

JEL Clinches Contract For Muara Tawar Gas-Fired Combined Cycle Power Plant

Marubeni's award is based on its confidence in JEL's decades of expertise in power plant M&E work and the recent successful completion of the Tarahan project.

JEL has been awarded a contract by Marubeni Corporation for the Muara Tawar gas-fired combined cycle power plant Block-5 in Java, Indonesia. The project is located in the existing Muara Tawar plant in Bekasi district on the northern coast of Java about 35 kilometres from Jakarta.

The economy in Indonesia has been driving up electricity demand while rising oil price has been pushing private factories to stop their oil-fired small power plants and instead switch to Perusahaan Listrik Negara (PLN) power. This reduces their energy costs.

The Indonesian national electricity utility PT PLN (Persero) has awarded this Muara Tawar Block-5 contract to the consortium of Alstom and Marubeni.

The new unit will increase the total output of the plant by 225 MW from the current 1,800 MW, thus increasing the capacity to the Java-Bali grid.

The plant is designed for dual firing using natural gas as the main fuel and high-speed diesel as back-up fuel. The plant will not only help to meet rapidly rising electricity demand in the Java-Bali grid, it will operate on natural gas, thus helping to reduce dependence on liquid fuel.

The 225 MW combined cycle unit consists of one block of combined cycle power plant multi-shaft unit comprising a GT 13E2 gas turbine, a heat recovery steam generator, a Comax steam turbine, two turbo generators, balance of plant and a high voltage switchyard.

While Alstom supplies the main power block of the plant, Marubeni supplies the main transformer, the switchyard, balance of plant, civil construction and M&E erection work.

JEL's engineering and procurement activities have already started since the beginning of this year, while the M&E work is scheduled to start by the first quarter of next year.

JEL's decades of expertise in power plant M&E work and the recent successful completion of the Tarahan project, also in Indonesia, have instilled confidence in Marubeni to award this contract.



Partial view of the existing Muara Tawar gas-fired combined cycle power plant.

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TJEL Appointed Contractor Of Thai Power Plant

Experience and dedication put the site team back on original schedule.

A multi-party consortium was awarded a contract on October 2006 to construct the Sime LCP power plant adjacent to the existing Laem Chabang 120 MW combined-cycle power plant for the primary purpose of boosting the electrical and thermal energy to the Laem Chabang Industrial Park near Chon Buri in Thailand.

The plant consists of a Frame 6B General Electric gas turbine and a Siemens steam turbine that, together with an associated heat recovery steam generator (HRSG) and auxiliaries, will form a combined cycle co-generation plant to generate a total electricity output of 60 MW.

The consortium of Sime Engineering

Sdn. Bhd. and Mitsui & Co. Power Systems Corporation is responsible for the basic design and supply of the main and balance-of-plant mechanical and electrical (M&E) equipment, with TJEL as the contractor responsible for the detailed engineering work on civil, piping, electrical and instrumentation design as well as the construction of the whole plant.

Right from the beginning, the project posed a challenge to us due to space constraint. Thus it was a challenge to manage the site with 450 workers working at the peak of construction together with heavy lifting cranes occupying the access area.

At the same time, both the mechanical and civil teams had to work in tandem to adhere to the project schedule.

Although the project started off slowly due to the challenges we encountered, nevertheless, we succeeded in putting the work on schedule.

When he visited the site recently, JEL Managing Director Osamu Abiko applauded the efforts of the team whose expertise and capabilities are once again recognised by the clients.



Overall view of Sime Laem Chabang Project in Thailand.

Kobe Steel Seeks JEL's Assistance In DRI Projects

The successful completion and commissioning of the Qatar plant and near completion of the Oman plant are testimonials of JEL's capabilities.

JEL secured its first contract for a direct reduced iron (DRI) project in Qatar from Kobe Steel Ltd, Japan, in 2005 and a second similar contract in Oman in 2006.

With the successful completion and commissioning of the Qatar plant in 2007 and the near completion of the Oman plant, Kobe Steel has requested JEL to assist in the construction of another DRI project in the region.

JEL, with its experience and successful performance recognised by Kobe Steel, can expect repeat orders for DRI projects in the near future.

The production of DRI, a basic raw material for making steel, is concentrated in a few countries in the Middle East and Latin America. One primary reason for this is that natural gas, the main fuel source for most DRI processes, is available in quantities in these two regions.



Overview of a typical DRI plant.

IT For Faster Interaction And Communication

Faster business decisions, reduced development cycles, shorter project times, faster time to market, quicker response times and improved customer responsiveness make us more competitive.

The Information Technology Department manages JEL's corporate network, e-mail, print, file and application systems, including the Job Costing System, Fully Integrated Budget and Cost Control System, JD Edwards and the Intranet.

It is led by Mr Vishal Gurung who emphasises that "IT will continuously shed its skin to provide a strong backbone for JEL to succeed in the current economic climate", adding that "we shall pro-actively reach our users to exceed their requirements and to promote the effective use of technology for the business".

With a new three-year IT plan in place, IT will be steering off to bridge the gap between people, processes and procedures into a tightly integrated technology structure.



The IT team (from left) Mr Saw Tin Naung Tun, Mr Samsulbahri bin Abas, Mr Vishal (HOD), Mr Ponnusamy Selvakumar and Mr Wan Kum Seng.

Transforming The Way Business Works

IT has adopted the Skype and Inperson Video Conferencing, both of which have effectively reduced travel time, increased work-flow efficiency, and increased team effectiveness.

These technologies, in addition to being eco-friendly, have enabled employees, partners, customers, suppliers, etc, to work together via real or non-real time communication, and share or exchange information, including documents and other types of content.

Individuals and teams need to constantly interact, communicate and share

knowledge in order to effectively do their jobs, whether in the main office, a satellite branch or remote site.

The ability of people to interact and communicate, regardless of their location, has a high impact on productivity and cost-effectiveness. For example, many businesses rely on audio, web and video conferencing to help employees to communicate quickly and

effectively with groups both internally and externally.

The result is faster business decisions, reduced development cycles, shorter project times, faster time to market, quicker response times and improved customer responsiveness, all of which make companies more competitive.

Skype@JEL

With the implementation of Skype VoIP communication via the Internet, the service is 24/7 while calling rates are lower than the traditional telephone connections. Staff can communicate with job sites anywhere and anytime so long as they have a computer with Skype application and an Internet connection. With Skype-to-Skype calls, the charges are free.

Since the beginning of June 2008 we have added more than 40 users in five countries on Skype.



"With Skype I can contact our project sites anytime, anywhere free," says Subramaniam Sekar of Civil Department.

JEL India Secures Work In Four Major Projects

Started in 2006 to procure materials and manpower, JELI has expanded its scope of activities to include a full range of engineering services.



"I am confident of our present team working on our projects in India," says Mr CC Chen, MD of JEL India.

JEL India, a wholly owned subsidiary of the JEL Group, started operations in India in 2006 with the objective of providing to IHI Corp and JEL services such as material procurement, labour dispatch and recruitment of engineers for overseas job sites.

With the current boom in the civil construction industry in India, JELI (previously known as Jeevitha Engineering Pvt Ltd) has secured and successfully executed several civil-based construction projects, including:

- Fabrication and erection of three diffusers for the Sujen combined cycle 3x335 MW power plant in Gujarat;
- Acting as sole inland procurement agency for IHI in the construction of Petronet LNG 3 and 4 tanks in Dahej; and
- Sourcing of spares for the equipment originating from India for the Tanjong Bin and Jimah Power projects in Malaysia.

In addition, JELI has also secured the following projects now currently in progress:

- Turnkey project contract with Acument Fastening Systems India Pvt Ltd signed

in February 2008. JELI will provide a full range of services, including securing government approvals, detailed engineering design services, procurement, fabrication, on-site erection, building construction, mechanical and electrical building services, road and landscaping services for its factory in Oragadam, Chennai. Construction of the main building, with all associated facilities, commenced in March 2008 and is expected to be completed by the end of October 2008.

- Fencing work at the processing zones of light engineering and other services for MARG Construction Ltd in the special economic zone at Seekinakupam. Under this contract, JELI provided materials and labour to fence the area of about 10,000 square metres. It was completed in July 2008.
- Construction of an apartment complex for Green Vistas Infrastructure Project in Kochi, Kerala. JELI will be involved

in the construction of two blocks of two basement floors and a 15-storey superstructure for each block, including the reinforced concrete structure, bricklaying and plastering and painting work. Begun in May 2008, the project is scheduled to be completed by October 2009.

- Supply and installation of 21 glass-type passenger boarding bridges for Delhi International Airport Terminal 3 for m/s ShinMaywa Industries Ltd. JELI will render local support and installation which commenced in September 2008 and will be completed in October 2009. The bridges will be fabricated by Thailand Jurong Engineering and shipped to India for installation.

With these experiences, JELI has plans to expand its activities with our traditional clients such as General Electric, Toshiba Plant Services Corporation, Marubeni Corporation and Mitsubishi Heavy Industries in their power projects in India.



(L to R)
Front row:
Mrs. Jayashree,
Mrs. Kalaimagal.

Back row:
Mr. Chandran,
Mr. Palani SP,
Mr. Saravanan M,
Mr. Karuppiyah,
Mr. Thiru,
Mr. Kannappan,
Mrs. AR Meena.

Inperson@JEL

Similarly, video conferencing will provide a more stable and graphical conduct of meetings in a virtual world. The main purpose is to conduct group meetings with project sites in a formal manner in a scheduled environment.

Currently we have Inperson in our offices of our associates and subsidiaries : Thai Jurong Engineering Limited, Song Da - Jurong Construction Co Ltd, Bahrain (SPC) & Amen Engineering International. Our Corporate Affairs Division is also equipped with the same setup. IT has two units for loan for conducting a virtual meeting.

At a conference ... more stable and graphical.



Great Food, Fun & Games At Staff Party

Everyone was looking forward to the Staff Party, and no one was disappointed. The food was good, the company was excellent and the entertainment was enjoyable.

Held on 1 August at The Chevrons in Boon Lay Way, the party was already in full swing with karaoke singing by those who had arrived earlier. But it was not until MD Osamu Abiko gave his welcoming speech that really got everyone going. We did not forget those who could not join us. Together with our Head of Corporate Affairs Division, Mr T J Khor, he made a video conference call to the civil construction team who were at the site office in Bahrain and spoke to Mr Sim Siang Huat, the site manager. Mr Sim even entertained us by singing us a song in Chinese which pushed the joyous atmosphere to greater height.

An international and Muslim buffet spread plus wine, beer and soft drinks awaited the hungry guests. Entertainment came in the

form of a very educational safety sketch put together by our JEL Safety Committee, a lively dance routine by our JEL dancers and another dance performance by Mr Andy Chan Chor Bong and Ms Norahasah Bte Kantan from our recreation team.

There were games involving very eager participants. Cheers, claps and whistles encouraged each and every one to enjoy to the fullest at the party.

The Lucky Draw saw 20 very happy winners receiving their prizes (the top prize was a \$500 Capitaland shopping vouchers) given away by our Chairman, Mr. Bob Tan.

The party ended with everyone joining in the rendition of the JEL song before going home for a good rest.



Education safety sketch put up by our JEL committee lead by Mr Yeo Yong Moh (centre), Section Head, EHS Department.



Dance performance by our JEL recreation committee.



Mr Niioka (in white shirt) trying out a new dance step.

A Recipe From Songda Jurong

Fresh Vietnamese Salad Rolls

Fresh Vietnamese salad rolls (goi guon) is salad wrapped in edible rice paper. Its aromatic herbs lend a refreshing taste and if you are looking for a tasty summer picnic dish, these rolls are perfect.

Ingredients (for 12 rolls)

- 500ml water, 1 spring onion
- 250gm lean pork
- 300gm fresh medium prawns
- 12 dried rice paper 20cm in diameter
- 1 small head butter lettuce
- 100gm dried rice vermicelli
- 1 baby cucumber, quartered and sliced
- 1 small carrot, grated
- 1 bunch coriander leaves, sliced
- 1 portion peanut dipping sauce

Preparation:

- Prepare the peanut dipping sauce
- Bring water and spring onion to a boil over medium heat in a saucepan; poach the pork for 7-10 minutes until cooked. Remove and set aside to cool. Slice the pork into thin strips.
- Bring the same pot of water to a boil again and poach the prawns for 1-2 minutes until pink. Remove and plunge into cool water. Peel, devein and half each prawn lengthwise.
- To make a spring roll, briefly dip a rice paper wrapper in a bowl of water until soft. Remove, place on a dry surface and make it smooth. Place a lettuce leaf onto the wrapper, closer to one edge. Top with some pork strips, rice vermicelli, cucumber and carrots. Fold the closest edge of the

wrapper over the filling, then fold in the sides and roll up halfway.

- Place 2 halves of a prawn, side by side, along the roll and top with coriander leaves. Continue to roll up tightly to complete the folding. Repeat until all the ingredients are used up.
- Arrange the spring rolls on a serving platter and serve with serving bowls of peanut sauce on the side and Bon Appetite

Fish Sauce Dip

Ingredients (yields 250ml)

- 2-3 finger-length chillies, deseeded and sliced
- 3 cloves garlic
- 50gm sugar
- 3 tablespoons freshly squeezed lime juice
- 1 tablespoon vinegar
- 3 tablespoons fish sauce
- 125ml water
- ½ teaspoon salt

Preparation:

Grind the chillies and garlic to a coarse paste in a mortar or blender, then combine with all the other ingredients and mix until the sugar is dissolved.

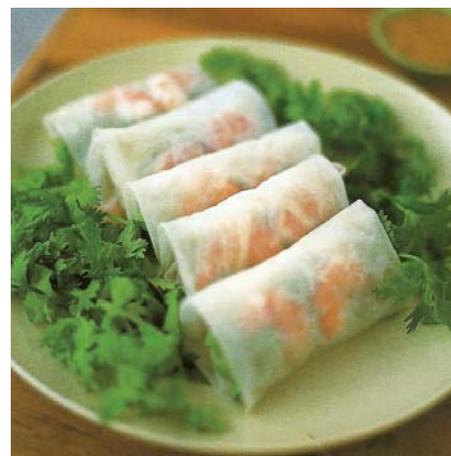
Peanut Dipping Sauce

Ingredients (yields 375ml)

- 185ml water
- 60ml hoisin sauce
- 1 tablespoon tamarind juice
- 120gm crunchy peanut butter

Preparation:

Combine all the ingredients in a bowl and mix until well blended.



Roasted Rice Powder

Ingredients (yields 100gm)

- 100gm uncooked rice grains

Preparation:

Preheat the oven to 1200C. Bake the rice in the oven, stirring from time to time, until the rice turns light brown. Do not overcook. Alternatively, dry-fry the rice in a skillet over a low heat for 10 minutes, stirring continuously, until the rice is fragrant and light brown. Grind the roasted rice grains to a powder in a blender.

Lucky Draw

Winners

The editorial board of JEL Bulletin congratulates the winners of the Lucky Draw Contest in the July 2008 issue of the publication. They will receive a T-shirt, courtesy of Long Xin Enterprise Pte Ltd.

Contest

We are giving away 20 thumb-drives for the Lucky Draw contest in this issue. Simply answer the three questions below and send your answers, together with your name and address to dewie@jel.com.sg or 25 Tanjong Kling Road, Singapore 628050. (Hint: answers can be found in this issue of the bulletin.)

The questions for the contest are :

1. Which of the associates and subsidiaries are now equipped with "Inperson"?

2. Why was the driven type of piling method abandoned?

3. Why is the DRI process of making steel widely used in the Middle East and Latin America?

Name: _____

NRIC No.: _____

Address: _____

Contact

Marketing inquiries, comments and feedback should be addressed to the Business Development Section at marketing@jel.com.sg
tel: 65 6265 3222 fax: 65 6265 9842



EDITORIAL TEAM: T. J. Khor, Tadanao Sato, K. Dewie, S. Ganesh and Wong Kai Pheng.

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