

AFCONS

AFCONS INFRASTRUCTURE LIMITED
A Shapoorji Pallonji Group Company

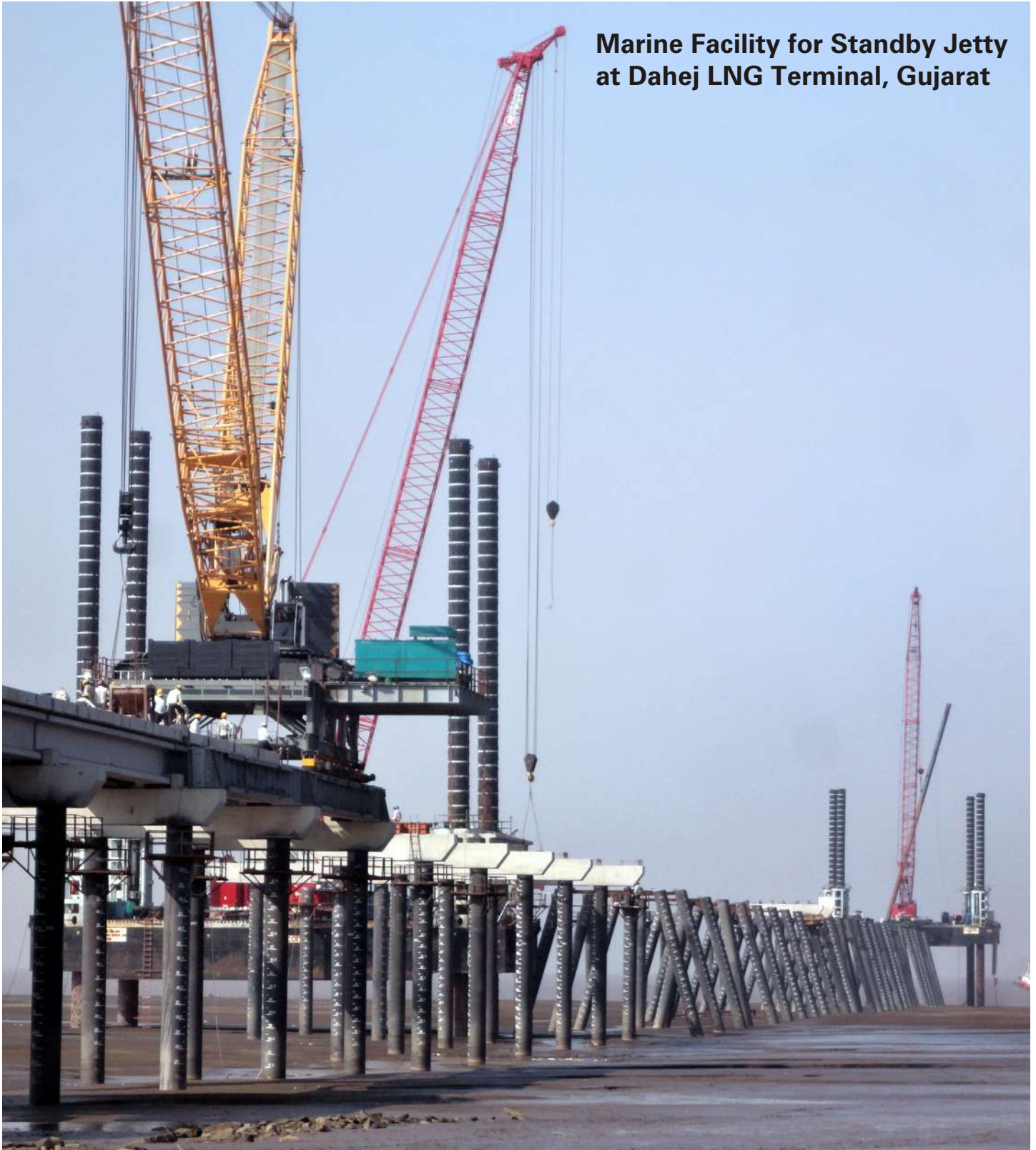


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**Marine Facility for Standby Jetty
at Dahej LNG Terminal, Gujarat**

From MD's Desk



Welcoming the New Year, I wish all of you to be blessed with good health and happiness. As we begin another journey of expectations, challenges, victories, lessons and changes, it's good to look ahead and think about what this year may bring to us. Let us quickly recap the notable developments that took place in the year 2012.

Year 2012 saw completion of few landmark projects like - Bulk Jetty at Port of Sohar, Oman, a joint venture between Saipem, Italy and AFCONS; DSO Iron ore project for ArcelorMittal, Liberia and Offshore Process Platform (ICP-R) for ONGC. Along with the completion of ICP-R project we won another prestigious HRD Process Platform project from ONGC. I am glad that for the 6th time in a row, AFCONS got the India's one of the 'Most Admired Companies' award from Construction World. Launch of two new web based portals namely, AFCONIANS and AFCONS GNOSIS took place in the year

2012. 'AF-Samrat' (Self-elevated jack-up platform) was a new feather in our cap during the same year.

In the coming years, we would see a stiff competition. To make the situation further challenging the negative trends are seen in the global economy. Besides these substantial slowdown is seen in the domestic markets as well. Because of above we can no longer be sitting on our past laurels and remain complacent. On the contrary, the need of the hour is to be agile and proactive in our approach whether in procuring the business, or selecting the proper partner in execution or for that matter getting the right person for the right job.

To effectively deal with the above challenges and also to create a differentiator in the industry, we designed and implemented the '6D' model.

On top of the above we have evolved a cultural framework in capturing the theme of 'Learning Organization, Collaboration and Innovation' as no initiative is sustainable in the long term without a sound cultural framework.

Finally, to break our own barriers and to embrace all the above we spoke of a theme 'Walk an extra mile'.

I have no doubt in my mind that AFCONIANS as a family will more than raise to the occasion.

K Subrahmanian

Tracking Safety

Tecnimont ICB Pvt. Ltd. has issued an appreciation certificate to AFCONS OPaL Project, Dahej for successfully achieving "**5 Million safe Man Hours without any Lost Time Accident (LTA)**" as on 30th October 2012.

Royal Haskoning has issued an appreciation letter to AFCONS Aqaba, Jordan project for successfully achieving "**Four million Man hours without any Lost Time Accident (LTA)**".

Special Feature

Marine Facility for Standby Jetty at Dahej LNG Terminal, Gujarat

Overview

Over the years, AFCONS has made a significant contribution in building LNG Infrastructure in India. Recently, Petronet LNG Limited has awarded AFCONS one prestigious EPC project i.e. 'Marine Facility for Standby Jetty' at Dahej LNG Terminal, Gujarat. Engineers India Limited has been selected for providing management consultancy for this project.

In past, AFCONS was involved constructing one LNG infrastructure project at Dahej basin in gulf of khambat , which provides an all weather direct berthing facility, with a natural deep water draft availability ranging up to 25m depending upon the length of the trestle.

This new project of Standby LNG terminal is a part of capacity expansion plan of the previous project, targeting a turnaround time of 24 hours; which will act as major booster to India's LNG import facility. LNG has an edge over natural gas because of its ease of transportation without pipelines. The same advantage is being exercised and steps are being taken to commercialize it.



Project Details

The Standby Jetty at Dahej LNG Terminal is designed to moor and offload LNG carriers from capacity of 125,000 m³ to 266,000 m³ (Qmax) in size, in both portside and starboard side directions. From structural point of view, the jetty is divided in following main components:

- Unloading Platform - Suitable to accommodate 4 unloading arms
- Breasting Dolphins - 4 No.
- Mooring Dolphins - 8 No.
- Catwalks – 6 No.
- Approach Trestle - 2.5 Km.
- Tug Storm Mooring - 2 No.

Major highlights

The project is being executed in extreme condition of gulf of khambat.

AF SEP-Samrat (Self Elevating Jack-up Platform with elevated weight of approximately 2,298 tons), which is the latest addition to AFCONS equipments fleet, is being used for Jetty head piling in this project. Civil works are supported by another 2 jack-up platforms namely, Maharaja & Maharani. In



addition, there is a back-up area of 125000sqm, which is catering to the need of pile splicing, precast works and stacking area.

The project involves procurement of steel pipe to the tune of 21583m, Cathodic Protection of 539 piles and related structure, installation and commissioning of shore based winches, quick release mooring hooks, ship navigational aids, access gangway tower and berthing fenders.

Major Value-engineering Innovations in this project

- **Temporary bund at approach trestle** - A temporary Jetty with available sheet piles to the length of around 500m was constructed {for loading out and unloading of steel piles(40 to 80m Length), precast units & berthing of floating vessels}.
- **Splicing yard foundation work** - Pre-cast blocks are utilized as foundations for pre-cast beds, for fabrication of steel piles at splicing yard available.
- **Pile load test arrangement** - Pile load test arrangement by utilizing structural plates are used to avoid welding & cutting.
- **Shifting of piles (pipes of 45m length) from splicing yard to site** - Shifting of piles segments up to 45m length from fabrication yard to site was successfully operated by indigenously available hydraulic power pack engine driven, fitted with site fabricated trolley.



Profile



Mr. Gokul Javalikar

Mr. Gokul Javalikar completed his B.Tech (Civil) from REC in the year 1980 and since then with AFCONS for past 32 years. Over 3 decades of gigantic experience in handling various responsible positions and completing landmark projects for AFCONS makes him veteran in Infrastructure Industry. Currently he is designated as Head - Marine and Industrial.

Mr. Javalikar is a totally dedicated AFCONIAN who believes that complete 360 degree project management and sustainable long term client relation will take AFCONS to the new heights. He is relentlessly working towards achieving one of AFCONS key goals, i.e. to be among the top 10 marine contractors in the world by 2015 and be among the top 5 marine contractors by 2017.

His initial stint in AFCONS saw the completion of LIC Building (New Delhi), Container Terminal (Chennai), Pile foundation for NALCO (Damanjodi) and several others. As a project manager he delivered the projects like Railway Bridges in Kudal for Konkan Railway, Pile Foundation work (BSES), LNG terminal for Shell Hazira (Gujarat), 4 laning Haveri to Hubli Road (Karnataka), etc. to name a few. Later, as a Project Controller he was involved in projects such as-GMR Kakinada, fabrication for Algeria project, container terminal for Hazira for Adani, Phase one at Liberia for ArcelorMittal, etc.

Married to Ms. Sandhya, Mr. Javalikar has a son and a daughter. Sandhya is a housewife, son Aditya is doing MS in New York and daughter Sumedha is studying in Dental Medical in Karnataka.

Admiring the contributions of Mr. Javalikar, our Managing Director says, "Gokul apart from focusing on the timely completion of the projects also keeps an eye on the commercials. To that extent, he is a good example of a total business manager".

Offshore Oil & Gas



AFCONS has entered into the offshore market for the first time in March 2009 with a process platform (ICP-R) for ONGC India of US \$366 million with PT Gunanusa of Indonesia as JV partner. The ICP-R process platform is one of the high-end process platforms in IC complex. This process platform is having process facilities and compressor module along with utility services such as Gas Turbine Generator, HP, Cyclone separator, Building Module, Bridge, Flare Tripod, Deck cranes, GTG, etc. AFCONS completed the job and delivered to ONGC on October 2012.

Project ICP-R has seen many innovations carried out by AFCONS which were first of its kind such as - 4 legged jacket without main piles is a first in Mumbai High, Vertical pile driving (First time in Indian Offshore) eliminated chaser piles, In a first of its kind the transition pieces were welded to the jacket in onshore yard, etc. Along with the innovations the project has witnessed major achievements namely, clocking cumulative man hours of 6million+ without Lost Time Incident, no major NCR on quality of work performed, tallest Platform in IC complex, after connection to ICP making it the largest complex in ONGC.

Recently, AFCONS bagged another US \$290 million contract to develop HRD process platform for ONGC. The contract has been awarded to a consortium led by AFCONS with Technip KT India and THHE Malaysia. The scope of the work includes engineering, procurement, installation and commissioning of the project, which is expected to be completed within 28 months. AFCONS is the

leader of the consortium and responsible for Project Management, Survey, Procurement, Fabrication, Transportation, Installation, Modifications, Hook-up, Testing, Pre-commissioning and Commissioning of this project. It has opted for unique non conventional approach for installing the platform by *floatover methodology*, which is going to be used for the second time in Indian water. The platform is having wellfluid processing capacity of 55000 Barrels per day and gas compression of 3.2 million Cubic Meters per day. The major fabrication works would be undertaken at PTSE yard in Vietnam and NPCC yard in Abu Dhabi. Kawasaki Heavy Industries (KHI), Japan are the suppliers of gas compression system.

Life at AFCONS

Durga Puja Celebration at HO

Durga Puja (Dussehra) was celebrated on Tuesday, 23rd October 2012 at AFCONS House with great spirit and enthusiasm. The day began with the Gate Pooja performed by our Honourable MD, Mr. K. Subrahmanian, followed by Sri Satyanarayana Pooja performed by Mr. & Mrs. Subrahmanian.



The Cultural events started at 2.30 pm on 6th floor. The 3 hours cultural program included Dance, Skits and Singing performances by various employees. A perfect blend of songs from different genres provided a perfect flavour to the programs.

At the end of the cultural events, prizes were distributed by Mr. K. Subrahmanian, Mr. S. Sankar & Mr. P. R. Rajendran to all the Dussehra Committee

members, participants and winners of sports activities; to acknowledge their efforts in making the event a huge success.

Christmas Celebration at Sites



Christmas Celebration - KRCL - 25th Dec 2012

Christmas party was organised at various sites like Chenab, KRCL, CMRL & Liberia on 25th December 2012.

New Year Celebration at Chenab Site

New Year was celebrated at our Chenab site with great zeal and enthusiasm on 31st December 2012. The function started at 8.00pm with various cultural programs like individual songs, musical chair, kids dance, antakshri and camp fire. Later prizes were distributed to all winners participated this function.



HSE

Behavior Based Safety Training

As a part of AFCONS strategic initiative, **Behavior Based Training program** was conducted for the senior management at all operating sites of AFCONS.

EMS/OHSAS Recertification Audit

EMS and OHSAS recertification audit was successfully completed in December 2012. Scope of certification was revised during the audit and Metros and Oil & Gas sectors are included in it.

Pulmonary Health Camps at Sites

AFCONS medical consultant Dr. Prafulla Thorat with the help of Cipla Respiratory department had conducted a screening camp for the workers and supervisors at the KMRC and RVNL sites in Kolkata, wherein they were screened for any respiratory problems like Asthma and COPD (Chronic Obstructive Pulmonary Disease). Similar respiratory health camps will be conducted at all operating sites this year.

Event

Launch of AFCONIANS - An Intranet Portal

AFCONIANS was launched on 19th December 2012 with the objective of imbibing AFCONS culture, i.e. to be an innovative, collaborative and a continuous learning organisation. AFCONIANS delivers three dimensional communication flow between organisation to employee, employee to employee and employee to organisation.

Launch of AFCONS GNOSIS (KM portal) at Sites

To take the KM Initiative further, AFCONS' KM team launched AFCONS GNOSIS - KM portal at all the project sites (except KMRC & RVNL), where awareness programs were conducted. KM team has appointed KM ambassadors at each sites to carry out KM related activities at sites and co-ordinate with KM Team at HO.



HR Corner

Middle Management Development Program (MMDP)

The second phase of Middle Management Development Program (MMDP) for the year 2012 was conducted at HO from 3rd to 6th December, 2012.



The program was designed to provide inputs to the participants in the areas of technical as well as behavioral functions, for better understanding of technicalities in business and people management. This phase was a blend of technical and leadership modules, which provided insight in various disciplines such as - finance, HSE and soft skills.

CPE Annual Conclave

The CPE Annual Conclave was held at HO from 07th to 09th November 2012, where 29 nominated employees of the CPE department from various sites were participated.

The main objective of the Conclave was to make the employees understand how to utilize the resources effectively, give them an insight about tunneling



methodology and improve their interpersonal skills. The key topics covered in the conclave were - productivity management, cost effective management, improvement of energy efficiency and innovation. The Conclave was followed by a competency based soft skills training to the employees, by corporate trainer Mr. Nimesh Rathod from Addecco.

Financial Wellness Workshop

As a part of AFCONS drive towards achieving Whole Wellness across the organization, a workshop on Financial Wellness was conducted at Jammu & Udhampur projects site from 29th October to 1st November 2012.



The objective of the workshop was to build employees awareness about their current financials and provide them an understanding of their different financial needs like - Personal Financial Planning, Financial Planning Process, Savings and Investments, Equities, Mutual Fund, Insurance, etc. The workshop was conducted by Mr. Ramesh Jha of our Finance Department.

Communication Skill Workshop at Dahej Jetty Project

An oral communication workshop was held at our Dahej Jetty site on 10th October 2012.

The purpose of the workshop was to enhance the oral communication of the participants so that they can be more effective at their workplace. The key topics covered in this workshop were - oral communication, communication skills, verbal communication and effective interpersonal communication.



Tunnel Boring Machine (TBM) launch at Chennai Metro Rail Site on 28th December 2012

Editorial board : S Paramasivan, Sandeep Desai, Bhakti Prasad, Krishnakumari C, Debendra Mohanta



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