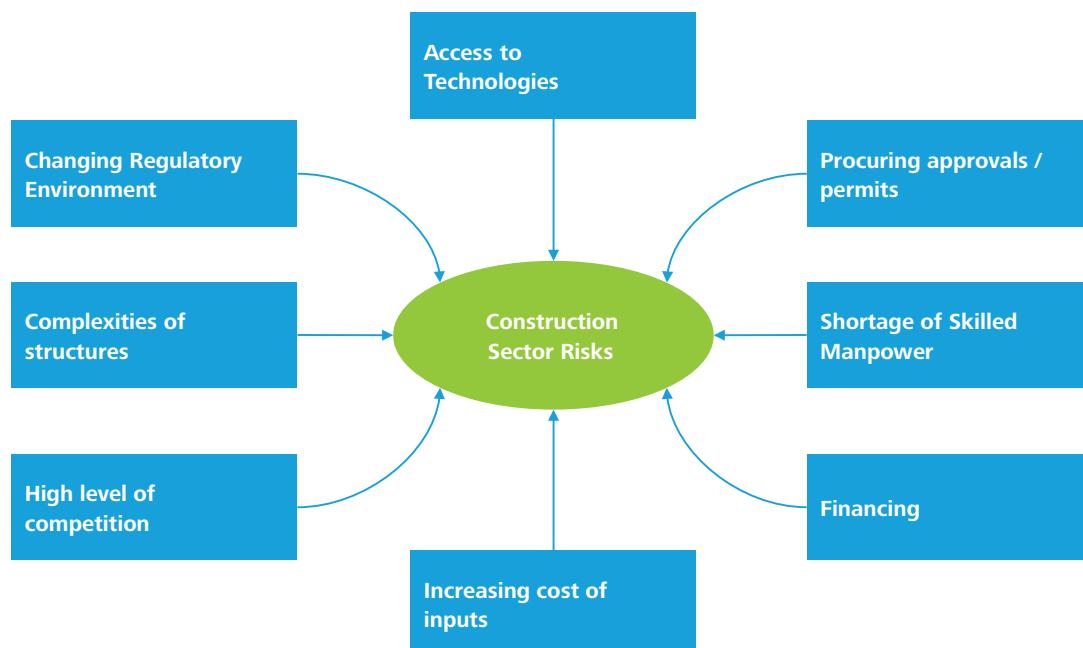
Minister of Housing and Urban Poverty Alleviation

Construction majors are currently experiencing liquidity constraints due to tightening funding norms being employed by institutional financers. The industry is also facing squeezing margins due to increasing commodity prices. Recent trends show that this is primarily due to increase in international prices and are thus unlikely to go down in the near future. Nevertheless, industries based in India producing materials such as cement, steel and glass have shown strong growth of around 10% per annum, indicating sustained demand. Further, availability of skilled labour at key locations is also becoming increasingly challenging for the construction majors. The governments at central and state levels are

actively undertaking skills development programs so as to meet this unfulfilled gap.

The Indian Construction sector offers quite an attractive proposition for foreign developers. The Indian Government has decided to allow 100% Foreign Direct Investment (FDI) in the real estate industry, thereby stimulating construction activities throughout the country. Further, the boom in demand for private sector housing and commercial building provide an opportunity to tap into a lot of the nascent demand in this sector.

Construction Sector Risks



Policy & Regulatory efforts to boost construction activity

Efforts to increase access to funds

The Indian Government has undertaken numerous efforts in order to ease the access to funding for the infrastructure and construction sector in India. FDI up to 100% is permitted through automatic route in many sectors which means that prior approval of government or reserve bank is not required for accessing foreign funds for construction activities. The central government has introduced India Infrastructure Finance Company Ltd. (IIFCL), an institution set up specifically for lending to infrastructure sector & refinancing. Further, various Infrastructure entities & financial institutions allowed to issue infrastructure bonds for long term.

Tax considerations

India is looking to simplify its tax structure in order to attract further foreign investment. It is proposed to bring new direct tax code existing income tax act 1961. Currently foreign construction agencies working in India are subject to various taxes including:

- Income Tax – all companies generating income in India are subject to Income Tax. For companies incorporated in India, currently the base income tax rate is 30% while the same for foreign companies it is 40%. Additionally, corporates are liable to pay surcharge and education cess on applicable income tax.

- Service Tax – A service tax is payable on all services provided except those in a negative list issued by government of India. Current Service Tax rate is 12.36%
- Value Added Tax – India has introduced an indirect tax, value added tax to replace the erstwhile sales tax. This amount of tax varies from state to state and product to product.
- Excise Tax – Tax applied on products sold within India.
- Custom Duty – Tax applied on products sold outside India.

Other regulatory efforts to boost construction activity

- Incentive to private sector for developing logistic parks & free trade warehousing zones
- Active dialogue with industry and financial institutions to address issues
- Viability Gap Funding (max. 40% of project cost) for PPP projects in Infrastructure
- Agreements for avoidance of double taxation with a large number of countries
- Model concession agreement formulated for various sectors with balanced risk-sharing
- Corporate Income Tax holiday for 10 years for Infrastructure Projects
- Recently government has directed Coal India to make available a minimum of 80% of coal requirement to the power sector.

A Bright Horizon



India is poised to be world's 3rd largest construction market by 2025

Global Construction Perspectives

Global Construction 2025 Report

Indian infrastructure and construction industry has grown exponentially, in part due to massive government impetus and in part due to high market sentiments. The country, which has initially targeted the low-hanging fruits, is now poised to take up more complex and technologically intense projects. The focus has moved from cost efficiency to time and competence. This has created excellent opportunities for foreign construction companies to conduct business in India. The Indian regulatory environment is expected to further boost the construction industry in order to provide the basic physical infrastructure for the nation.

There is a huge scope for foreign investment in the infrastructure and construction industry. Already, a number of international construction majors, including those from South East Asia, have entered the Indian market. However, high gestation periods and shrinking finances have tempered the sentiments somewhat.

Foreign construction majors need to ensure that proper due diligence is undertaken before entering into projects. Careful selection of project, in-depth understanding of taxation structure, proper feasibility analysis and tie-up of funding would considerably smoothen the way forward.

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