



GRANDWELD

WAVES

Newsletter: Issue 3 - July 2010

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26-28 October 2010



Latest News

**12 NEW SHIPS BUILT BY
GRANDWELD DURING
2010**

NEW MUSATAHA AGREEMENT WITH DRYDOCKS WORLD DUBAI FOR THE CONSTRUCTION OF A NEW FACILITY IN DMC, COMPLETION DATE : 4TH QUARTER 2011

NEW 175FT FSIV DEVELOPED FOR HIGH PAYLOAD & HIGH SPEED

OUR ENGINEERS TRAINED TO COMPUTATIONAL FLUID DYNAMICS SOFTWARE FOR OPTIMIZATION OF NEW AND EXISTING DESIGNS

Message from the General Manager



Jamal Abki
General Manager

Shipbuilding and marine markets remain under pressure. Low demand, more competition and tight financial market is adding to the challenge. We, at Grandweld, had to adapt and adjust efficiently to the new markets. It is something that we have done in the past, as we have seen difficult times come and go during the past 30 years.

Challenging times and the need to adapt require hard work and extra effort from everyone; but they also derive positive initiatives; and as in the past, Grandweld emerges stronger. I list some of the advantages that we have been able to achieve for Grandweld and its Customers during the past few months:

- Improving benchmarks and competitive edge through micro planning and cross utilization of workforce.
- Improving optimization of our products with new design development. On crew vessels we achieved more speed and more deadweight for the same horsepower.
- Improved delivery time by 25%; now we can deliver FSIV up to 175 ft. in 8 months.
- Last but not the least, more focus on Customer satisfaction with increased attention to Customer warranty claims and after sales support.

We will continue to develop new designs and build highly optimized and efficient offshore vessels so that our Customers can stay ahead, which will sustain our strength even at the most difficult of times.

What's Inside

- Shipbuilding : The Diving Support Vessel, a new milestone in our Success Story
- Aluminium shipbuilding : New 41M Crewboats make a splash during sea trials
- Ship repair : The Putford Saviour Project, a demonstration of our expertise
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The Diving Support Vessel, a new milestone in our Success Story



DSV Specifications

Vessel Type	: Diving Maintenance Support Vessel
Owner	: ADNOC
Class	: DNV
Length Overall	: 55.3M
Breadth (moulded)	: 16.0M
Depth (at midship)	: 5.5M
Draft, Loaded	: 4.5M
Hull	: Steel
Speed	: 12.5 Knots
Deck Crane	: 70 tons @ 14M
Main Engine	: 2 x WARTSILA 8L20, 1450kW
Output / RPM	: 1000
Generator Sets	: 4 x 420 kW
Crew Accommodation	: 8
Offshore Personnel	: 36
Accommodation	
Fire Fighting	: 1200 Cm/hr @ 120m range
Rescue Boat	: 2 x 6 persons
Freezer / Cold Room	: 10m3

Grandweld proudly moves forward towards yet another milestone with the construction of a DNV classed Diving and Maintenance Support Vessel, type VS 550 DMSV, the first of its kind built for Abu Dhabi National Oil Company (ADNOC). Modern in her look and using state of the art equipment, this vessel is expected to satisfy lot of potential clients.

The vessel is designed by WSD and model tested to optimum performance as a diving support vessel with dynamic positioning capability for OPCO Oilfield operations.

The vessel has a total length of 55.3m, can easily do 12.5 knots with two azimuth thrusters powered by Wartsila engines of 1450 kW each. Tunnel thruster of 300 kW is provided at the forward end of the vessel for dynamic positioning and maneuverability. The Electrical power requirement is met by four main generator sets running with an output of 420 kW at a voltage of 400V in addition to an emergency generator of 150 kW.

The DSV is equipped also with an offshore crane rated 70T @ 14m positioned at the aft of the vessel for handling Dead-weight Anchors, Mooring Buoys and SBM hoses. It has more-over a clear work deck of 350m² with a capacity of five tons per square meter supported with stern roller, side rollers and tugger winch for effortless anchor and hose handling.

The vessel's accommodation makes provision for 36 persons in 19 cabins and a hospital according to the regulations. There are two self-propelled lifeboats for rescue and diving operation. She is capable of external fire-fighting with 2 nos. Fire monitors of capacity of 1200 m³/h of water, 45 m throw height and 120 m range of monitor jets.

Finally, the vessel is equipped for diving operations with full-fledged diving equipment for underwater and surface maintenance / inspection of subsea pipelines and offshore structures.



Hull construction of the DSV under progress



New 41M Crewboats make a splash during sea trials

The latest generation of 41m Crewboat designed and built by Grandweld's Aluminium Shipbuilding Division has outperformed expectations by over 2 knots, achieving 26.25 knots in sea trials.

Extensive re-design and use of latest technology for the underwater hydrodynamics, high strength/low weight structure and other extensive optimizations all contributed to this breakthrough in performance.

Grandweld General Manager, Mr. Jamal Abki said, "We have already had excellent feed back from more clients wishing to purchase this vessel. It has made all the hard work and development well worth the effort."

The first of the new vessels delivered were built for Humaid Badir Marine Shipping Establishment and Al Mataf Shipping Establishment, with more vessels due for delivery later this year. In total, Grandweld's Aluminium Division currently has seven new series 41m on its order books.

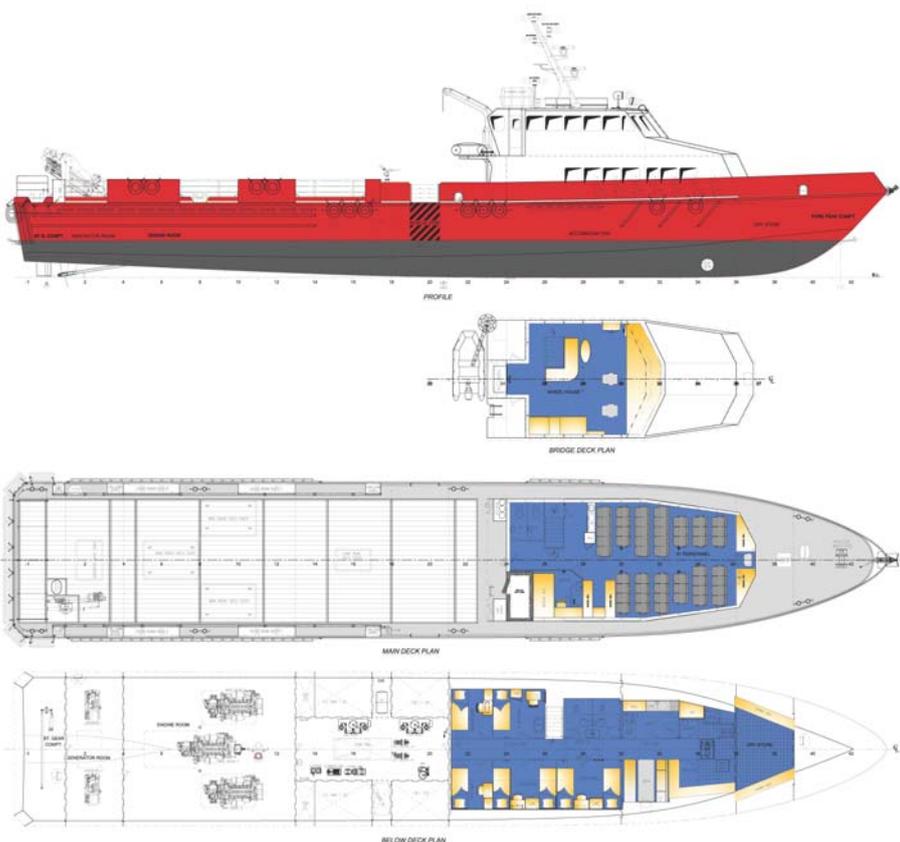
The success of the 41m vessels has been celebrated in conjunction with the successful early completion of a new 21.3m crewboat for Globe Marine.



41m Crewboat built for Humaid Badir Marine Shipping Establishment



21.3m Crewboat built for Globe Marine



General Arrangement of 41m Crewboat

41m Specifications

Vessel Type	: CREW BOAT
Owner	: HUMAID BADIR
Class	: BV
Length Overall	: 41m
Breadth (moulded)	: 7.3m
Depth (at midship)	: 3.5m
Draft, Loaded	: 1.75m
Hull	: Aluminium
Maximum Speed	: 26 Knots
Cruising Speed	: 24 Knots
Deck Crane	: 2 tons @ 6m
Main Engine	: 3 x Caterpillar C 32 ACERT HD
Engine Power	: 3 x 1450 BHP @ 2300RPM
Generator Sets	: 2 x Caterpillar C4.4
Bow Thruster	: 1 x 75HP @ 1500RPM
Crew Accommodation	: 8 Persons
Offshore Personnel Accommodation	: 51 seating capacity
Fire Fighting	: 600m ³ /hr
Rescue Boat	: 6 man capacity
Freezer / Cold Room	: 2.5 m ³ capacity

The Putford Saviour Project, a demonstration of our expertise

Conversion of Putford Saviour AHTS vessel to Safety Standby vessel at North Sea was a prestigious project undertaken at Dubai Maritime City (DMC) by Grandweld during the period March to May 2010.

The Challenging part of the project was to meet Maritime Coast guard Agency (MCA-UK) stringent regulations to North Sea conditions with certified materials and equipments.

Grandweld procurement team had done a thorough professional job on overseas supply of equipments like hot water boiler, calorifiers, pumps, quick closing valves and actuators, B15 ceiling and paneling, A60 floor and B15 doors that were sourced from Europe and delivered in record time.

The project's team was up to the task in facing the challenges right from the initial dry-docking stage until the completion of the project which included a large volume of additional jobs done within the same time frame: individual targets were given to enable the project to meet the completion time and to satisfy the owner's requirements.

Salient features of the project:

1. Conversion of central air conditioning to North Sea weather conditions;
 - Hot water heating coils for central air conditioning units
 - Boilers and calorifiers for domestic water heating
2. Added new steel module (60 tons) to accommodate safety standby requirements including joinery outfittings and modifications on deck;
 - Medical treatment room and recovery room for 20 persons
 - Reception and seating area (50 persons)
 - Toilets and showers area (10 nos each) and pipeline systems
 - Morgue, deck store and emergency genset
3. Install davits with rescue boats, crane including hydraulic power pacs and piping.
4. Removals of 50 tons of equipments from the vessel which included towing winch and accessories and modifications to existing pipeline systems.



Davit and crane installed on top of new module deck



Reception area of new module



Medical treatment room



Boiler installation inside engine room

Profile & Interview

Nandan Sankunni, 62 years old Supervisor Machine Shop Department

After an experience of 11 years as a Machinist in Allbwardy Marine Engineering, I joined Grandweld in 1991 as a Leadman in the Machine Shop Department, a position that I occupied for 2 years. Then I was promoted to Foreman, Senior Foreman and Supervisor since 2007 reporting to the Operations Manager.

As a Supervisor, I am responsible for:

1. Planning and distributing of manpower for respective ship repair & shipbuilding jobs to ensure success of achieving work plan on schedule.
2. Executing any emergency jobs on top priority.
3. Inspecting and finalizing the scope of work in consultation with Ship Owners / Class Surveyors for tail shaft, propellers, rudder stock, marine bearing, etc.
4. Keeping the machines and tools in the machine shop in good condition and carrying out regular maintenance of machine tools.
5. Submitting Daily time Sheet & Report and sending them to Costing department.

Managing a team of 60 people, my daily challenges are:

- To prevent unsafe acts and unsafe conditions within the Machine Shop by regular awareness for the team in coordination with the Safety Department.
- To conciliate the class surveyors rules with the clients requirements, which is not always obvious, for the satisfaction of the both parties.

The main principle that built my carrier success is my tolerance of the others and their ideas: any new idea or suggestion coming from my team is welcomed and taken into consideration for the improvement of our work processes in the Machine Shop.

For the juniors, I can advise them to maximize their learning from the field. Technical background got from school is good but not enough and needs to be supported by a daily practice and a strong field experience.

Mr. Nandan is reputed in Grandweld for his technical expertise, his acumen but also his high communication skills allowing him to understand a multinational team not always comfortable with English language.



Our employee's needs at the top!

In order to offer better and more efficient service to our labour force, Grandweld HR Department has introduced the HR Help Desk.

The main goal of this initiative is to enhance the communication with our employees and to handle their requests and complaints in a faster and efficient way. For this purpose, an experienced employee was designated to be the main contact with the time and the experience to handle and solve the employee's enquiries.

Mr. MICHAEL D' MELLO, who is also known as Clyde, is handling since the beginning of this year, the help desk which is located next to the time office. The help desk is the place to submit any application, request (like vacation request, passport copy, photos, passes, etc), or complaint as well as to receive the required feedback.

By this initiative, Grandweld intends to increase its **Internal Service Quality** following strongly the principle that organizations attempting to deliver service quality to their external customers must begin by serving first the needs of their internal customers.



**We welcome any comments, news, information or personal contributions to:
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