



**KRS** Infra Ventures Pvt. Ltd.



# KNOWLEDGE PAPER

QUARTERLY EDITION  
OCT-DEC 2020

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*From*  
**Director Desk**

*Dear Friends, as you aware that due to COVID19 normal working effected Globally & KRS Knowledge Paper delayed six month, now working is once again on track and KRS Team started full time business activities.*

*As you aware due to this situation most of Infrastructure Projects delayed and few on hold, however Government of India focused to restart more aggressively to boost economy.*

*With this note, I herewith present Knowledge Paper – October to December 2020 Edition for your review.*

*With Kind Regards*

Keshav Gandhi  
Executive Director, KRS Infra Ventures Private Limited





## Artificial Intelligence in Health Sector

**A**rtificial Intelligence (AI) has emerged as a rapidly evolving technology and has seen widespread acceptance in many fields where healthcare is one of those. The adoption of artificial intelligence (AI) is reshaping the Indian healthcare market significantly. AI-enabled healthcare services like automated analysis of medical tests, predictive healthcare diagnosis, automation of healthcare diagnosis with the help of monitoring equipment, and wearable sensor-based medical devices, are expected to revolutionize medical treatment processes in the country.

Cancer screening and treatment is an area where Robotic treatment will provides tremendous scope for targeted large scale interventions. India sees an incidence of more than 1 million new

cases of cancer every year, and early detection and management can be crucial in an optimum cancer treatment regimen across the country. NITI Aayog is in an advanced stage for launching a program to develop a national repository of annotated and curated pathology images. This provides an unprecedented opportunity to use artificial intelligence to improve decision-support in cancer treatment at low cost.

AI based Radiomics is an emerging field that refers to the comprehensive quantification of tumor phenotypes by applying a large number of quantitative imaging features.

It is predicted that the applications of artificial intelligence in the healthcare space will be worth INR 431.97 billion by 2021. ■





## Indian Ship Building Sector-Opportunities

The shipbuilding industry is of both economic as well as strategic significance for the nation. It is characterized by a high growth potential, employment generation and contribution to GDP. The shipbuilding industry is a cyclic industry and had witnessed a period of unprecedented growth in recent times. The Indian shipbuilding industry embarked upon an ambitious growth plan, with significant investments in infrastructure during this period.

The current size of the Indian shipbuilding industry is 1,210 vessels with a GRT of 10.5 million. The current output per year is 42% of the total Indian tonnage.

The shipbuilding industry is poised to create more tonnage. India having 14th largest fleet in the world by total deadweight tonnage needs more than 200 inland vessels each year as inland waterways.

Currently more than 100 ships are under construction in Indian Shipyards that includes passengers vessels, cargo vessels, fishing vessels as well as mini bulk carriers. In recent times, few private shipyards increase their building capacity from 1,00,000 DWT upto 4,00,000 DWT to cater construction of large LNG carriers, dredgers and cargo vessels. Shipbuilding opportunities to construct more than 240 different kinds of ships required in next 3-5 years. New policies are in place for the Shipbuilding Industry to double its size to Rs 20,000 crore by 2022. ■







## Sagarmala Project

The Sagarmala Program initiated by Government to promote port-led development in the country through harnessing India's 7,500 km long coastline, 14,500 km of potentially navigable waterways and strategic location on key international maritime trade routes. Under Sagarmala, 93 projects worth Rs. 5533 Crore have been sanctioned by the Ministry of Shipping. This includes unique and innovative projects such as Gogha-Dahej RO-Pax Ferry Services Project worth Rs. 117 Crore sanctioned and RO-RO Services Project at Mandwa Rs. 66.56 Crore sanctioned.

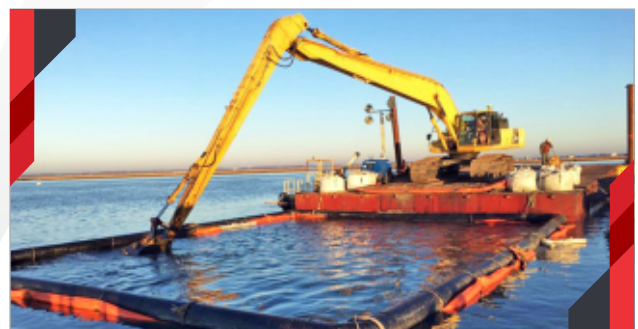
To connect ports with various Industrial towns Indian Port Rail Corporation Limited (IPRCL) is authorized to work on 54 rail connectivity projects costing Rs. 52,840 Crore with association of Ministry of Railway directly or under joint ventures in addition to Port – Road connectivity program.



## Indian Dredging Market

Dredging has emerged as a distinct industry due to growing dredging requirements at Indian ports as well as inland waterways. Most major ports have achieved a draught of at least 14 metres. However, draughts at domestic ports still remain substantially lower than at their international counterparts. The next output will cross 19-20 meter draft to cater new panama vessels. Government already initiated steps to increased budget for capital dredging as well as maintenance dredging which is estimated 80 millions cubic meters.

With Government steps, significant growth is expected in the dredging segment. Most of this growth is expected to be driven by development plan of new ports and waterways by Government & modernize plan to existing ports. Government planned to develop 106 new inland waterways and maintaining the navigational channel of the five existing National Waterways. These initiatives will increase the dredging requirement significantly in the coming years. ■





## Indian Railway Sector Open for Private Participation

Government of India introduction privatization of railway service, this will improve railway infrastructure & efficiency of the railways and will create a new environment in where performance matters and also will be profit oriented along with growing electrification. Private players in passenger train operations will give a massive jump in technology and coaches that will run at higher speed. GOI plan 109 pairs of routes through 151 modern trains. The private participation in passengers train operations will be only 5% of existing trains with the same fare and better facilities as technology and safety will improve.

The private trains will operate in 12 clusters including Bengaluru, Chandigarh, Jaipur, Delhi, Mumbai, Prayagraj, Secunderabad, Howrah, Chennai in different States. The concession period for private trains will be 35 years and operations are expected to begin by 2023. Government of India introduced PPP Modal for the redevelopment of nearly 50 railway stations across India with private sector investment in the Railways Infrastructure approx Rs 30,000 crore.



## Focus on Oil & Natural Gas Sector

Oil and Natural Gas form an important part in India's Energy sector. India has high dependence on imports to meet its oil & gas needs. To cover this, Government has paid significant attention to reviving the exploration and production segment. Various exploration blocks are open to focus on ramping up domestic output to take the share of gas in the energy sector from 5-6 % to 15 % by 2030. To achieve this, renewed attention is being given to the development of countryside pipelines and city gas distribution (SGD) networks. Total of 136 geographical areas have been successfully implemented to CGD entity. The Petroleum and Natural Gas Regulatory Board has proposed 44 new GAS for the upcoming round of bidding. Approximately investments of Rs. 200 Billion to Rs. 300 Billion per annum is expected in exploration business. ■







## India Planned 100 New Airports

Government of India announced to add regional 100 airports will be developed in the country by 2024.

In view to global average, air traffic in India has grown substantially. It is expected that the country's airfleet number will increase from 600 to 1,200 with growth is domestic traffic. These airports are aimed at easing the strain on India's current travel hubs.



To cater Indian domestic Market, which is world largest for civil aviation most of these projects will be in greenfield and offered under Public Private Participation (PPP). The current budget by Government of India allocated Rs. 1.7 Trillion (\$ 23.7 Billion) to support transport Infrastructure.



## Global Funding for Indian Infrastructure

Government of India, union budget 2020-21 has given a massive push to the infrastructure sector by allocating Rs 1,69,637 crore (US\$ 24.27 billion) to develop the transport infrastructure.

India requires investment worth Rs 50 trillion (US\$ 777.73 billion) in infrastructure by 2022 to have sustainable development in the country. India is witnessing significant interest from international investors in the infrastructure space. The infrastructure has become the focused sector for the Government of India. India plans to spend US\$ 1.4 trillion on infrastructure during 2020-23 to have a sustainable development of the country.

India and Japan have joined hands for infrastructure development in India's Transport sector and are also setting up an India-Japan Coordination Forum for Development of High Speed Train network & Freight Corridor Projects to undertake strategic infrastructure projects. ■





## KRS TEAM

KRS Infra Ventures Pvt. Limited works with very reliable team in field of Research & Marketing for Infrastructure Project Opportunities. The years of research & pre-tender working to develop the project and active role during tender handling as well as implementation where local vendor management along with local sourcing to complete the project.

KRS Team always work as Bridge to support our Global Partners.

KRS Infra Ventures Pvt. Limited offer our Marketing Partnership for long term to Global Partners and work as local office to manage all required services.



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