



ElectroMech

| Solutions | Service | Satisfaction |

Newsletter Q 4 : 2011-12



HB System
in action at
Schlumberger

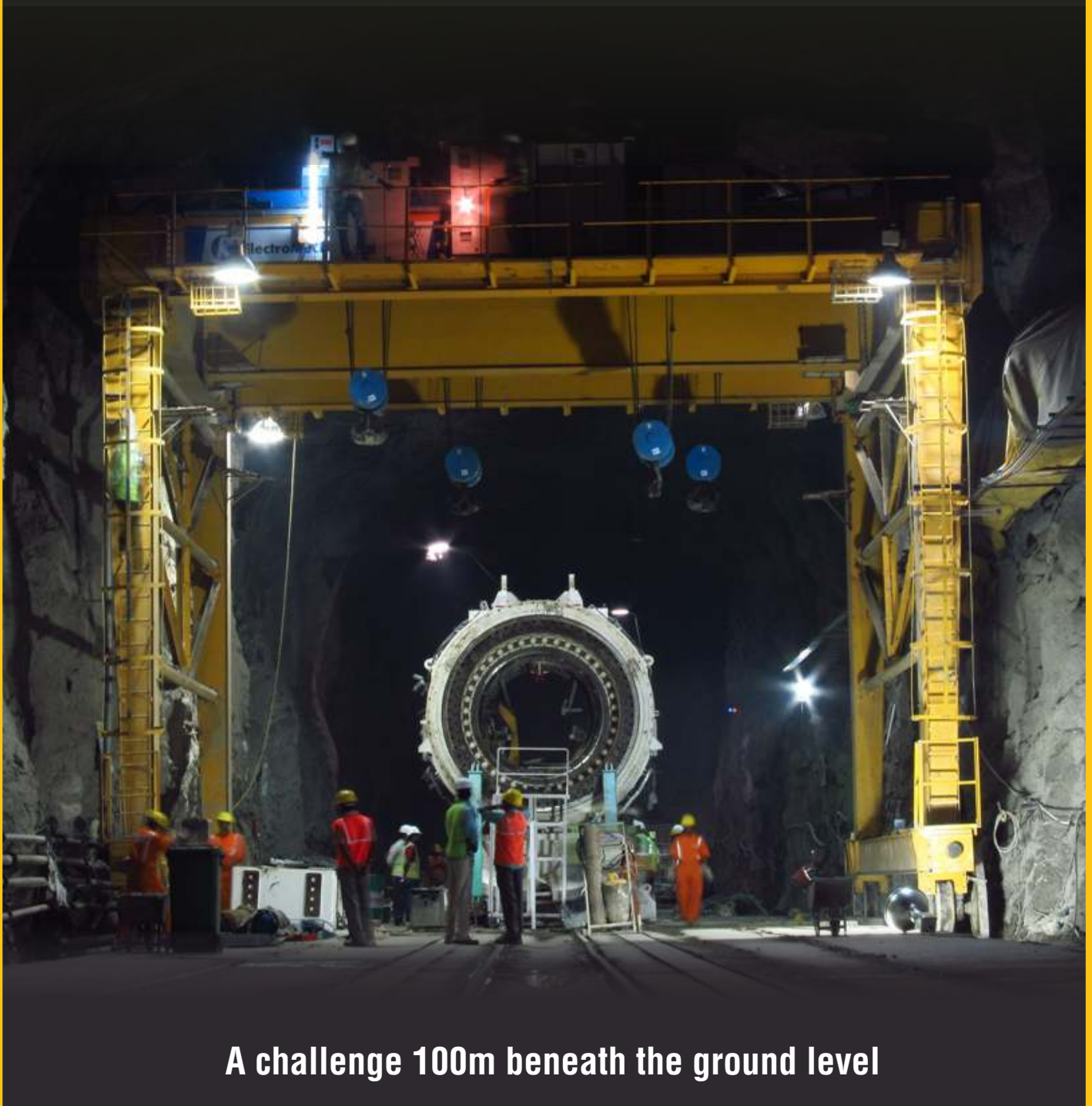
Prestigious order
from NPCIL



Shuttlelift
launches
DB series RTG

EMPOWER

Lifting & Handling



A challenge 100m beneath the ground level

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ElectroMech FZE - Material handling 2011 exhibition



Recently, ElectroMech FZE - a 100% subsidiary company of ElectroMech participated in Material Handling 2011 exhibition in Dubai. This participation was jointly with STAHL CraneSystems, Germany which is our strategic partner. During the show, a STAHL hoist was displayed which was a major attraction for the visitors. Our stall was visited

by a number of eminent companies which indicated keen interest in ElectroMech FZE offerings such as single girder cranes, double girder cranes, gantry cranes and tunnel mucking systems. With this overwhelming response, ElectroMech FZE is looking forward to excellent performance in the year 2012.

New website of ElectroMech FZE www.emech.ae

A dedicated website of ElectroMech FZE, was launched in November 2011. This interesting website gives a complete idea of our solutions offerings, their specialities, application areas and also our network in the Middle East region.





Tushar Mehendale
Managing Director

Some of the high lighting
point from the para
Some of the high lighting
point from the para
Some of the high lighting
point from the para
Some of the high lighting
point from the para

Take my word!

Dear customers, colleagues, business associates and well-wishers of ElectroMech,

As an ambitious company that is bent on attaining the leadership position in the material handling industry globally, we, at ElectroMech, are always doing something newer and more exciting. Thus, it gives me pleasure to introduce one more issue of our newsletter, EMPOWER that chronicles the latest at ElectroMech.

Considering the long-term growth plans of ElectroMech and to ensure proper funding for this growth, ElectroMech took on an exciting move of inducing Private Equity investment in the company. This paves our way to pursue exciting growth opportunities involving strategic investments, consolidations and new product introductions. India is all set to reach a figure of USD 5 Trillion in GDP by 2020 from a level of approximately USD 1.5 Trillion currently. This massive growth, expected to happen in the compressed time frame spread over the next decade, throws up a lot of exciting challenges. We, at ElectroMech, believe that this is a once-in-several-centuries opportunity that needs to be tapped properly as this opportunity is never going to come up again. Hence, having the right financial partner with us helps us in making our foundations stronger and fuels our growth plans.

This issue also talks about the two latest tie-ups we have entered into - Sibcranex of Russia and Shuttlelift of USA. This could have been considered to be a political coup in the eighties as getting Russian and American collaborations for the same company was quite unlikely. However, the world has changed for the better and India is the place where the action is.

Through Sibcranex, we aim at participating in the growth set to unfold in the Indian steel industry where more than 100 Mn MT of annual steel producing capacity is estimated to be set up in the next decade.

Through Shuttlelift, we are introducing an exciting new product - **Rubber Tyred Gantry cranes** for industrial applications. We believe that this product can revolutionize the way bulky items are handled at sites and improve productivity and enhance safety of men and material.

We are proud to be associated with several prestigious infrastructure projects like coal power plants, water supply, sewage, nuclear power plants and renewable energy. This issue shares with you some details of the projects that we have been associated with.

Technical leadership is something that is not developed overnight. The Stahl Ex range of products is a perfect example of this. Being in existence since 1920s, the Ex range of products from Stahl continues to dominate the global market technologically. We have an interesting write-up in this issue showcasing Stahl Ex's technical prowess.

Our services subsidiary, Cranedge continues to cover newer ground every passing day. In this issue, we are proud to share with you the way Cranedge helped one of our esteemed customers derive maximum ROI by refurbishing old equipment and enhancing productivity and safety.

Happy reading!

Tushar Mehendale



soma

A challenge 100m beneath the ground level

ElectroMech has designed a special crane with unique triple girder design and 4 crabs of 25MT each. With the use of the 4-crab arrangement, it becomes extremely easy to assemble longer parts of the TBM.

The project

Carrying a 1km long TBM (Tunnel Boring Machine) 100 meter beneath the ground level through a tunnel / shaft was the challenge posed before ElectroMech by the construction giant, Soma Enterprises Ltd. And as usual, we handled it swiftly while demonstrating a well-orchestrated performance along with the engineering team of Soma.

It all began when Soma was awarded the challenging contract to construct an underground water tunneling project for Brihanmumbai Municipal Corp. (BMC).

Mumbai is the fourth most populous city in the world with population around 20.5 million. Providing water uninterruptedly to such a large population and industries around has always been

a challenge for BMC - the city's civic body. To effectively meet this challenge of today and future, Government of Maharashtra sought help of Government of India under its Jawaharlal Nehru National Urban Renewal Mission (JNNURM). This entire project would replace the outdated pipelines which have been providing water to Mumbai from the Tansa reservoir. The estimated cost of the project would be INR 2,235 crore. The entire project, divided into two parts, is awarded to Unity-IVRCL joint venture and Soma Enterprises Ltd. After successful implementation, the project would put Mumbai-India's commercial capital at par with other cities of the world such as London, Hong kong, Seoul.

The challenge

As per the project planning by Soma in the first phase, the tunneling will be completed from Kalher till Kapurbavdi.

Accordingly, work started at Kalher, where a shaft of 100m depth and 10m width is dug. The entire tunnel will be 100m beneath the ground level. For excavating the tunnel, Soma had two options. The first was the conventional rock drilling and blasting, and the other was that of using a most modern TBM (Tunnel Boring Machine). Till November, 2011 Soma completed the digging and concreting of the 100m deep shaft and excavated 1km

The solution

For handling this challenge successfully, ElectroMech is involved at two critical stages. The first stage is of lowering down hundreds of components into the tunnel through the 100m shaft. And the second was to assemble the complete TBM inside the tunnel itself. Soma selected ElectroMech as its trusted partner to meet these handling requirements most efficiently. The selection was based on Soma's previous experience of ElectroMech's competency in the field.

ElectroMech installed a 120MT Gantry crane at the opening of the shaft. This crane served two purposes. It acted as a shaft mucking crane for removal of overburden while digging the shaft of 100m depth. Secondly, it helped in lowering hundreds of components of the TBM into the tunnel. The challenging task of lowering an 11m long (95.5T weight) component through the 10m diameter shaft was carried out ingeniously. For this, we designed a special attachment

beam which was precisely tilted to a predetermined angle and then lowered through the tunnel. Also, the 100m height of lift meant a wire rope of almost 2.5km. ElectroMech designed a multi-layer rope drum with a guiding mechanism to meet the requirement. The same crane was also used for routine up-down movement of workforce for which a 15MT auxiliary hoist was provided.

The second challenge was posed in the form of the assembly of the TBM. For this purpose, ElectroMech designed a special crane with unique triple girder design and 4 crabs of 25MT each. With the use of the 4 crab arrangement, it becomes extremely easy to assemble longer parts of the TBM. The crane movement also needed precision as the alignment and matching of the TBM parts is very crucial.

By meeting both these challenges successfully, ElectroMech is indirectly playing a crucial role in BMC's ambitious 24x7 water supply project.



long tunnel at this depth using the conventional method. For further work, Soma decided to use a modern TBM and chose Herrenknecht, Germany to hire the TBM.

A TBM is a mammoth machine, 1km in length, 100MT in weight and consisting of 100s of components. To assemble this machine on site is a herculean task. Once assembled, it appears like a train with the only difference of the cutter head at the front instead of an engine. It excavates the tunnel just like an earthworm.





Schlumberger

Schlumberger - high quality cranes from ElectroMech for clean-room environment

Introduction

Schlumberger - the name synonymous with quality, has an equally interesting beginning. The company was started in the early 1900s by two brothers, Conrad Schlumberger, a physicist and Marcel Schlumberger, an engineer. It all began with Conrad Schlumberger's idea that metal ore can be distinguished from their surroundings by measuring their electrical conductivity as ore-bearing rock would be more conductive than what is around it. If an electric field could be generated below the ground, voltage measurements at the surface could be mapped to show lines of equipotential curves, which could then be compared with what would be expected if no ore were present. Any differences could indicate the presence of mineral deposits. Now, he needed to put the theory to test.

In 1910, Conrad Schlumberger began teaching physics at the École des Mines, where, the following year, he started tests on what was to become known as wireline logging, first in the lab and then out in the field.

In 1912, using a very basic equipment, he recorded the first map of equipotential curves at his estate near Caen in Normandy before extending his surveys to iron mines in the area. The resulting mapping of equipotential curves not only confirmed the method's ability to detect metal ores, but also revealed features of the subsurface structure, such as bed boundaries and the direction of formation layer dips.

Award-winning performance of Team ElectroMech at Schlumberger, Nerul base. Successfully erected and commissioned 7 cranes in a record timeline of only 6 months. The ingenious solution including 3 HB Systems received special appreciation from this prestigious client.



The project

ElectroMech got involved with the project during the second month of its extremely short 6 months time line. The intent was to have the entire set up ready for operation in 6 months time, which included completely razing the existing set up and constructing a new base for Schlumberger. The set up that stands today comprises 7 EOT cranes. Of these, three are HB systems, one each for the Electronic Laboratory, Sonde Laboratory and MDT Laboratory. These are dedicated for the maintenance of rig equipments. Although the original requirement was to have EOT cranes in these facilities as well, however, the ElectroMech team insisted that the HB system would be the right solution for these sophisticated laboratories!

HB System, other than being a great combination of advanced technology, economy, flexibility, quality and most important of all, very user-friendly product, has the greatest advantage in the fact that it can be installed by suspending to almost any type of roofing or support structure. The low build design ensures maximum hook height.

Today, the fully operational facility is used for the maintenance of rig components as well as satellite components from Schlumberger's installed base. Schlumberger was certainly happy with ElectroMech's contribution in providing an appropriate solution as well as adhering to their strict timeline. They recently appreciated our performance with an award for record on-time completion of the same. ElectroMech is proud to be associated with this prestigious project and looks forward to continuing with our tradition of providing the best solutions to our customers.



That Schlumberger's technique could provide this extra information was highly significant, as it meant that it might be useful for locating subsurface structures that could form traps for minerals such as oil and gas.

It was just a matter of time that the electrical prospecting method could be turned into an industrial application. Today, Schlumberger stands as a leader in Marine seismic to drilling operations, covering the entire domain of Geo-Physics.

For the organization with 25 R&D facilities around the world, a base in India was a logical step. Schlumberger has been in India for the past 77 years, with a research centre in Pune and a technology centre in Kakinada, to name a few. Their new dedicated maintenance facility, located in Navi Mumbai, exemplifies the quality factor that they are renowned for.





Prime Electric installation - Successful handling of a new challenge

At PEL, ElectroMech cranes are expected to integrate the handling of transformers through various processes and assembly stations from incoming raw material to the dispatch bay.

ElectroMech has supplied 14 cranes ranging from 5MT, 8.5m span to 150/30MT, 30m span.

ElectroMech has achieved another milestone by adding 'Prime Electric Group' - a leading manufacturer of Transformers to its client list. The plant has recently been commissioned and all ElectroMech cranes are operational, helping them to achieve the required handling task.

Introduction

Prime Electric Limited (PEL) is one of the largest transformer manufacturers in India catering to the requirements of Indian and international markets for power utilities, EPC companies, substations, power generation, transmission and distribution companies and large industries from various sectors (steel, cement, petroleum, petrochemicals, etc.) using bulk power.

PEL is one of the most significant activities of the Prime Group. The rich experience of the Prime Group in addressing the most exacting needs of the power sector and through its range of eco-friendly (low noise), aesthetically designed, extra high voltage power transformers up to 1000MVA/500kV. PEL's production capacity, projected to 35000MVA, makes it one of the largest manufacturers from India, producing world-class extra high voltage power transformers for users across the globe. PEL's 100 acres manufacturing location at Nayudupet Special Economic Zone in Nellore district of Andhra Pradesh has excellent connectivity.



ElectroMech solution

ElectroMech has supplied 14 cranes ranging from 5MT, 8.5m span to 150/30MT, 30m span. ElectroMech cranes ensure complete integration of handling on the shop-floor while covering every process station and reaching every corner. These cranes cover the handling requirements existing at various places on the shop-floor including handling of raw material such as steel coils and copper plates, various assembly stations, core winding stations, vacuum chamber, oil filling station, testing room and finally, the dispatch bay. ElectroMech cranes are supplied with ABUS hoists which ensure precision handling, jerk-free movement, lower maintenance and highest safety.

ElectroMech is proud to be associated with Prime Electric Ltd. for one of their largest transformer manufacturing facilities in India.

A challenge for ElectroMech

The task assigned at Prime Electric is challenging in several aspects. ElectroMech cranes are expected to integrate the handling of transformers through various processes and assembly stations from incoming raw material to the dispatch bay. As the transformers pass through the assembly, their weight gradually increases, finally reaching up to 150MT. ElectroMech cranes cover the entire length and width of the shop-floor, providing maximum coverage by reaching every nook and corner. The most critical part of the process is filling of oil in assembled transformers. For this, the transformer is to be lowered into a vacuum chamber where it is completely dried to make it moisture-free. Here, precision positioning using the cranes is very important. After this, the transformer is filled with oil and to be moved without any jerks. Hence, the cranes should be able to handle the load ensuring absolutely jerk-free movement.



Application

ElectroMech cranes are used in handling and lifting of transformers and their parts in the assembly line. The complete scope of supply includes -

- 150/30T, 30m span, 16m lift
- 150/30T, 30m span, 16m lift
- 150/30T, 30m span, 16m lift
- 50/10T, 30m span, 17m lift
- 30/10T, 30m span, 17m lift
- 30/10T, 15m span, 11m lift
- 15T, 15m span, 11.4m lift
- 15T, 10m span, 11.4m lift
- 10/2T, 20m span, 11.4m lift
- 10/2T, 20m span, 11.4m lift
- 10/2T, 10m span, 11.4m lift
- 5T, 30m span, 22.7m lift
- 5T, 30m span, 11.7m lift
- 5T, 10m span, 11.7m lift



Shuttlelift launches a new series of double-beam mobile gantry cranes - DB series

Shuttlelift's evolution continues... and it comes with no compromises

Precise operational efficiency. State-of-the-art handling technology. Cost effectiveness. High return on investment.
New DB-Series - A perfect blend of all these features

Shuttlelift has announced the launch of a newly-developed series of double-beam mobile gantry cranes designed to provide state-of-the-art material handling and operational efficiency at an exceptional value. As an industry leader in Rubber Tyred Gantry cranes (RTG), Shuttlelift's new DB Series was engineered in response to a growing need in the market place for cost-effective lifting solutions for customers needing to lift heavy, bulky items from production to transport.

The DB series gantry crane is the perfect solution for markets seeking high-quality crane performance and a high return on investment. The crane provides safe and quick picks, as well as minimizes costly maintenance and down time. When value is measured by the return on investment, the DB series provides exceptional functionality, efficiency and cost savings at every point. Shuttlelift has created a crane with standard 'extra' features that go beyond the industry's expectations and provide something 'more' compared to the competition. That is a formula that will allow customers to improve their operations and expand their business.

To set Shuttlelift apart, valuable features are included standard on every machine. These features not only extend the life of the mobile gantry crane, but also allow precision control, provide exceptional operator ergonomics, and minimize maintenance and servicing needs.

Shuttlelift's value-added options allow for greater crane performance with a Wireless Remote Control, Automatic Variable Throttle (AVT), Wireless Load Read-Out, All Wheel Electronic Steering, or the Auxiliary Power Hoist System (APHS). The mobile gantry crane will provide operators with greater control, cost savings and efficiency, all in one unit.

Shuttlelift Rubber Tyred Gantry cranes are the preferred customer-inspired solution for heavy lifting requirements and are manufactured to specifications for a multitude of applications worldwide. The company manufactures cranes with capacities ranging from 15 to 1,000 U.S. tons, all of which are supported by a global network of experienced dealers. Through superior engineering innovations, Shuttlelift has become one of the premier lines in today's material-handling industry.



ElectroMech receives order from Nuclear Power Corporation of India Limited (NPCIL). Largest ever from the power sector.

ElectroMech delivers powerful performance in the nuclear power sector. Bags coveted order of 29 EOT cranes for NPCIL's Kakrapara project.

ElectroMech has received a prestigious order for 29 EOT cranes for critical handling applications for the 3rd and 4th unit of NPCIL's Kakrapara Atomic Power Project. This is the first prestigious order received by ElectroMech from the nuclear power sector and is further testimony to our technical and commercial capability in the field of EOT cranes.

Order location: 2 X 700MW Kakrapara Atomic Power Project, Unit 3 & 4, Near Surat, Gujarat

Crane specifications: Total 29 nos. of cranes of various SWL capacities. This includes 3 Single Failure-proof Cranes.

Crane applications:

1. To handle spent fuel bundles in the spent fuel storage bay (SFSB)
2. Single failure-proof cranes to handle critical components/equipments and also traverse over critical components/equipments.

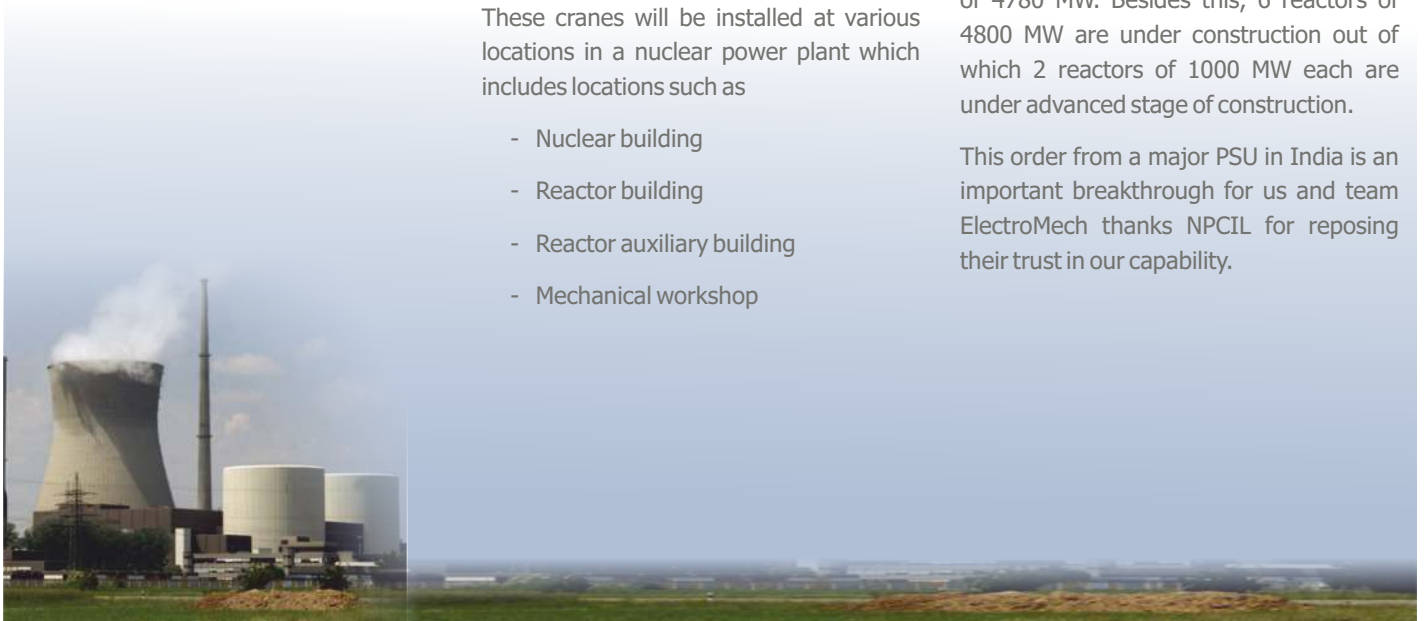
These cranes will be installed at various locations in a nuclear power plant which includes locations such as

- Nuclear building
- Reactor building
- Reactor auxiliary building
- Mechanical workshop

Nuclear Power Corporation of India Limited (NPCIL) is a Public Sector Enterprise under the administrative control of the Department of Atomic Energy (DAE), Government of India. The company was established in 1987 with the objective of operating atomic power stations and implementing atomic power projects for generation of electricity in pursuance of schemes and programs of the Government of India under the Atomic Energy Act, 1962.

NPCIL also has equity participation in BHAVINI, an organization formed for implementation of the Fast Breeder Reactors program in the country. NPCIL is responsible for the design, construction, commissioning and operation of nuclear power reactors. NPCIL is an MoU-signing, profit-making and dividend-paying company with the highest level of credit rating (AAA rating by CRISIL and CARE). NPCIL is presently operating 20 nuclear power reactors with an installed capacity of 4780 MW. Besides this, 6 reactors of 4800 MW are under construction out of which 2 reactors of 1000 MW each are under advanced stage of construction.

This order from a major PSU in India is an important breakthrough for us and team ElectroMech thanks NPCIL for reposing their trust in our capability.



Date : August 23, 2011
 Venue : Powai, Mumbai
 Attendance : 50 delegates
 Honorable Guest : Mr. Terry Fletcher,
 Stahl CraneSystems,
 Germany
 Media Partner : EPC&I magazine



ElectroMech - Stahl Knowledge Forum

Explosion protected hoists & cranes from Stahl now have dual certification. The additional IECEx certification ensures that the equipment can be commissioned without further testing.

ElectroMech has always been in sync with the latest technologies and new products in the EOT cranes market. ElectroMech Knowledge Forum is one such initiative, held frequently for our customers with the help of industry veterans. These forums allow an exchange of know how with the industry and provide a platform for industry professionals to highlight their specific requirements based on the challenges they face. Ultimately, this ensures that right solutions are provided with inputs from the industry, bolstered by the knowledge about new technology available in the market.

Preparation for the Mumbai conference started well in advance to assure its success. It was held on August 23, 2011 at Renaissance Hotel, Powai. Our honorable guests included eminent technocrats, industrialists and consultants from the oil and gas industry. The forum highlighted ElectroMech's offerings to the oil and gas industry of explosion protected hoists and crane solutions through Stahl CraneSystems, Germany.

The top management of ElectroMech shared the product knowledge with the audience, making the event more interesting. ElectroMech's Managing Director, Mr. Tushar Mehendale shared a few words of inspiration with our guests. He narrated ElectroMech's journey of becoming India's largest volume manufacturer of cranes and the ambition to provide solutions to the growing oil and gas sector in India, which is being fulfilled by its technology partner Stahl, the world leader in explosion-protected hoists and cranes. ElectroMech is the exclusive Indian partner for Stahl-manufactured Ex range of products such as hoists and cranes. These are suitable for use in hazardous, explosion-prone areas (Zone 1 & Zone 2) and highly dusty environments (Zone 20, Zone 21 and Zone 22).

The presence of Mr. Terry Fletcher from Stahl, Germany generated special interest. His presentation explained the capabilities of explosion-protected cranes in the oil and gas industry and provided insight into



Forum participants speak

why the Stahl explosion-protected solutions provided by ElectroMech are world-class products.

Stahl products now have dual certification and the additional IECEx certification ensures that equipment with this certification can be commissioned without further testing.

Mr. Raj Srivastava, CEO of Cranedge stressed upon the importance of after-sales service and preventive maintenance and assured the attendees of keeping their explosion protected hoists and cranes in the best of condition.

ElectroMech is thankful to all the participants for their positive response to the forum and reposing their faith in us. We look forward to providing you with the best solutions for the years ahead.

It is definitely informative. Especially, we were not aware of different zones that were mentioned here and different standards that need to be adhered to. At the end of the day, this being a Knowledge Forum, we did learn a lot.

- Abhijeet More, Asst. Manager - Procurement, L&T Hydrocarbon (Upstream)

This Knowledge Forum has certainly been of help, especially the various zones and standards, and the products on offer for each. We were not aware of all these. So, in that sense, this Knowledge Forum has been helpful. In cranes and hoists, there are very few quality suppliers. And looking at today's presentation, I would certainly prefer Stahl.

- Rajdatta Patil, Asst. Manager, Procurement Dept. Materials Division, Toyo Engineering India Ltd.

Once we started working with ElectroMech, we realized the superior quality of their products, about the services they offer. It is only recently, that I have come to realize that they have a tie-up with Stahl Cranes. So, I am recommending these to our overseas clients. What will work in favor of Stahl is their quality, services, compact design of their hoists, capacities that they offer. They score over others.

This Knowledge Forum was a revelation, I must say that. I have gained a lot of knowledge about the standards that need to be followed.

- Sumeet Gupta, Deputy Manager, Aegis Limited, An Essar Enterprise



Installation at Amtek Auto Ltd. A challenge for our problem-solving ability

Client : Amtek Auto Ltd.
No of Cranes: 6 No.
Specification of Crane: ?????????
Location of Crane Installation:
Dharuhera (Rajasthan)

About Amtek Auto Ltd.

Amtek Auto Ltd. is headquartered in New Delhi and is one of the largest integrated automotive component manufacturers in India with a strong global presence. The company has world-class manufacturing facilities in India, Europe and North America. Amtek Auto has significant expertise in forging, gray and ductile iron casting, gravity and high-pressure aluminum die casting and machining and sub-assembly. The company also manufactures components for non-auto sectors such as railways, specialty vehicles, aerospace, agricultural and heavy earth moving equipment.

This article talks about an interesting event which is not related to any special requirement of cranes, but a very unusual logistic challenge. We recently supplied 6 nos. of ABUS ZLK cranes to Dharuhera, Rajstan plant of Alliance Integrated Metaliks which is a part of the Amtek Group.

The challenge

The site had a restriction in the form of a very sharp turn within the factory premises that would not allow a trailer longer than 60ft to turn around that bend and enter the site. However, the span of the cranes supplied to the client is 26m (approx. 86 feet). This necessitated the shipment of these crane girders on an 80ft trailer. Though the journey of this trailer till Dharuhera was smooth, it faced a problem while entering the site.



The solution

While anticipating and realizing the challenge posed by the site conditions, our installation team was ready with a simple, but ingenious solution. They simply transferred the girders to a 60ft trailer, allowing the girders to enter the site. It sounds very simple, but surprisingly, this solved their major problem of bringing in the other machinery as well. The Amtek team, impressed with our job, asked us to repeat the entire procedure. They captured a video of this procedure to be displayed to their other vendors who supply bigger machinery to them. After witnessing the entire process, the client was confident that it will solve their major problem and will surely help other vendors in easily bringing their machinery inside the plant.

Several such small and big challenges on site help ElectroMech to hone its skills and develop problem-solving ability to be truly called a Solutions Company.

Major Orders

- Nuclear Power Corporation Of India - 31 nos.
- Hindustan National Glass & Industries Limited- 8 nos.
- Mahalakshmi Vidyut Pvt. Ltd. - 6 nos.
- Prime Hi-Tech Engineering Ltd. - 4 nos.
- Jindal Polyfilms Ltd. - 5 nos.
- L&T ECC - 3 nos.
- Multimetals Limited - 3 nos.
- L&T MHI Boiler - 1 no.

The damaged crane



The crane after repairs



cranedge
 upkeep • upgrade • upraise

ElectroMech - Cranedge Fighting nature's wrath

A damaged crane was reconditioned after reverse engineering, design, manufacture and supply of damaged parts, assembly and load testing. The task was completed in a record time.

Heavy Engineering Corporation Limited, one of the largest steel plant equipment manufacturers of its kind in Asia, had supplied EOT cranes to Nilanchal Ispat Nigam Ltd., (NINL) located at Kalinganagar Complex, Duburi, near Cuttack-Jajpur road.

The cranes were erected and the project was nearing commissioning. One of the cranes (80/20T) which was due to be commissioned, fell victim to nature's wrath. In the month of June 2009, a cyclone packing winds of more than 180km/hr blew the crane away which weighed almost 150T. The crane fell from a height of 22 meters and was severely damaged under the impact of its own weight.

HEC needed to rectify the damaged crane and bring it back to the operational level. Since the OEM had certain reservations in taking up the job, HEC was forced to look for a competent manufacturer to take up this challenging task and who could be better than ElectroMech to execute it!

ElectroMech, with the support of its service partner, Cranedge India Pvt. Ltd. (a company specializing in crane services and revamping work) took up the challenge.

A special team was formed, led by Mr. Omkar Majumale to complete this daunting task. The scope of work consisted of complete dismantling of the crane at NINL Duburi, transport it to ElectroMech Pirangut, complete reconditioning of the crane which included reverse engineering, design, manufacture and supply of damaged parts, assembly, load testing and transport back to NINL Duburi.

The crane was badly damaged and to add to the woes, the crane was not stored properly which led to rusting and accumulation of dust. This did not deter our team. Instead, they took it as an opportunity to explore new horizons. Throughout the project, the team remained focused, complemented each other and completed the work within the given time frame without compromising on the quality and safety norms.



Training at L&T ECC

Tips to select right crane solutions

A one-day training program covering selection, operation, erection and maintenance of EOT and Gantry Cranes was conducted for 35 team members from the middle level technical management team of L&T ECC on August 24, 2011 at New Delhi. The program facilitator was Mr. S. Raman (Head, Engineering).

The training covered the following topics:

- Introduction to material handling
- Types of cranes ➤ Classification
- Crane geometry ➤ Crane mechanisms such as hoisting, cross travel and long

travel ➤ Crane structural ➤ Crane electricals ➤ Painting ➤ Owning and operating cost ➤ Erection ➤ Safety

The training emphasized the importance of selecting the appropriate type of crane and the methodology for determining the class of duty.

Mr. Suhail Bajaj introduced Shuttlelift RTG (Rubber Tyred Gantry Cranes) which ElectroMech offers in association with Shuttlelift of USA. The advantages of opting for a Shuttlelift from the point of

view of usage, cost effectiveness, safety, etc. were explained to the delegates.

Mr. Shahzad Hussain (Co-ordinator, Business Development, Cranedge) explained at length the activities of Cranedge. He explained that Cranedge services can be extended to cranes of all makes - Indian or foreign.

The overall training program highlighted the importance of proper crane selection and its upkeep for ensuring a higher level of efficiency and safe working over a longer period.

ElectroMech participates in industry-specific exhibitions

ElectroMech was present in four recent exhibitions which have been very specific to Nuclear Power, Engineering and Construction industries.

India Nuclear Energy Summit 2011 was held in Mumbai from September 29 to October 1, 2011. This was visited by several eminent delegates from the power sector. ElectroMech's complete range of cranes suitable for nuclear, thermal, wind and hydro electric projects was showcased during the show and received good attention of visitors from different companies in the power sector.



India Nuclear Energy 2011, Mumbai

EXCON 2011 was another such important exhibition for ElectroMech considering our significant presence in the construction industry. ElectroMech cranes are an integral part of several prestigious infrastructure projects. Our new introduction of Shuttlelift - Rubber Tyred Gantry cranes (RTG) play a pivotal role in

the construction industry due to their capability of working on uneven surfaces and easy mobility. All these cranes were showcased in EXCON 2011 exhibition.

ElectroMech was also conspicuously present in two engineering exhibitions. INTEC 2012 held at Coimbatore and IMTEX 2012 at Bangalore.



ElectroMech

| Solutions | Service | Satisfaction |

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