

# Dolphin

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## DELIVERY OF NOBLE SAM HARTLEY

NEW CONTRACTS SECURED

PHASE II NEW YARD  
DEVELOPMENTS

SEMBCORP MARINE WINS  
SHIPYARD OF THE YEAR AWARD

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# Delivery of Noble Sam Hartley

**Sembcorp Marine's subsidiary Jurong Shipyard successfully signed over the Noble Sam Hartley, a high-specification, harsh environment Friede & Goldman (F&G) JU3000N jack-up rig, to Noble Corporation on October 31, 2014.**

Noble Sam Hartley is the sixth turnkey unit built of the same design and specifications as five earlier F&G JU3000N units ordered by Noble Corporation.

The brainchild of Jurong Shipyard, Noble, and Friede & Goldman, the F&G JU3000N design has an enlarged hull for more operational benefits, including ergonomic and efficient accommodation layout, increased deck space and strategic placement of equipment for enhanced efficiency and safety during operations. The rig has operational capability in water depths of 400 feet and can drill to depths of 35,000 feet.

To further enhance the rig, Noble is upgrading the jack-up's fixation and leg systems in the shipyard which will provide the unit with greater operating capability in harsher environments.



◆ Celebrating the handover of the Noble Sam Hartley



◆ Toasting to the successful delivery of Noble Sam Hartley



Construction of the Noble Sam Hartley, a F&G JU3000N jack-up rig, at Jurong Shipyard



# Key Deliveries and Completions in 2014

Sembcorp Marine's operations continued to see quality and success with the completion and delivery of numerous projects across the Group's yards in 2014.

## January

**1** Delivery of **Noble Houston Colbert**, the third Friede & Goldman JU3000N design jack-up rig built by Jurong Shipyard for Noble Corporation.

**2** Delivered **Naga and Pelikan Wellhead Platforms** built by PT SMOE Indonesia for Premier Oil Natuna Sea.



## February

**3** Delivery of **West Linus**, a Gusto MSC CJ70-X150A design jack-up rig built by Jurong Shipyard for Seadrill's subsidiary, North Atlantic Drilling.

**4** Delivery of **Decus**, the second proprietary Pacific Class 400 design jack-up rig built by PPL Shipyard for Oro Negro.



## March

**5** Delivery of **Noble Sam Turner**, the fourth Friede & Goldman JU3000N design jack-up rig built by Jurong Shipyard for Noble Corporation.



## May

**6** Delivery of **Polar Marquis**, a seismic vessel upgraded by Sembawang Shipyard for GC Reiber Norway.

**7** Completion of the **Golden Eagle Living Quarters Platform** built by Sembmarine SLP for Nexen Petroleum.





## June

**8** Delivery of **Noble Tom Prosser**, the fifth Friede & Goldman JU3000N jack-up rig built by Jurong Shipyard for Noble Corporation.



**9** Delivery of **Perisai Pacific 101**, the first proprietary Pacific Class 400 design jack-up rig built by PPL Shipyard for Perisai Petroleum Teknologi.

**10** Completion of **Deep Venture** drillship upgrading by Sembawang Shipyard for Zarubezhneft Joint Stock Company.



## August

**11** Delivery of **Gagak Rimang**, an FSO conversion completed by Sembawang Shipyard for Mobil Cepu.

**12** Delivery of **Investigator**, a dynamic positioning research vessel contracted for construction by Teekay Shipping (Australia) to Sembawang Shipyard for the Commonwealth Scientific and Industrial Research Organisation (CSIRO).



## October

**13** Delivery of **Noble Sam Hartley**, the sixth Friede & Goldman JU3000N design jack-up rig built by Jurong Shipyard for Noble Corporation.

- Completion of the **Australia Pacific LNG Modules** built in PT SMOE Indonesia for ConocoPhillips, Origin Energy and Sinopec.



## November

**14** Completion of **Voyager of the Seas** revitalisation by Sembawang Shipyard for RCL Cruises.



## December

**15** Completion of **Impetus**, the third proprietary Pacific Class 400 design jack-up rig built by PPL Shipyard for Oro Negro.

**16** Delivery of **Ocean Apex**, a semi-submersible rig extensively upgraded by Jurong Shipyard for Diamond Offshore.



# US\$696M Libra FPSO Conversion Contract

**Jurong Shipyard, a wholly-owned subsidiary of Sembcorp Marine, has secured a US\$696 million conversion contract from OOGTK, a joint venture between Brazil's Odebrecht Oil & Gas and Teekay Offshore, in October 2014.**

The contract involves the conversion of the Navion Norvegia shuttle tanker to a floating, production, storage and offloading (FPSO) vessel that includes detailed engineering, procurement, fabrication, assembly, installation and integration of topside modules, installation of external turret, accommodation upgrading as well as extensive piping and electrical cabling works.

The FPSO will have the capacity to produce 50,000 barrels of oil per day and 4 million cubic metres of associated gas per day. Scheduled for completion in the third quarter of 2016, the FPSO will operate as an early well-test unit on the Libra field in the ultra-deepwater section of Brazil's Santos Basin.

Mr William Gu, General Manager, Offshore Division of Jurong Shipyard, said: "We are pleased that Odebrecht Oil & Gas and Teekay have chosen Jurong Shipyard as their strategic partner. We would like to thank Teekay and Odebrecht Oil & Gas for their trust and confidence in Jurong and our new state-of-the-art facilities and capabilities."

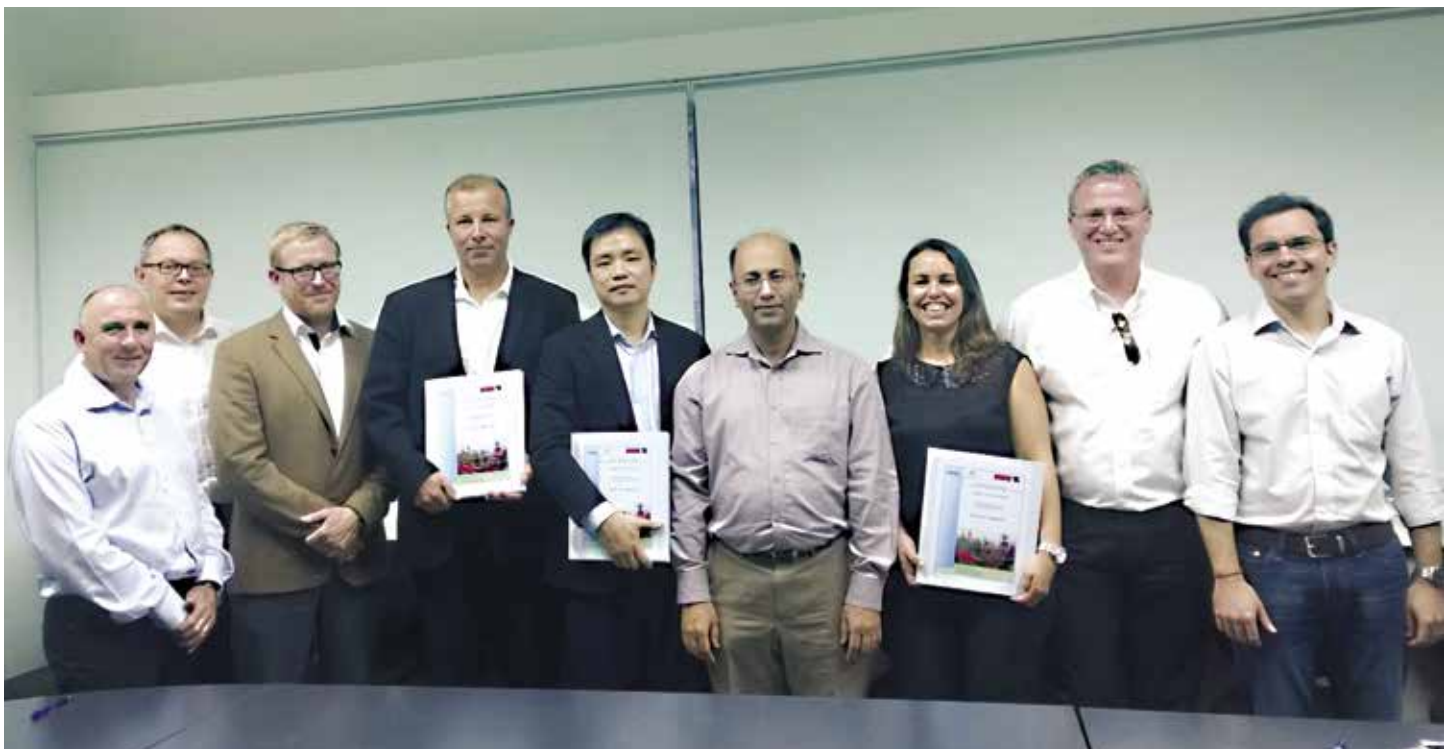
"Our proven track record in the operation of offshore oil & gas assets is key to the success of the project and we are happy to select Jurong Shipyard and the new Tuas facility as the choice partner and location for the job.

**Mr Jorge Luiz Mitidieri**  
Vice President  
Odebrecht Oil & Gas



We are happy to be working with both Odebrecht Oil & Gas and Jurong Shipyard on the Libra FPSO conversion project. In fact, this will be our second FPSO project for our joint venture with Odebrecht Oil & Gas which underlines the success of our partnership over the years.

**Mr Peter Evensen**  
President & CEO  
Teekay Offshore



◆ Mr Peter Lytzen (fourth from left), President & CEO of Teekay Petrojarl, Mr Jorge Luiz Mitidieri (second from right), Vice President of Odebrecht Oil & Gas, Mr William Gu (centre), Jurong Shipyard's General Manager of Offshore Division, and key stakeholders marking the contract signing of the Libra FPSO conversion project



## US\$240M Contract for BOT Lease

Sembcorp Marine's subsidiary PPL Shipyard secured a US\$240 million contract in October 2014 to build a high-specification jack-up rig for BOT Lease, with Japan Drilling as the project coordinator.

To be named Hakuryu 14, the rig will be built based on PPL Shipyard's proprietary Pacific Class 400 design. Scheduled for delivery in the fourth quarter of 2016, the rig will be capable of operating in 400 feet water depth and drilling high pressure and high temperature wells to depths of 35,000 feet.

The jack-up rig design features a two million pound drilling hook load capacity and the latest drilling equipment for improved drilling efficiencies along with offline handling features and simultaneous operations support. It will have full catering facilities and amenities with accommodation for 150 persons.

"We are honoured that BOT Lease, in collaboration with Japan Drilling, have once again chosen our latest proprietary Pacific Class 400 series jack-up rig design to be customised to their requirements. This is an endorsement of our design and our ability to deliver the rig safely, on time and within budget.

**Mr Wong Teck Cheong**  
**Managing Director**  
**PPL Shipyard**



◆ (From left) Mr Wong Teck Cheong, Managing Director of PPL Shipyard, Mr Toshiaki Arai, Managing Director of BOT Lease, and Mr Yuichiro Ichikawa, President and Representative Director of Japan Drilling, at the contract signing



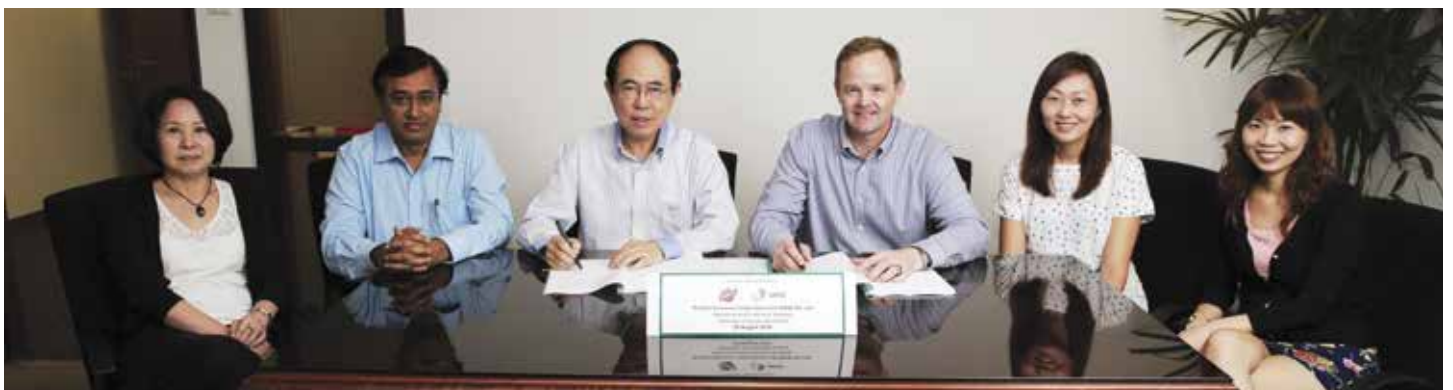
◆ Senior management of BOT Lease, Japan Drilling and PPL Shipyard toasting the success of a strong partnership

## US\$190M Contract with Bechtel

Sembcorp Marine's wholly-owned subsidiary SMOE has secured a contract with Bechtel for the fabrication of liquefied natural gas (LNG) processing modules for a resource project in Western Australia in September 2014.

Awarded by Bechtel, the contract estimated at US\$190 million entails the assembly of process and piperack modules for installation at an LNG facility for the Chevron-operated Wheatstone project. Construction of modules has commenced in November at SMOE's Batam yard in Indonesia.

Bechtel is one of the most respected engineering, project management and construction companies in the world having worked on more than 25,000 projects in 160 countries on all seven continents since its inception in 1898.



◆ Marking the successful contract signing between SMOE and Bechtel



# \$222M Offshore Contracts Secured

Sembcorp Marine's subsidiaries Sembmarine SLP and Jurong Shipyard have secured offshore energy related contracts valued at a combined \$222 million.

## Dudgeon Offshore Wind Farm Project

Sembmarine SLP has been awarded a contract to design and build a new generation offshore substation platform for the Dudgeon Offshore Wind Farm which is developed by Dudgeon Offshore Wind Limited, a joint venture between Norwegian energy firms Statkraft and Statoil.

The contract, granted by Siemens Transmission & Distribution, includes the design, engineering, procurement, project management and construction of the platform's jacket substructure and topside.

## FPSO Conversion for TEN Development

Jurong Shipyard has been contracted by MODEC Offshore Production Systems (Singapore), to complete the repair, life extension and conversion of a Very Large Crude Carrier (VLCC) into a Floating Production Storage and Offloading (FPSO) vessel as part of the TEN Development Project.

Scheduled for completion in the last quarter of 2015, the FPSO will have a production and treatment capacity of 80,000 barrels per day (bpd) of crude oil, 65,000 bpd of produced water, and

"We are delighted that Sembmarine SLP's close working relationship with Siemens has resulted in this award and we will continue to collaborate as a team with Siemens to ensure a successful outcome for the project as a whole.

Mr Paul Thomson  
Managing Director  
Sembmarine SLP

180 MMscfd of gas, with an onboard storage capacity of 1.7 million barrels. The facility will include for delivery 132,000 bpd of filtered, de-aerated seawater.

Operated by MODEC, on behalf of their client Tullow Ghana, the FPSO will host multiple subsea tiebacks from three reservoirs (Tweneboa, Enyenra, Ntomme) in the Deep Water Tano block off the coast of Ghana, West Africa.

# Establishment of New Subsidiaries

Sembcorp Marine's wholly-owned subsidiary Sembawang Shipyard has signed a shareholders agreement in September 2014 to establish three subsidiaries in Singapore. These new subsidiaries are: Semb-Eco Pte Ltd, an investment holding company, Semb-Eco R&D Pte Ltd, which specialises in research and development, and Semb-Eco Technology Pte Ltd, which focuses on the manufacturing and commercialisation of patents.

Sembawang Shipyard will hold 55% of the equity interest in Semb-Eco which in turn owns 100% of the equity interest in both Semb-Eco R&D and Semb-Eco Technology. The establishment of these three subsidiaries is for the Group to continue co-developing, manufacturing and selling green products with its strategic partner, Ecospec Global Technology, to the marine, offshore and onshore industries.

Aimed at fulfilling maritime and governmental regulatory requirements, these green products and systems include gas scrubbers for ships trading in the Emission Control Area (ECA) and onshore power plants as well as the Ballast Water Treatment System (BWTS), a product that will be required by some 45,000 ships trading worldwide.

Name of Company	Principal Activity
Semb-Eco Pte Ltd	Investment holding company
Semb-Eco R&D Pte Ltd	Research and development
Semb-Eco Technology Pte Ltd	Manufacturing and commercialisation of patents





# Strategic Acquisition of SSP Offshore

**Sembcorp Marine's wholly-owned subsidiary Jurong Shipyard signed a sales and purchase agreement with SSP Offshore to acquire all its business assets for US\$21 million in September 2014.**

A Houston-based company, SSP Offshore specialises in the design, engineering and delivery of innovative floating production and drilling solutions for the oil and gas industry. The key assets of SSP Offshore include its flagship SSP Floater technology – the next-generation circular hull form – and the company's entire portfolio of proprietary SSP (Satellite Services Platform) solutions, including the SSP Driller for deepwater drilling, the SSP Plus FPSO for production and storage, and the SSP Hub for logistic hub applications.

The acquisition of SSP Offshore assets is in line with the Group's strategy of diversifying its product offerings and expanding into new market segments to further grow its offshore and marine business. Renamed as Sembmarine SSP upon the acquisition, the company will continue with the new concept design and business development of its proprietary products for Sembcorp Marine.

“With this acquisition, Sembcorp Marine now owns the full range of SSP intellectual property and proprietary products of next-generation SSP floaters. These will further sharpen our technological capabilities and enable us to offer a suite of innovative solutions to cater to our customers' diverse operating requirements. With our strategic expansion into circular-based floaters, we are well-positioned to tap on new opportunities and expand our market share in the exploration & production, accommodation and logistics support segments within the offshore industry.

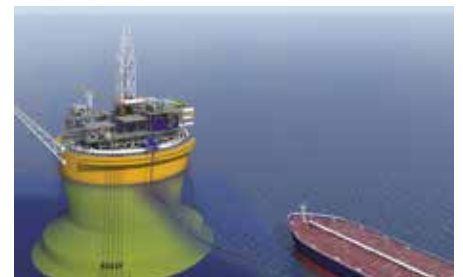
**Mr Wong Weng Sun**  
President & CEO  
Sembcorp Marine



◆ The SSP Driller is customisable for mid to ultra-deepwater drilling and is capable of increased variable deck load over existing technologies



◆ The SSP Hub is capable of integrated delivery of logistic support services and offshore supply base services through a single platform



◆ The SSP Plus FPSO is configured for harsh-environment operation and has the capacity to store 1.25 million barrels of oil and accommodate topside modules of more than 20,000MT

# Launching of Animus

**Animus, the fifth proprietary design Pacific Class 400 jack-up rig built by PPL Shipyard for Oro Negro, was successfully launched on November 7, 2014.**

Incorporating the latest drilling equipment for improved drilling efficiency and offline handling features, this jack-up unit is designed for operation in up to 400 feet water depth and up to a maximum drilling depth of 30,000 feet. Scheduled for delivery in July 2015, the rig is also equipped with increased accommodation capacity for 150 people, with full catering facilities.



◆ Key representatives of Oro Negro and PPL Shipyard at the launching of Animus

## Keel-Laying of Q7000

Sembcorp Marine's subsidiary Jurong Shipyard hosted a keel-laying ceremony for Helix Energy Solutions' light well intervention semi-submersible Q7000 on November 27, 2014, following the unit's strike steel earlier in June 2014.

The semi-submersible is being built based on a design jointly developed by Sembcorp Marine Technology and Helix. Featuring the latest technology, Q7000 is an efficient purpose-designed platform with capabilities to perform a wide variety of tasks, including conventional and extended top hole drilling, subsea construction, decommissioning well intervention, coiled tubing operations and twin ROV deployment. The Dynamic Positioning Class 3 unit is capable of deepwater operations worldwide, including the North Sea and West of Africa.



◆ The project teams celebrating a new construction milestone for Q7000

## Arpador Sets Sail for Brazil

Arpador – the first of seven drillships built based on the proprietary Jurong Espadon drillship design for Sete Brasil's Arpador Drilling B.V., Netherlands – sailed off from Singapore's Jurong Shipyard for the Group's Brazil subsidiary Estaleiro Jurong Aracruz in early October 2014 for further installation and commissioning works.



◆ The drillship Arpador sailing away onboard the Black Marlin to Sembcorp Marine's subsidiary yard Estaleiro Jurong Aracruz in Brazil.

The vessel represents the next generation of high-specification drillships with advanced capabilities for operational efficiency and ultra-deepwater operations worldwide. It is capable of operating at water depths of 10,000 ft and drilling to depths of 40,000 ft. The drillship will be equipped with state-of-the-art drilling facilities, a larger deck area with a 40-metre-wide main deck, efficient

deck arrangement and a large moon pool for enhanced drilling operations as well as Dynamic Positioning Class 3 capabilities, superior motion features and Azimuth thrusters for improved operability. It will also have accommodation facilities to house a crew of 180 personnel.



# Phase II New Yard Developments

Construction for Phase II of the Sembmarine Integrated Yard @ Tuas is in progress, with the enhanced facilities being built to increase Sembcorp Marine's modern docking capacity and further sharpen the Group's competitive edge in providing value-added cost-competitive solutions for its global customers.

Marine works at Phase II are scheduled for completion in the first quarter of 2017. These include construction of the finger pier, quays and wharves which will offer customers a total berthage of approximately 2km with maximum water depth ranging from -9m to -18m.

With robust demand for the four VLCC drydocks in Phase I, another three drydocks are planned to be built on the Phase II site. Two of these docks will each have a capacity of 150,000 dwt (dimensions 255m x 52m x -8m), while the third will be a dedicated offshore drydock (dimensions 255m x 110m x -12m) for offshore rig building, upgrades and repairs. The three new docks in Phase II will allow the group to service a broader spectrum of vessels ranging from mid sized to Suezmax commercial ships as well as to build offshore exploration and production units for its expanding list of reputable and established shipping and offshore customers.

Sembcorp Marine President & CEO Mr Wong Weng Sun, said: "We remain optimistic about the long-term outlook of the offshore and marine industry. With the new facilities in Phase II, the Group will be well placed to benefit from the anticipated growth in demand for modern docking capacity, and to deliver value-added and cost competitive solutions to better meet the needs of our growing list of global customers and alliance partners."



◆ Artist's impression of Phase I & II of the Sembmarine Integrated Yard @ Tuas



◆ 3D render of the steel fabrication facility at the Phase II development

## State-of-the-Art Steel Fabrication Facility

Sembcorp Marine has invested in a multi-functional steel fabrication facility which will significantly enhance automation and productivity in its offshore rig building, conversion of floating production and storage offloading vessels (FPSO), and ship repair businesses.

The \$222 million new steel fabrication facility, to be located at the Sembmarine Integrated Yard @ Tuas, will offer a streamlined, seamless and extensively automated production process from steel stock yard to final assembly and finishing.

Equipped with advanced equipment and machinery, the new facility will have a tonnage capacity of more than three times that of the Group's largest steel fabrication facility. Together with the optimal layout, overall efficiency is expected to increase more than double.

Scheduled for completion in 3Q2015, the steel fabrication facility is designed to be the central kitchen for steel fabrication for all three phases of the new Tuas yard.



# Revitalisation of Voyager of the Seas

Sembcorp Marine's subsidiary Sembawang Shipyard welcomed the 137,276 grt mega cruise ship Voyager of the Seas for extensive revitalisation on October 17, at the Sembmarine Integrated Yard @ Tuas, following the securing of the agreement with RCL Cruises, a member of FCC partner Royal Caribbean Cruise Line (RCCL) in March 2014.

The operation involved the introduction of many innovative and popular onboard amenities that have debuted on Royal Caribbean's Oasis-class ships. The Voyager of the Seas was upgraded to include Asia's first-at-sea features such as a 3D cinema, FlowRider surf simulator and Virtual Balconies in interior staterooms. New dining options, namely Izumi Japanese Cuisine, Giovanni's Table Italian Trattoria and Chops Grille Steakhouse were added together with the new Diamond Club for Crown and Anchor Society members.

Technical works included the installations of a 130 tonne aluminum and steel forward block, tender davits, 35 tonne extension and tender platforms, aluminum Izumi galley deckhouse, AC room as well as a new LED video wall. Simultaneous marine related works included full shaftline maintenance and slewing bearing renewal of 14 MW azipods and fixipod and full hydroblasting of the underwater hull to apply a new silicone coating.

This is the third revitalisation project that Sembcorp Marine has completed with RCCL following Rhapsody of the Seas in 2012 and Legend of the Seas in 2013. The successful revitalisation serves to further reinforce the Group's position as a world leader



◆ Voyager of the Seas pulling into the Tuas Yard for refurbishment



◆ Voyager of the Seas, Royal Caribbean Cruise Line's largest revitalisation project to date, in a drydock at the Sembmarine Integrated Yard @ Tuas

in cruise ship repairs. Following the completion of the upgrading works, the vessel sailed off for the next leg of her journey in mid November 2014.



◆ Project teams involved in the revitalisation of the cruise ship



## An Evening of Glamour & Celebration

To mark the Voyager of the Seas's revitalisation success, Sembcorp Marine's project teams and key stakeholders were invited to a celebration dinner hosted by RCCL onboard the cruise ship on November 6, 2014. The day also held special significance for the Group as it was the first anniversary since the opening of the Sembmarine Integrated Yard @ Tuas.

The evening commenced with a welcome address by Captain Charles Teige followed by a captivating musical performance by The Muse Band. Tokens of appreciation were then exchanged between Sembcorp Marine and RCCL before the memorable evening capped off with a sumptuous dinner where guests further reinforced ties and strengthened friendships.



◆ Guests arriving for the evening at the La Scala Theatre onboard the Voyager of the Seas



◆ VIPs from Sembcorp Marine and RCCL mingling before the night began



◆ A classy performance by The Muse Band



◆ Mr Simon Weir, RCCL's Associate Vice President, Head of Operations China, presenting a special memento to Mr Wong Weng Sun, President & CEO of Sembcorp Marine



◆ Mr Bill Baumgartner, RCCL's Senior Vice President, Marine Operations, receiving a token of appreciation from Mr Wong Weng Sun



◆ All smiles: (From left) Mr Simon Weir, Captain Charles Teige, Mr Wong Weng Sun and Mr Bill Baumgartner, together in celebration



◆ Mr Wong Weng Sun expressing his gratitude for Royal Caribbean's strong support and close partnership



◆ Guests enjoying dinner onboard the Voyager of the Seas



◆ Sharing viewpoints and strengthening ties



◆ Bonding over a pleasant meal



# Quality Repair Stopovers

The repair team from Jurong Shipyard at the Sembmarine Integrated Yard @ Tuas extended warm hospitality to visiting vessels during their stopovers for repairs and maintenance works between the months of September and December 2014.

**Marigold**, a 207,230 dwt bulk carrier measuring 309.00m x 50.00m x 25.70m, departed the Tuas new yard in September after completing a major overhaul operation. The scope of repairs for the Korea Line Corporation vessel included renewal of the engine room and its components, including damaged cables, main switches and control panels. The engine room was staged up, cleaned and painted, the power cables for all MSB panels in the ECR and control consoles in ECR were renewed, while the local control panels were cleaned and retightened. Prior to sail-away, the vessel's ECR flooring was renewed and recovery works were performed to repair and overhaul the air-conditioning, curtains, carpeting, furniture and ceiling of the living quarters.



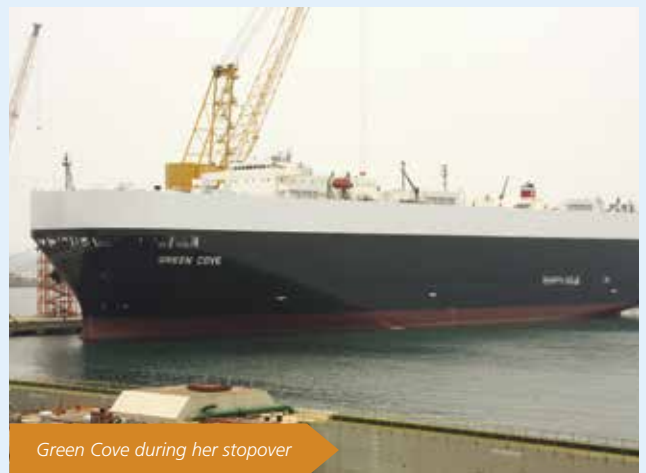
Marigold being thoroughly refurbished

**Golar Mazo**, a 762,100 dwt LNG vessel measuring 290.00m x 46.64m x 25.50m, sailed into the Tuas yard in September for a series of repairs. Managed by Golar Wilhelmsen Management, the vessel underwent routine underwater and engine room repairs as well as overhaul of her cargo pumps and spray pumps. After the repair completion, Golar Mazo departed the yard in the same month.



Drydock works in progress for Golar Mazo

**Green Cove**, a 199.90m x 32.26m x 34.55m vehicle carrier owned by International Shipholding Corporation, made a repair stopover at the Tuas yard in September. With a carrying capacity of close to 6,000 cars, the vessel underwent major works including repairs on her hull and cargo decks, overhaul of brake cylinder, renewal of hydraulic hose and door gasket, replacement of the main stern ramp and sub wire as well as channel chipping and derusting. A new enclosure for the ballast water treatment system unit was also installed before the vessel sailed off in the beginning of October.



Green Cove during her stopover

AP Moller's 43,239 dwt containership, **Maersk Brani**, called at the Tuas yard in October for maintenance and repairs. The vessel underwent overhauling of her bow thruster, installation of propeller boss cap fin, modification of fuel line system, hull washing, blasting and painting as well as marking of her vertical sides, topside and flatbottom. Other minor works included cell guide renewal and cleaning of the vessel's LT cooler. Following the rejuvenation, the 223.30m x 32.26m x 19.30m vessel sailed off for the next leg of her journey later in the same month.



Maersk Brani being revitalised

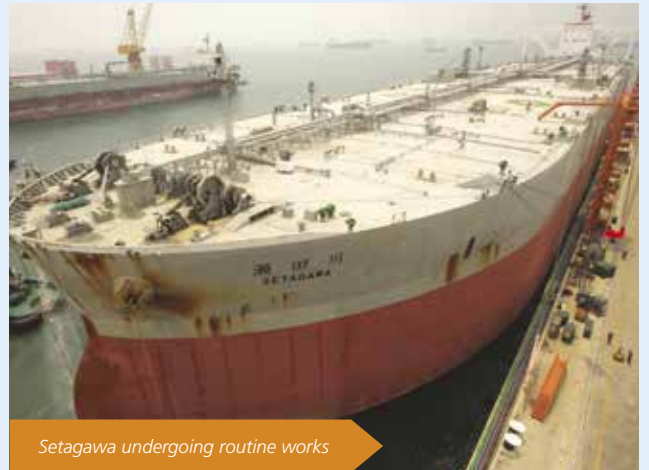


Jurong Shipyard's repair team welcomed Springfield Shipping Company's **Olympic Glory** in October for high pressure cleaning of her cargo holds and routine drydocking works including blasting, painting and sea chest cleaning. Measuring 235.00m x 32.29m x 20.40m, the 84,091 dwt bulk carrier sailed away from the yard at the end of the same month to continue her course.



*Olympic Glory ready for greater glory*

**Setagawa**, a 299,998 dwt crude oil tanker managed by "K" Line Ship Management, sailed into the Tuas yard for overhaul of her piston and liners, cleaning of cylinder covers, special surveying, zigzag modification and insulation tube replacement. The 333.00m x 60.00m vessel also underwent routine minor works before departing the yard at the end of October.



*Setagawa undergoing routine works*

Yamamaru Kisen's **Nord Tradition**, a 55,457 dwt bulk carrier, made a stopover in November for repairs and maintenance. The overhaul operation covered blasting works, auxiliary boiler cleaning, mountings overhaul, engine room piping renewal, waste oil incinerator refractory repairs and installation of a new MDO line. Other works carried out included hull painting as well as cleaning of her anchor chain range, HP wash and chain lockers. The scope of works also included sea chests cleaning and painting, propeller blades polishing and dye checking, stern tube seals renewal and sea valves overhaul. The vessel also took on tailshaft survey, life boat davits renewal and load testing of wire ropes and deck cranes. With the repair success, the 189.90m x 32.26m x 17.80m vessel set off later in the month for the next leg of her journey.



*Overhaul in progress for Nord Tradition*

Hapag-Lloyd's containership, **Yantian Express**, took time out in November to undergo an overhaul in the Tuas yard. The 320.58m x 42.88m x 24.50m vessel underwent refitting of her cargo hatch cover and pads, cleaning of auxiliary boiler, refractory repair, overhaul of M/E cylinder HT inlet and outlet B/V valves as well as pipe installation for LSMGO. The vessel also underwent minor works including repair of her ER vent flaps, cleaning of HFO tanks, overhaul of cargo hold fan E-motor and stream valves overhaul.

*Yantian Express in the midst of repair works*



**Ambiorix**, a cutter suction dredger, called at the Tuas yard in late November for a series of major repairs. Owned by Dredging Environmental & Marine Engineering, the 123.80m x 25.20m x 8.20m vessel underwent modification of her shaft bearings, upgrading of piping, renewal of motors and bilge line, welding of pad-eyes in the engine and pump rooms, hull steel repairs, modification of passage hatches, refitting of spud carrier and fender components as well as fabrication and installation of a new platform in the port side ladder winch room.

STATSCO's 150,249 dwt tanker, **Turris**, arrived at the integrated yard for repair works in November. Major rejuvenation works on the 228.50m x 32.20m x 19.60m vessel included renewal of the forward and aft stern tube seals, deck valve hydraulic line repair, overhaul of three AE turbochargers as well as cleaning of the hull, MSB, ESB and various tanks. Other works included hull anode renewal, cleaning and painting of the anchors and chain lockers, rudder clearances and air tests, renewal of sea and overboard valves, as well as overhaul and load tests of winches, motors and ladders. After completing the refurbishment, the vessel set off from the yard at the start of December.

**Kuroshio II**, a 12,566 dwt pipe-laying crane vessel operated by Nippon Steel & Sumikin Engineering, called at the yard in November for repairs. The 140.00m x 34.05m x 9.50m vessel underwent steelwork renewal, pitting build up repairs, renewal of wooden fender supports as well as hull blasting and painting before continuing her voyage the following month.

**Al Riffa**, a 145,534 dwt container vessel operated by the United Arab Shipping Company, docked at the Tuas yard in November for steel renewal works on both starboard and port sides as well as overhaul of damaged container post and handrails. Upon completion of the repairs, the 366.04m x 48.02m x 29.90m vessel sailed off with renewed energy in early December.

*Ambiorix being renewed*



*Turris in the midst of rejuvenation*



*Kuroshio II setting off after the repairs*



*Al Riffa undergoing renewal works*







# Rio Oil & Gas 2014

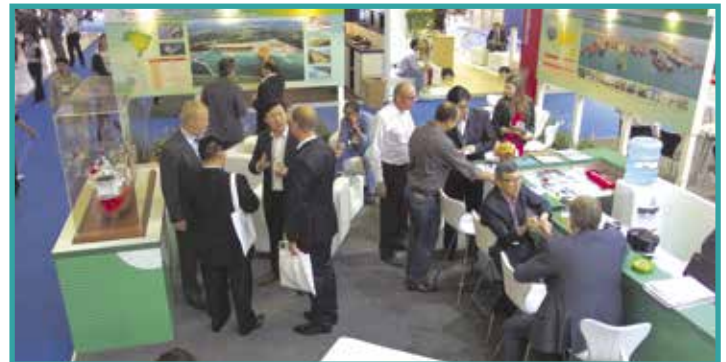
**Sembcorp Marine showcased its core capabilities and integrated facilities during its inaugural participation in the Rio Oil & Gas 2014 Expo and Conference held in Rio de Janeiro, Brazil, from September 15 to 18, 2014.**

The Group joined a delegation of Singapore companies organised by the Association of Singapore Marine Industries to exhibit under the Singapore Pavilion, which made its presence for the first time in Rio Oil & Gas. One of the biggest oil and gas industry events in the world, the 17th edition of the Brazil tradeshow at Riocentro saw a turnout of more than 47,000 visitors and over 1,000 exhibiting companies that included 72 debutants.

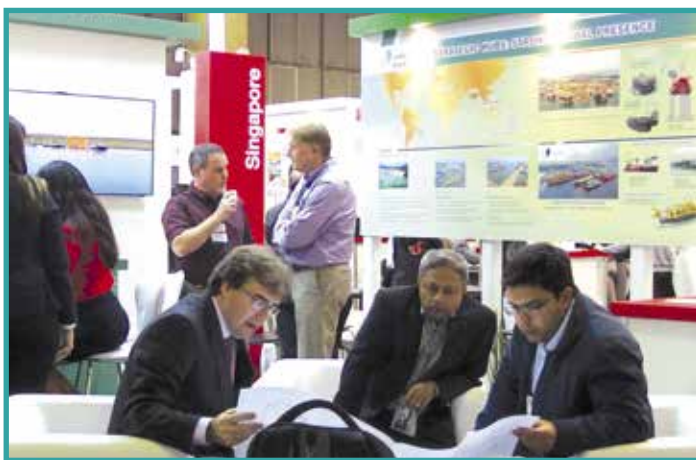
During the four days, representatives from the Group's subsidiaries Jurong Shipyard, Sembawang Shipyard and Estaleiro Jurong Aracruz took the opportunity to share insights into the Group's integrated marine and offshore engineering capabilities as well as build bonds and strengthen ties with clients and partners from Brazil and Latin America.



◆ Showcasing the Group's marine and offshore engineering capabilities in Brazil



◆ A good turnout at the Sembcorp Marine pavilion



◆ Lively discussions at the Sembcorp Marine booth



◆ Visitors learning more about the Group's Brazil yard Estaleiro Jurong Aracruz



◆ Sembcorp Marine representatives at the exhibition

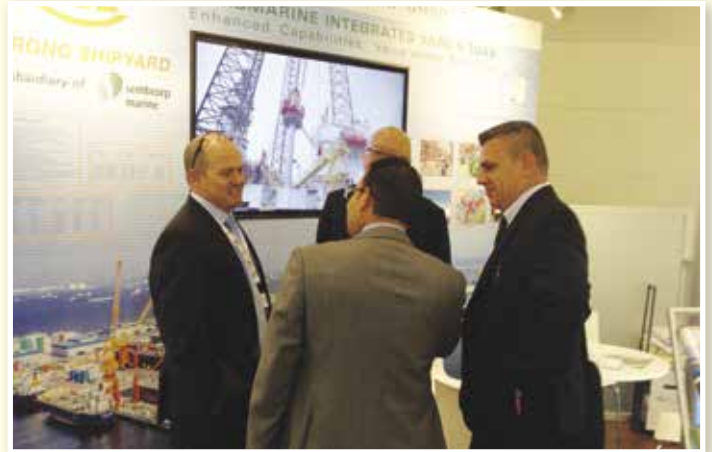


# SMM Hamburg 2014

Sembcorp Marine's subsidiaries Jurong Shipyard and Sembawang Shipyard participated in SMM Hamburg 2014, one of the world's leading maritime trade fairs, held in Germany from September 9 to 12.

Delegates from Sembcorp Marine's participating yards leveraged on the exhibition to showcase the Group's diverse capabilities and the new Sembmarine Integrated Yard @ Tuas, while reaching out to engage customers and partners in the region. The tradeshow also provided opportunities for representatives to gain fresh insights and stay abreast of new technologies, services and happenings in the industry.

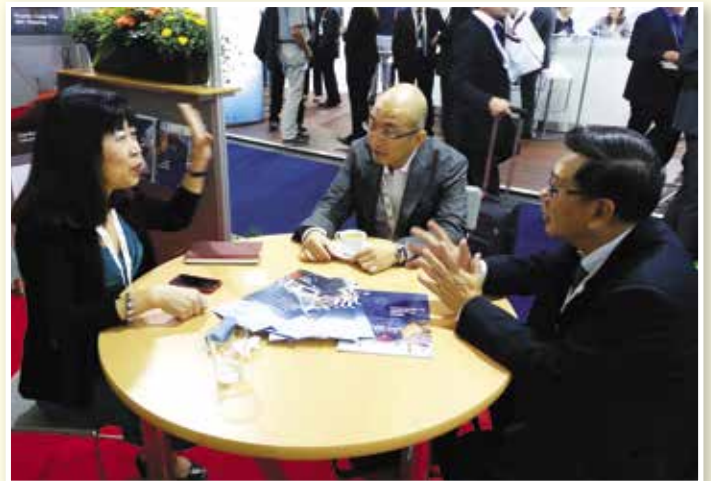
This year's SMM tradeshow, which was graced by Guest-of-Honour German Chancellor Dr Angela Merkel, drew a turnout of more than 50,000 industry visitors from 67 countries and the participation of about 2,100 exhibitors and 26 national pavilions.



◆ Networking in progress



◆ Responding to queries



◆ Exchanging ideas and insights



◆ Connecting with visitors



◆ Engaging in fruitful discussions



# Sembcorp Marine Bags Shipyard of the Year Award

Sembcorp Marine was accorded the Shipyard of the Year award at the Lloyd's List Asia Awards 2014 held at the Marina Bay Sands, Singapore, on October 30.

The annual awards dinner, well-attended by industry leaders and major players in the shipping and maritime industry, lauded Asia's best companies and individuals that demonstrated the highest level of excellence in the sector.

The Group's recognition was based on its proven track record in repair, specialised shipbuilding, ship conversion, rig building

and offshore engineering & construction as well as its key contributions to the maritime sector. Sembcorp Marine's strong competitive edge demonstrated through the launch of its state-of-the-art Sembmarine Integrated Yard @ Tuas and the Group's commitment towards workplace safety and health were also well recognised by the judges.



◆ Mr Wong Weng Sun, President & CEO of Sembcorp Marine, receiving the Shipyard of the Year Award from Mr Toshio Kurashiki, Operating Officer and Regional Manager of South Asia and Oceania of ClassNK, at the 2014 Lloyd's List Asia Awards



◆ Strong support from senior management and representatives of Sembcorp Marine





# SCM Innovation Carnival & Open House 2014

**Sembmarine Integrated Yard @ Tuas hosted its first Innovation Carnival & Open House on November 14 and 15, 2014 to promote and celebrate innovation within Sembcorp Marine.**

Held at the new yard's Learning Centre, the Innovation Carnival and Open House was officially launched by Guest-of-Honour Mr Hawazi Daipi, Senior Parliamentary Secretary, Ministry of Education and Ministry of Manpower, in the presence of the Group's management and employees.

Attended by more than 2,200 people, including staff from across the Group's subsidiaries, stakeholders and guests, the exhibition and carnival featured close to 30 booths showcasing award winning innovation projects developed by employees.

Invited guests from Jurong Health, 3M, Singapore Institute of Manufacturing Technology (SIMTech) and Ngee Ann Polytechnic also participated in the exhibition. As part of the carnival, there were game stalls and food carts for attendees to enjoy and bond over. Visitors also had the opportunity to take part in guided tours to gain a better understanding of the yard's integrated facilities.



◆ Mr Hawazi Daipi (left), Senior Parliamentary Secretary, Ministry of Education and Ministry of Manpower, with Mr Wong Weng Sun, President & CEO of Sembcorp Marine officially launching the Innovation Carnival & Open House



◆ Attendees enjoying the games at the carnival



◆ Participants explaining their innovations to Mr Hawazi and Mr Wong



◆ Carnival participants learning more about the innovations through fun activities



◆ Innovators giving Mr Ong Poh Kwee, Sembcorp Marine's Deputy President, a run through of their project



◆ Hands-on insights into the innovation projects



# Insightful Yard Tours

## Visits by Morgan Stanley, PPI and SMF

As part of the Morgan Stanley 13th Annual Asia Pacific Summit in November 2014, Sembcorp Marine hosted tours for two visiting groups – comprising corporate clients from Morgan Stanley as well as a delegation organised by the Singapore Maritime Foundation (SMF) for representatives from the Pacific Pension Institute (PPI) – at the Sembmarine Integrated Yard @ Tuas on November 11.

Through the presentations and tours, these visitors had the opportunity to acquire deeper knowledge of Sembcorp Marine's facilities and operations as well as first-hand insights into the Group's marine and offshore engineering capabilities.



◆ Guests from PPI and SMF touring the Sembmarine Integrated Yard @ Tuas



◆ Visitors from Morgan Stanley being briefed on the group's facilities and capabilities



◆ Acquiring first-hand insights during the tour

## Ministries Yard Tour

On November 20, 2014, a delegation of senior officials from the Ministry of Trade and Industry, Ministry of Manpower, Monetary Authority of Singapore and Economic Development Board visited the Sembmarine Integrated Yard @ Tuas to gain a better understanding of the innovative capabilities and advanced facilities within the yard. There was also active sharing of ideas and feedback between Sembcorp Marine's senior management and ministry officials during the course of the visit.



◆ Mr Wong Weng Sun, President & CEO of Sembcorp Marine, welcoming the ministry officials.



◆ Senior government officials and management of Sembcorp Marine marking a fruitful yard tour



# Singapore Global Firefighters and Paramedics Challenge

Sembcorp Marine's unwavering commitment towards workplace safety and health (WSH) was recognised when the Group's subsidiary Jurong Shipyard won top honours in the Singapore Civil Defence Force's (SCDF) Singapore Global Firefighters and Paramedics Challenge (SGFPC), held on September 12 and 13, 2014.

The two participating Company Emergency Response Teams (CERTs) displayed high levels of competence with Jurong Shipyard's Team 1 emerging champions and Team 2 earning a sixth-positioned finish, following a gruelling two-day competition at the Singapore Expo. To prepare themselves, the Jurong Shipyard CERTs underwent weekly in-house training for approximately a month by putting themselves through intense conditioning, technical and speed training as well as practising on a mock race circuit.



◆ The champion team from Jurong Shipyard celebrating the achievement

A total of 22 teams from 15 different companies in various fields took part in the challenge which required competitors to display speed in donning Personal Protective Equipment (PPE), efficiency in maneuvering within confined spaces and firefighting skills.



◆ The challengers from Jurong Shipyard pushing hard to excel in the competition

## Anti-Bribery Training Sessions

As part of ongoing initiatives to ensure high standards of business ethics and integrity, Sembcorp Marine held several training sessions on anti-bribery compliance and enterprise risk management in October and December 2014.

These workshops were effective in reaching out and educating employees on anti-bribery laws and regulations as well as the Group's corporate governance principles and policies. To ensure fresh recruits are aware of Sembcorp Marine's zero-tolerance approach towards bribery and corruption, details about the Group's risk governance framework and internal controls, including whistle blowing policy, are also clearly communicated during orientation programmes for new employees.



◆ Strong turnout at the anti-bribery training sessions



◆ Training sessions to educate employees on Sembcorp Marine's corporate governance and anti-bribery policies





# ASMI 17<sup>th</sup> WSH Innovation Convention

Demonstrating Sembcorp Marine's continuous commitment towards workplace safety and health (WSH) improvements, various teams from the Group's yards chalked up four awards at the 17th annual Association of Singapore Marine Industries (ASMI) WSH Innovation Convention held on September 24, 2014.

Organised by ASMI and supported by the national WSH Council, the WSH Innovation Convention provided an opportunity for the qualifying teams to showcase their outstanding projects to the more than 200 attendees from shipyards and marine companies in Singapore.


## Winning Innovations from Sembcorp Marine

**Gold**






**Ostium**  
Developed by: **Jurong Shipyard (Five Stars)**

- Facilitates smooth transferring of grit from skid to hopper cover
- Eliminates work-at-height activity




**Silver**

**Little Hercules**  
Developed by: **Jurong SML (Shore Link)**

- Enables lifting and shifting of side blocks with improved propeller shaft removal and refit work
- Minimises the risk of hand, finger and back injuries



**Silver**






**The Transporter**  
Developed by: **Jurong Shipyard (Alpha)**

- Enables transporting, installation and mounting of weather-tight door with greater safety and efficiency
- Eliminates the application of hot works



**Bronze**

**PropNut Turn-minator**  
Developed by: **Sembawang Shipyard (The Nutters)**

- Increases efficiency of nut removal process
- Eliminates the risk of falling from heights



# SCM Futsal Tournament

Soccer enthusiasts from 20 teams across Sembcorp Marine's subsidiaries came together at Golazo Jurong West to vie for top honours in the SCM Futsal Tournament 2014 on December 6.

The teams competed valiantly during the play-offs and the hard-fought final saw PPL Arriwaddy emerging as the eventual tournament champions, with SMOE Titans and SSPL Yangon Lions coming in as first and second runners-up respectively.



◆ PPL Arriwaddy – the tournament champions



◆ SMOE Titans –first runners-up



◆ SSPL Yangon Lions – second runners-up

# SchoolBAG 2014

Sembcorp Marine marked another year of helping financially underprivileged students in the community through its School Book Assistance Grant (SchoolBAG) programme, with grants of \$266,600 given to 1,298 beneficiaries from 85 schools in 2014. Now in its 14th year, the SchoolBAG programme has contributed more than \$3.2 million in grants to over 15,000 student beneficiaries since its inception in 2001.



◆ Recipients of the SchoolBAG grants with Guest-of-Honour Mr Gan Kim Yong, Minister for Health, and Mr Hawazi Daipi, Senior Parliamentary Secretary, Ministry of Education and Ministry of Manpower, with representatives from the Ministry of Education and Sembcorp Marine.

Through the SchoolBAG scheme, the Group aims to help lighten the financial burden of low-income families by subsidising their children's educational expenses. Student recipients can use the SchoolBAG grants to purchase basic school supplies such as school textbooks, uniforms and stationery items, as well as fund enrichment programmes to add to their holistic development.

The SchoolBAG scheme is one of several initiatives under Sembcorp Marine's Corporate Social Responsibility Programme and is open to Primary, Secondary as well as Junior College students from financially disadvantaged families. With the strong support of the Ministry of Education and schools, the broadening of the SchoolBAG programme over the last 14 years has seen recipient numbers and grant amounts double since the start of the scheme.

This year's SchoolBAG grants were given out to student representatives from the participating schools during a presentation ceremony held on October 10, 2014 at Bukit View Primary School, which was graced by Guest-of-Honour Mr Gan Kim Yong, Minister for Health, and Mr Hawazi Daipi, Senior Parliamentary Secretary, Ministry of Education and Ministry of Manpower.

In his speech, Mr Gan commended principals, teachers and partners of the community for their support, and encouraged them to "continue to work together to support, nurture and empower students" to reach their goals and achieve their dreams. He also lauded Sembcorp Marine for initiating the SchoolBAG programme as part of its corporate social responsibility initiative, the Group's efforts in caring for the less privileged in the community and for their "selfless support in making a difference to the lives of our students".

Mr Ong Poh Kwee, Deputy President of Sembcorp Marine, said in his speech that the SchoolBAG programme reflects the Group's "steadfast commitment towards Community Responsibility". He added that through the scheme, the Group seeks to bring about beneficial change to society and improve the lives of students and their families. Mr Ong also expressed his appreciation to the principals, teachers and staff from the participating schools for their dedication to this cause.



◆ A token of appreciation for Sembcorp Marine



◆ Mr Gan Kim Yong speaking with one of the inspiring student recipients, together with Mr Ong Poh Kwee (far left), Sembcorp Marine's Deputy President, and Mr Chua San Lye (far right), Sembcorp Marine's Director of Group Human Resource.