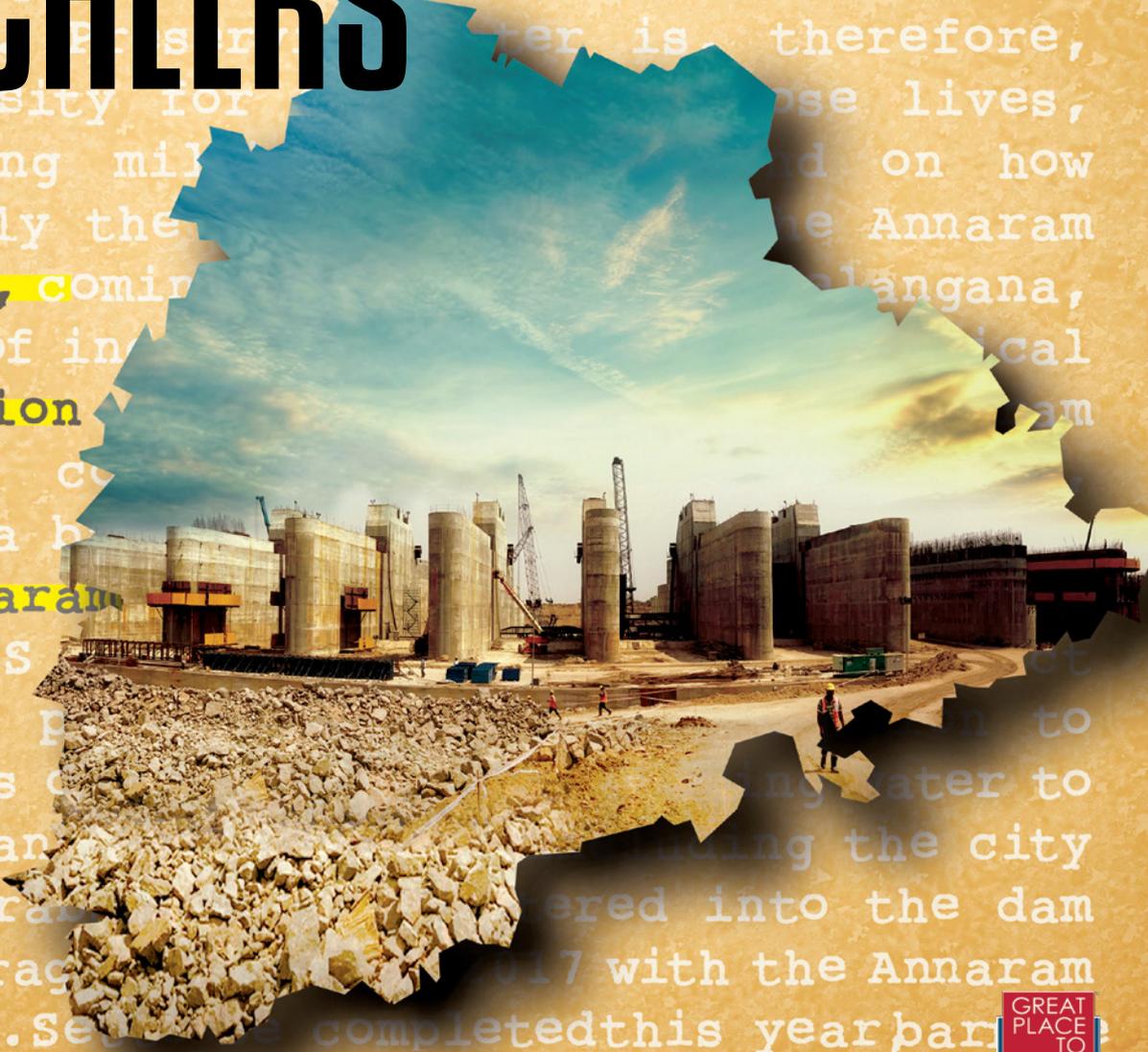


# INSIGHT

## A BARRAGE OF CHEERS

Afcons-built Annaram barrage promises to reduce water woes and spur agricultural and industrial development in Telangana

**barrage, coming** is one of the **irrigation** barrage of Sundilla **Kaleshwar**. The KLIS that is providing millions of more than of Hyderabad and barrage project. **will spur agricultural and industrial development in the state of Telangana.**





## Being different is the 'new normal' for Afcons

Treading new roads has always been our forte, and this quarter has been no different. It took us to a new country in our second home, Africa. We've stepped into Zambia with the vision to make palpable difference to the people of the nation.

As we overhaul the road transport infrastructure in the Zambian capital, Lusaka, we realise that the hopes and dreams of our friends there are much like our own countrymen. Their spirit to prosper and progress resonates with us, and we are humbled to make contributions towards progress of nations, much like we are doing at home in Telangana.

Afcons is one of the key players that is building the ambitious Kaleshwaram Lift Irrigation Scheme. We entered the dam/barrage segment with the Annaram barrage, which is part of this mammoth water preservation project. Keeping in view the developmental aspect of the project, we aim to complete this project on schedule.

What fills me with pride is the way we are marching ahead with this project. Despite entering a new segment, Afcons has achieved several national benchmarks in concrete pumping in the irrigation and hydro power sector. Kudos to the entire team for bringing in the laurels!

On this note, let's all work together and take Afcons to new heights with our willpower and curiosity. In the inimitable Walt Disney's words - We keep moving forward, opening new doors, and doing new things, because we're curious and curiosity keeps leading us down new paths.

**K Subramanian**

### ISO 14001:2015 CERTIFICATION FOR AFCONS

Afcons has transitioned to ISO 14001:2015 Environmental Management System Standard by successfully completing the recertification audit. The certificate was presented to Managing Director Mr S Paramasivan by Bureau Veritas Certification represented by Mr Ramesh Koregave (Director), Mr Anantha Prabhu (Head-Training) and Mr Dinesh K Shetty (Manager-Certification) at Afcons House on June 18, 2018. Mr Giridhar Rajagopalan (Executive Director-Technical) and Mr Ramakrishnarao GMS (GM-HSE) also represented Afcons.



### TWO CHEERS FOR KOLKATA METRO

On the occasion of World Safety Week, Transtonnelstroy-Afcons joint venture was awarded two safety certificates recognising the HSE efforts in 'Compliance of Issues' and 'Promoting and Maintaining Good Housekeeping' at the Kolkata Metro Project sites by Kolkata Metro Rail Corporation Limited (KMRCL).



### SAFETY CERTIFICATE FOR LIBERIA PROJECT

Arcelor Mittal Liberia Ltd. has recognised Afcons with an appreciation letter for following all Health, Environmental and Safety (HSE) principles in complex working conditions at the Gangra Sediment Control Dam Project.

### AL AWIR PROJECT SAFETY MILESTONE

Louis Berger has awarded Al Awir Road Project, RTA, Dubai, a safety certificate for reaching the milestone of five mn Safe Man Hours. Mr Man Singh, Senior HSE representative, Al Awir Road RTA Project, Dubai was praised for his remarkable performance in Health, Safety and Environment Management. The appreciation letter, issued by Senior Resident Engineer of Loius Berger, has also recognised his contribution.

### MORE GLORY FOR GABON

Chief Inspector of Labour and Employment, Libreville, Gabon, has awarded a letter of appreciation to Afcons for implementing and complying with best safety work practices at three project sites - General Cargo Terminal, Mineral Port Project and Shore Protection Project.

In recognition for maintaining impeccable HSE standards, HSE Cullen Grummit & Roe (UK) has congratulated Afcons for achieving half-million safe man hours for the Phase 2 New Owendo International Port in Gabon. Also, the Government of Gabon has named Afcons the Best Employer in the Construction Sector for deploying maximum number of locals in the project.

### OFFICE ADDRESS

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### EDITORIAL

Bhakti Prasad, Krishnakumari C,  
Bivabasu Kumar, Chandrika Sen

**Afcons-built Annaram barrage promises to reduce water woes and spur agricultural and industrial development in Telangana**

# A BARRAGE OF CHEERS

**D**ams across the world demonstrate the brilliance and pride of human ingenuity. Conserving a limited resource like water to generate electricity and irrigate our food crops, this crucial piece of human engineering plays a vital role in survival. India, predominantly an agrarian economy, is often exposed to the vicissitudes of erratic monsoon. Preserving water is, therefore, a necessity for our farmers whose lives, including those of millions more, depend on how liberally the heavens open up.

The Annaram barrage, coming up in the state of Telangana, is one of independent India's most critical irrigation infrastructures. The Annaram barrage combined with Medigadda, and, Sundilla barrages constitute the ambitious Kaleshwaram Lift Irrigation Scheme (KLIS). The KLIS is a massive irrigation project that is planned to provide irrigation to millions of farmers, and, drinking water to more than 13 districts, including the city of Hyderabad.

Afcons entered into the dam

and barrage segment in 2017 with the Annaram project. Set to be completed this year, the barrage will spur agricultural and industrial development in the state of Telangana.

## THE MAZE RUNNER

The KLIS aims at irrigating 18.25 lakh acres in 13 districts and stabilising another 18.75 lakh acres in seven more districts of Telangana. The plan is to harness water at the confluence of three rivers at Godavari by constructing a barrage at Medigadda. The water will be back-pumped into Godavari and diverted through a maze of reservoirs, tunnels, pipelines and canals. Almost two Thousand Million Cubic feet (TMC) of water per day will be moved upriver through gravity canals from Medigadda barrage to Annaram barrage from where it will be pumped further back to Sundilla barrage. From there, the water will be diverted to Yellampalli reservoir and then distributed to nearby districts. Annaram barrage being the middle of the two barrages plays a vital role in storing



The Annaram barrage is 1270m long with 66 radial gates of 15m along with energy dissipation arrangement and abutments. It has 72 piers, each 100m long, 4m wide and 24m high

## The Big Idea

water, and, therefore, is a vital cog in the intricate irrigation network.

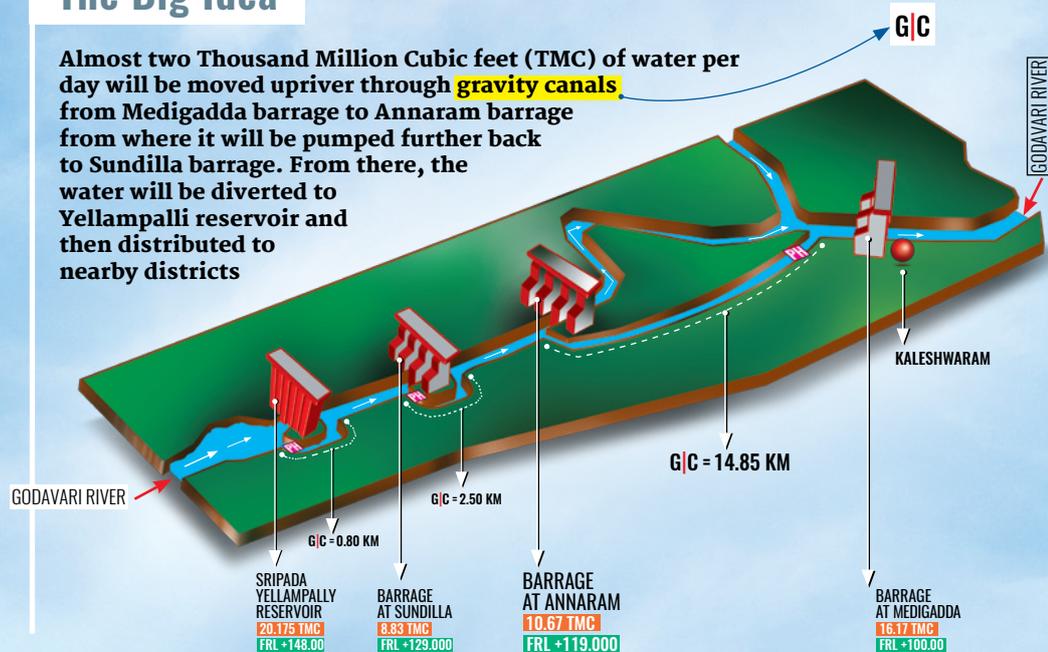
### FIRST-TIME RECORD

Afcons is constructing the Annaram barrage with an aim to complete it within 24 months. Conventionally, such projects take over three years to complete. The ambitious deadline is set to fulfil the wish of the Telangana government to relieve the people from persistent water woes.

“Afcons has the zeal and the dedication to complete this project in record time. Normally, a project of this magnitude takes about five years. But Afcons has come forward to do it in 18 months. The actual period of completion is 24 months, but Afcons has tried to complete it even before that. Till date, about 97% of the work has been completed by them,” said N Venkateswarlu, Chief Engineer, Kaleshwaram Project, Government of Telangana.

The barrage is 1270m long with 66 radial gates of 15m along with energy dissipation arrangement and abutments. There are 72

Almost two Thousand Million Cubic feet (TMC) of water per day will be moved upriver through **gravity canals** from Medigadda barrage to Annaram barrage from where it will be pumped further back to Sundilla barrage. From there, the water will be diverted to Yellampalli reservoir and then distributed to nearby districts



piers, each 100m long, 4m wide, and, 24m high. There will be a road bridge with clear carriageway of 7.5m connecting two ends of the riverbank on top of it. The total capacity of the barrage will be 10.87 TMC which will impact around 20 million people. The barrage is being constructed using 11 lakh cum of reinforce cement concrete, and, over 80 lakh cum of earthwork.

Afcons achieved a rare distinction of over 1 lakh cum concrete pumping in a single month for four months

continuously. It set another benchmark when 4,300 cum of concrete was pumped in a single day. Afcons became one of the few Indian construction companies to produce such huge concrete quantity in irrigation and hydro power sector. The Government of Telangana acknowledged with a certificate of appreciation.

“The Kaleshwaram Project has many components. You can convert the entire project into 18 major projects. Annaram is one of the important barrages wherein

**“Afcons has the zeal and the dedication to complete this project in a record time. Normally, a project of this magnitude takes about five years. But Afcons has come forward to do it in 18 months.”**

concreting is a very challenging job. It required 11,00,000 cubic meters to be completed within 11 months. Afcons did it in a great spirit and they achieved about 4,300 cubic meters concreting per day. Afcons has done a wonderful job and they are on course to completing the project

before the other two barrages,” the chief engineer said.

The Annaram project stands out from other barrage projects in the world because of the use of secant piling for barrage construction. Secant piling had to be chosen due to abnormal soil strata. In the process, the team completed 450 piles in a single month. All this could be achieved with a clean safety record of 5 million Safe Man Hours. Once complete, the Annaram Barrage will play a pivotal role in the Kaleshwaram Lift Irrigation Scheme.

# S. EzhiLarasan

## ‘Happy to make positive contributions in Africa’

“I’m a dreamer,” says Mr S Ezhi Larasan, quickly adding, “But no matter how much I dream, I’m always engaged in activities at hand.”

This sums up the spirit of the Afcons team led by Ezhi Larasan that went on to build Africa’s fastest port project, the New Owendo International Port in Gabon. The Afconian from Tamil Nadu was able to strike a fine balance between diligence and belief to make a mark in Africa’s infrastructure construction history.

Afcons won several accolades for this project, the highest coming from none other than the President of Gabon, Mr Ali Bongo Ondimba, himself. “During inauguration, Mr Bongo praised us by saying it takes anywhere up to six years to complete a project of this nature in Gabon. The whole team was overwhelmed when he said what we achieved was unimaginable!” he reminisces.

Another highlight of Afcons’ stint in Gabon has been the unprecedented number of locals that have been employed in the project, with the government recognising the company as the Best Employer in Gabon for

two years in succession. Ezhi Larasan says this recognition is the cherry on the cake. “We were able to generate direct employment for 1,000 Gabonese and indirect employment of 1,000 more in a short span of 18 months. We received the Best Employer award in 2016 and in 2017 as well,” he says.

For the Afconian of 18 years, who considers Africa his second home, contributing to overall development of the countries where he works in fills him with great pride. “Now that the new container terminal of the port is operational, we see that port charges and shipping costs have drastically reduced due to fast turnaround time of containers with modern facilities. I feel proud to be working here while positive changes are taking place all around,” says Ezhi Larasan.

Afcons’ flawless execution of the project contributed to the company bagging its second phase as well. Ezhi Larasan says his team is well prepared to handle projects of any scale in the



coming years. “We bagged it on the merit of our performance and the trust we gained from our client. We are expecting few more port projects from the same clients in Gabon and adjacent countries,” he says.

Incidentally, Afcons’ maiden job in Gabon is also

the first EPC project in Ezhi Larasan’s career as Project Manager. “This makes the project dearer to me,” he says.

Mr S. Ezhi Larasan is the Project Manager of New Owendo International Port, Gabon.

## Auto-Piloting Afcons for Next Level

### STRATEGY CONCLAVE

The Afcons Strategy Conclave 2018 was held, in Mumbai, on May 30 and 31. The Strategy Conclave serves as a platform for Afcons to share its strategic goals with Chairman, Board of Directors, CEOs of SP Group Companies, senior executives of SP Group and Afcons leadership team.

The two-day annual event involved deliberations about strategies and plans charted out for respective business units and departments for preparing Afcons for next phase of growth. Last year witnessed several notable achievements like:

- Daylighting of World’s longest motorable tunnel at 13,000 feet – Rohtang Tunnel
- Fastest completion of port project in Africa – New Owendo International Terminal, Gabon
- Successful completion of India’s longest Jetty – BMCT, Mumbai
- Record 1+ lakh cum concreting per month for 4 consecutive months – Annaram Barrage
- Entered new market – Mozambique
- Entered new segments – Earthen dam and Underground powerhouse

In this background, Afcons unveiled new strategic goals for next four years. Afcons is aiming to become a \$2 billion enterprise by FY 2021 – 22. For the first time, profitability metric

was introduced as a part of strategic targets – achieving a sustained pre-tax profit margin of 6%.

Afcons also identified several qualitative goals which would continue to drive its strategies. At the core of strategy is to become a ‘Knowledge Enterprise’. Achieving the new strategic targets would entail organisation building, managing large overseas operations, procuring orders worth, at least, Rs 15,000Cr each year etc.

The Afcons leadership also identified weaknesses in the set up which could act as growth impediments. They have set a process to address them immediately. Focus on continued delivery excellence across geographies and strong technical prowess provides Afcons with confidence of achieving its strategic goals year on year.



SP Group Chairman Mr Shapoor Mistry with Afcons top management led by EVG Mr K Subramanian and MD S Paramasivan at the 2018 Strategy Conclave in Mumbai

## AWARDS



### NATIONAL L&D AWARD FOR AFCONS

Afcons has won the prestigious Times Ascent National Award for Training & Development 2018 at a ceremony held at Taj Land's End, Mumbai, on July 5, 2018. Ms C Krishnakumari, Joint General Manager, Technical Training, received the award from Arindam Chaudhuri, author and director of IIPM Think Tank. Afcons clinched the award for presenting its Best Practices in Learning Transfer for Improving Business Bottomline. The award has been instituted by the Human Resource Development Management Committee of the World HRD Congress.

### CERTIFICATE OF APPRECIATION FROM BML MUNJAL

Afcons' exemplary Learning & Development initiatives have been recognised and appreciated at the BML Munjal Awards 2018. This award is highly recognised in the field of L&D and participants have to make it through several rounds to get to the jury stage, which Afcons achieved in its maiden attempt. Our L&D programmes and their role in driving business excellence received a special mention from the evaluation panel.



## NEWS



### EVG & MD AT THE NAGPUR METRO MILESTONE CELEBRATIONS

Executive Vice Chairman Mr K Subramanian and Managing Director Mr S Paramasivan visited Nagpur Metro project sites on June 8, 2018. Post site visits, they participated in an event organised by the project team to celebrate the completion of 6km superstructure, and, completion of 750 piles in 6 months (Reach 2). The event was also graced by the presence of Mr Brijesh Dixit, Managing Director, Nagpur Metro Rail Corporation Limited. The event turned out to be extra special when Afcons was awarded a safety certificate by Mr Dixit for achieving 5 million Safe Man Hours.

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### PAKAL DUL DEAL SEALED

The contract agreement for the Power House Package of Pakal Dul Hydro Electric Project was signed on June 5, 2018. The CVPP team, led by Mr SP Puri, Chief Engineer (Contracts), commended Afcons-JAL JV for its mobilisation efforts in a short period. Mr SG Paretkar, Director, BU Head (Hydro & Underground) led the team of Afconians at the event.

### JAPANESE MIN LAUDS SAFETY PRACTICES AT AHMEDABAD METRO PROJECT

Mr Masatoshi Akimoto, the parliamentary Vice-Minister of the Ministry of Land Infrastructure, Transport and Tourism, Government of Japan, visited Ahmedabad Metro Project site (2291) at Kalupur Metro Station. He appreciated the safety practices at the site.

### JOYRIDE FOR CHENNAI COMMUTERS

Two underground Metro rail stretches in Chennai were inaugurated on May 25, 2018. Commuters got the pleasure of enjoying joyrides between Central to Airport, and, AG-DMS to Little Mount, free of cost. This move was part of a two-day trial, and CMRL extended the perk of

free rides as a treat to the eager commuters. A ceremony was held at Egmore Metro station, where the Honourable Chief Minister of Tamil Nadu Mr K. Palaniswami inaugurated the underground sections. Meanwhile, this summer, the Chennai Metro team started an initiative to provide free drinking water at Chennai Central Bus Stop between 9am and 5pm.

### AFCONIANS PROVIDE A HELPING HAND

Afconians at Vizhinjam project (2949) provided educational aid to needy students of various

schools around the site on June 6, 2018. The staff made voluntary contributions that was used to buy and distribute notebooks, bags, umbrellas, and, other stationary products to the students. Mr Narendra Saokar, Project Manager, and, Mr Vinay Singhal, Project Director (HOWE – Adani) distributed the items at the site.



### NSC DIRECTOR GENERAL VISITS CHENAB PROJECT

Dr V B Sant, Director General, National Safety Council (NSC), visited Chenab Bridge Project site in June. He was part of sessions on Safety Leadership Programme (SLP) and Behaviour Based Safety (BBS) conducted by Mr Sivaramkrishna Rao, General Manager, HSE, Afcons. Mr Sant appreciated the safety initiatives at the site and was impressed by the international standards being followed and maintained at such an extreme location.



## NEW PROJECTS

### TWO MARINE JOBS AT GUJARAT

Afcons has been awarded an EPC job for Package 1 (Jetty 1 & 2 and Tug Berth) of LNG Port Terminal Facilities at Jafrabad in Gujarat. The task has been assigned by Ahmedabad-based SWAN LNG Pvt Ltd. Gujarat Chemical Port Terminal Company has awarded Afcons a ball bearing replacement job for Jetty MLA#4 using Samrat jack-up barge.

### AFCONS BAGS RAILWAY JOB IN BANGLADESH

Bangladesh Railway has awarded Afcons-KPTL JV a job to construct 3rd & 4th Dual Gauge Railway Line between Dhaka and Tongi and doubling of DG track between Tongi and Joydebpur, Bangladesh.



**VIEW POINT** Sunil Shinde

## HIGH SPEED RAIL WILL ACT AS A TALISMAN FOR INDIA

a big market for Japanese technology. The HSR system, in India, will therefore amplify the Indo-Japan relationship.

### Will it be easy?

No way! The lack of experience and technology in high-speed railway system will be a huge challenge for India. To overcome it, an agreement has been made between Japan and India for 'Transfer of Technology' and promotion of 'Make in India' through which India hopes to set up manufacturing facilities in the country, generate jobs, and, get a toehold in Japanese technology.

### Safety first

The ultra-efficient Shinkansen technology is known for its punctuality, zero-accident fatalities and, the same safety system has been adopted in MAHSR line. Japan's Shinkansen have carried more than 10bn passengers till now with zero collision or derailment in past 51 years. It is already running on tracks in UK, China, and, Taiwan and is at the planning stage in many south east Asian countries.

The HSR system will be a modern overhaul of an aging Indian railway route that carries the equivalent of Australia's population daily. The Shinkansen will also put an end to the Railways' dubious safety record with zero train-related accidents.

### Promising Future

It is safe to say, therefore, that the High Speed Rail augurs a good future for India. A project of this scale will have teething problems, but, it is where famed Indian infrastructure companies like Afcons can share responsibility of nation building and set new benchmarks. It is my strong belief that the HSR will act as a talisman for modern India.

Sunil Shinde is Director, Special Initiatives, at Afcons

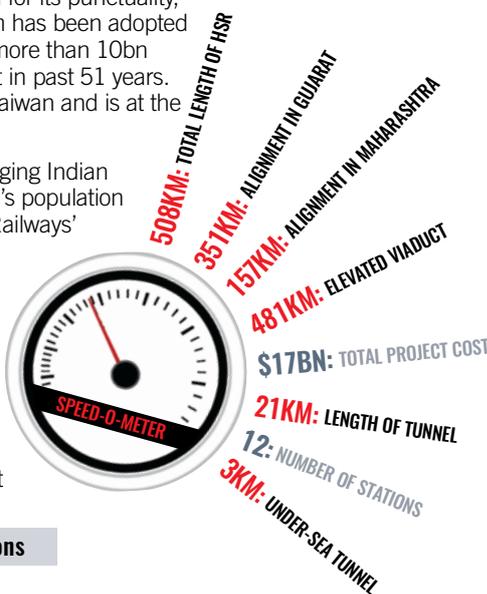
It is the most extravagant railway project in Indian history, and, while opinions are divided, the Mumbai Ahmedabad High Speed Rail (MAHSR), for an optimist like me, is the future of India.

Budgeted at \$17bn (INR 1.08 trillion), this mega high-speed rail corridor (HSR) indicates the Indian dream for the need for speed in trade, industrial & economic development. As the claims for its necessity becomes stronger and stronger, India remains poised for a major upswing that the HSR promises to bring with it.

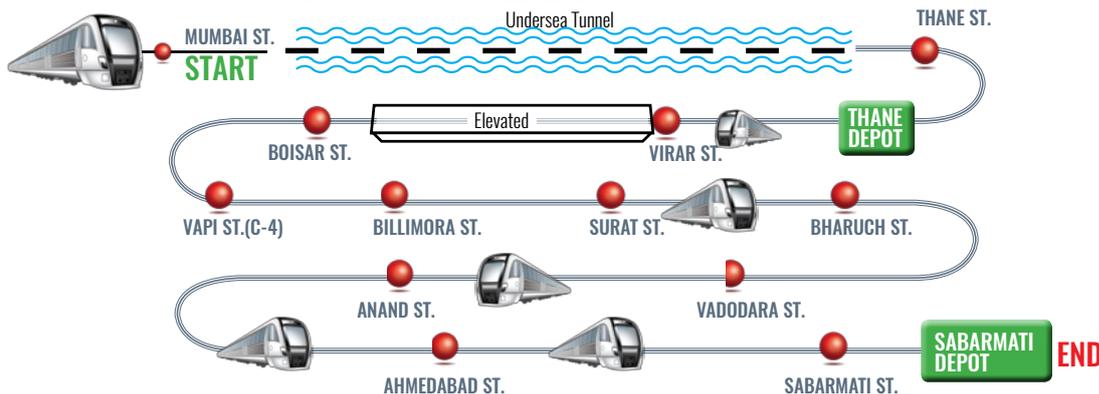
### Why India needs HSR?

A network of HSR would give rise to megacities, develop townships, and, create new job opportunities along the corridor. An HSR system would reduce journey time, provide connectivity benefits to population and markets, and, lower environmental impacts. This would further provide healthy competition, and, eventually lower cost of travel by rail and air.

Combined with capital to invest, Japan has cutting-edge technology and is known for exceptional standards of punctuality and safety. India, a growing economy in need of technological expertise and with high level of commitment for infrastructure development, will provide



### HSR ROUTE: MUMBAI TO AHMEDABAD



## HR CORNER

### Oil & Gas Training Programme

#### Loads on Offshore Structures:

A training session on Loads on Offshore Structures was conducted at Oil & Gas BU on May 25, 2018.

### Medical Emergency & Response

A talk on Medical Emergency & Response (CPR & Heart Attack) was conducted by Dr. Prafulla Thorat in April 2018 at Oil & Gas BU and Afcons HO.

## NEW JOINEES

### Mr Birendra Kumar Jha, JGM (Project)

Mr Jha has an experience of over 27 years and has worked with companies like Oriental Structural Engineers Ltd. His last assignment was with BSC C&C JV at the level of Chief Project Manager.

### Mr Santosh Kumar Mishra, DGM (Projects)

Mr Mishra has an experience of over 23 years and has worked with companies like Orissa Professional Development Service Consultants and Geg. Est., Abu Dhabi, UAE. His last assignment was with Tata Projects Ltd. at the level of DGM.

### Mr Baburao Chandrakant Satardekar, DGM (Projects), Const. of Island Offshore Brekwater, Chhara Port

Mr Satardekar has an experience of over 27 years and has worked with companies like Essar Construction Ltd. His last assignment was with Rina Consulting S.P.A. India at the level of Resident Construction Manager.

### Mr Sai Ram Gadwala, DGM (Projects)

Mr Gadwala has an experience of over 23 years and has worked with companies like AMR Projects Ltd and HoHup Construction Company. His last assignment was with NKC Projects Pvt. Ltd. at the level of Asst. VP.

### Mr Nachiket Ashok Tendulkar, DGM (Planning), Head Office - Special Initiatives Dept.

Mr Tendulkar has an experience of over 20 years and has worked with companies like ION Exchange India Ltd and Gammon India Ltd. His last assignment was with Hindustan Construction Ltd. at the level of DGM.

# ROAD TO A BETTER TOMORROW



Afcons set foot in a new African country this quarter with a critical road decongestion project in Zambia. The Ministry of Local Government and Housing (MLGH) of the country has entrusted The Shapoorji Pallonji Company with Afcons to execute Lusaka City Decongestion Project. The ground-breaking ceremony of the project was held in April in the presence of the President of Zambia, His Excellency Mr Edgar Chagwa Lungu, and the President of India, His Excellency Mr Ram Nath Kovind. Mr S Paramasivan, Managing Director, and Mr Akhil Gupta, Executive Director - Operations & BU Surface Transport, were at the helm of Afcons team on the occasion. True to its vision, Afcons is committed to engineering infrastructure that will pave way to a prosperous future for Zambia.



## ALERTS

Afcons now has a dedicated Youtube channel. Scan the code to visit the channel and stay tuned with the latest videos

