



**SAROST**  
 Quarterly  
 Newsletter

**3<sup>rd</sup> Quarterly  
 2013**

**The Jack up Rig JAWHARA05 and the well head Platform « WHP » have been transported from Galveston port Texas to GEMAK shipyard in Turkey.**

**WE LISTEN TO YOU, WE PERFORM FOR YOU, WE EVOLVE WITH YOU**

SAROST have organized and managed the Jack up Rig JAWHARA 05 and Jacket transportation from the port of Galveston Texas, USA to the shipyard of GEMAK in Tuzla, Turkey.

A very important logistics operation operated by the OPFM "Offshore and Facilities Management" SAROST division. On July 30, the Jack up Rig JAWHARA 05 and Jacket, were loaded aboard a semi-submersible vessel specialized in heavy transport to reach in 23 days later the GEMAK shipyard in Tuzla.



*The Jack up Rig and the Jacket, on the semi-submersible*

**A total mass of 7600 tons with a height of over 100 meters, have crossed the**

**Atlantic and the Mediterranean Sea without incident.**

The operation of loading and transport of the Rig and Jacket has required a perfect logistics coordination of all specific expertise in loading offshore structures



**Unloading in Turkey using air bags floating system**

The team in charge had to deal with many challenges but thanks to the seriousness and professionalism of SAROST staff with the support of marine engineering offices, they succeeded to overcome such challenges added to that, the cooperation

Departure of the rig JAWHARA 05 and the Jacket from GALVESTON

of towing company, transport barge, and specialized companies



We were able to meet these challenges. All loading operation of Jack up Rig JAWHARA 05 and Jacket was conducted under the supervision of a "marine warrantee surveyor" delegated by SAROST.



### Reconversion of Jack up RIG into Mobile Offshore Drilling & Production Unit MODPU

TUZLA shipyard, Turquie.

The repair and conversion of Jack up Rig JAWHARA 05 to MODPU are currently managed by SAROST in the GEMAK shipyard.

SAROST is responsible for carrying out the development of the oil field Halk El Menzel for the benefit of the operating oil company TOPIC. SAROST is in charge of engineering work and restoration of all the units required for the development of the oil field.



Unloading the rig JAWHARA 05 and the Jacket in TUZLA



### SAROST also manages the engineering and manufacturing work of the crude oil processing unit

The conversion of the jackup JAWHARA 05 consist essentially in integrating the process unit into the existing structure and to ensure that the unit is capable of both drilling activity and processing the oil produced. The engineering and manufacturing of the processes equipment is carried out by a well known company based in Abu Dhabi and the integration engineering work was assigned to an engineering firm based in Italy.

SAROST is responsible of the exploitation and installation of Halk El Menzel oil field in Hammamet offshore

SAROST provides the necessary logistics for the exploitation of the oil field.

### Rehabilitation of the floating storage unit FSO THAPSUS

The floating storage unit FSO THAPSUS (ex Karratha Spirit) 765.000bbls, Class BV, acquired by SAROST for the development of its activities, has been completely repaired by SAROST in the CHENGXI shipyard; it is currently moored offshore Sfax.



storage floating unit FSO THAPSUS

SAROST is in charge of all engineering work and reconversion of the floating storage unit FSO THAPSUS.

## Ingénierie marine et Géosciences

### Environmental Survey for the OMMP - 2013

The Marine Engineering and Geosciences Division of SAROST (MED) has accomplished the Environmental monitoring of the dumping sites of the dredged material from the commercial harbors of La Goulette-Radès, Sfax and Gabès for the year of 2013.

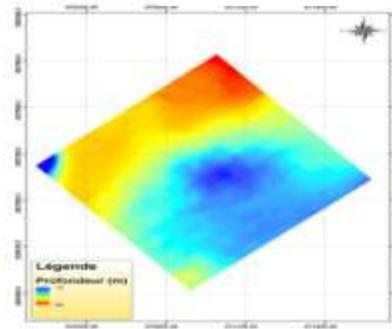
The aim of this monitoring is to assess the stability of these sites on the physical level and the degree of regeneration of the chemical and biological parameters.

The MED team has collected the bathymetric data using a Multibeam Echosounder and performed the sediment sampling using the Van Veen Grab.

The bathymetric data were used to quantify changes in the volume of the deposit from the previous year by using post-processing software (QINSy and ArcGIS 10.0). The sediment samples were analyzed in the laboratory in order to quantify the ecological status of different dumping sites..



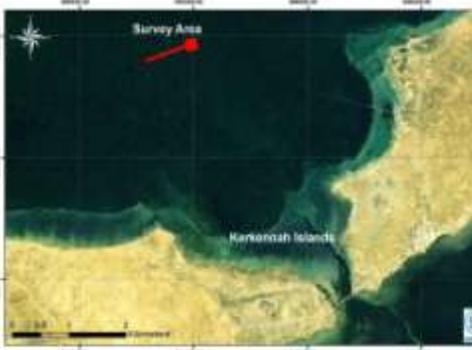
Location of survey sites off the commercial Harbors of the OMMP



Bathymetric map of the dumping site of Sfax (© SAROST – Sfax site, May-2013)

## Marine Engineering and Geosciences Division

### bathymetric Survey for the benefit of TPS.



Location of the survey area

The Marine Engineering and Geosciences Division of SAROST carried out a bathymetric survey in the West of Kerkennah Islands for the Thyna Petroleum Services Company (TPS). The campaign comes as part of the preliminary field investigations necessary to determine the future pipeline route that will connect the wells Cercina #7 to Cercina # 9.

**The bathymetric survey was performed using a Multibeam echosounder coupled with an inertial measurement unit and a differential GPS.**

The bathymetric data obtained are with a very high resolution (1 point every 10cm) and a high accuracy (5 cm). After the data post-processing, a Digital Terrain Model of the area is designed to ensure the optimal route of the future pipeline, avoiding the irregularities of the seabed.

## INTERNATIONAL ACTIVITIES

### SUBMARINE DIVING Libya offshore

The Subaquatic Works & Marine Services Division carried out the underwater inspection for the Class renewal of the FPSO Farwah in Al Jurf field offshore Libya. During this operation our divers performed the change of the anodes and the replacement of the hull valves while our ROV Tiger performed the SBM's chains Inspection.



### SUBMARINE DIVING

#### Intervention in Miskar wellhead

On July 2013, our ROV team was felicitated by BGTL for the successful operation performed on the well head of Miskar platform which allowed the resume of the gas production in the field.

As a funny action, the ROV team adapted a plastic brush to the manipulator arm in order to proceed for a soft cleaning on the well head valve indicator gage!!!



## Purchase of a new logistics base in Monastir.

SAROST recently acquired a logistics base in the Parc of industrial activities of Monastir, strategically located 10 minutes from the Port of Sousse and 5 minutes from the Monastir Airport.

### SAROST manages 07 logistics bases for the benefit of Oil & Gas and large Industries

This base is destined to meet the needs of oil & gas projects or large industrial projects in the Sousse region. With this base, SAROST extends its parc of logistics bases managed by its teams throughout the country to seven.

The Monastir base, which has an area of 12500 m<sup>2</sup>, is currently in the process of being prepared to provide a site which allows to meet high standards of health, safety, security and environment,

### Our logistics base respond to the highest standards

as with the other six bases, The base has been conceived to satisfy the specific needs of big projects and will include : an open storage area, a warehouse, a washing area, equipped offices, a small garden, high intensity projectors for night operations, parking, as well as an eventual storage area for chemical products and dangerous products.

### SAROST offers many « logistics solutions» for its partners.

Thanks to its experienced and well trained logistics personnel, SAROST coordinates, for the account of its clients, the transport of all equipment



Logistics base, industrial park of Monastir. 3D picture.

and material from its site of import, to the logistics base from where it is dispatched to the work site and eventually back, realizes and supervises

LOGISTICS

Key Figures

53.000 m<sup>2</sup>

For SAROST 7 logistics bases

LOGISTICS

key Figures

07 Logistics Bases

In the entire Tunisian territory

all loading and offloading operations, ensures management of the inventory, carries out all purchases, and coordinates with various subcontractors inspections, certifications, waste management operations, etc. SAROST realizes all of this ensuring the utmost respect of the environment and of safety and security norms on behalf of its teams as well as on behalf of the teams of its subcontractors, thereby allowing its clients to focus on their core business in all assurance.



Logistics Base attached to Sfax Port

## SAROST VESSELS

### SAROST shortlisted by ENI

SAROST Offshore Support and Port Services Vessels Division (DNO) has been pre-selected for the tender concerning the provision implementation of a UTILITY RECOL VESSEL on behalf of ENI. Contract negotiations are currently in advanced stage.

#### ISIS enter in the dry dock

ISIS unit (AHT-3400 BHP Platform Supply and Support Vessel) was replaced by ASHTART after the extension of the contract for 12 months for the benefit of SEREPT until May 2014; ASHTART will ensure the standby security and supply of SEREPT oil platform operated by in Sfax offshore.

ASHTART operating for serept , remplacing ISIS

#### SAROST V serving BGT until April 2014.

The SAROST V (Anchor Handling Tug Supply Vessel IPR) continue to provide standby security and supplying oil platforms Miskar and Hasdrubal, operated by British Gas Tunisia in Sfax offshore until April 2014.

### INTERNATIONAL HSSE SAROST

#### First Drill exercise of Jawahara 5 held in 25/09/2013, with the participation of Gemak

The objectives are:

- To train all personnel to react quickly and effectively to reach the muster point in case of fire;
- To familiarize the staff with the use of escape routes;
- To facilitate the intervention of fire fighting Teams;
- To test the reability of the fire fighting procedure on Jawhara 05.

To conduct an exercise assessment we consider the following steps:

- Find the beginning of the fire (scenario: Fire on main deck)
- Alarm

- Call first intervention Team equipped with fire extinguishers
- Call second intervention Team using fire fighting hoses
- Exit way: Main Gangway
- Evacuation Time: 2 minutes 30 seconds
- Time needed for personnel checking : 1 minute 12 seconds.



## SIM ACTIVITIES

### Optimizing the development of decisional dashboards .

SAROST has implemented a new «Software Table »to analyze, visualize and share information quickly and easily In order to allow the SIM department to optimize the development of dashboards in the one hand and to provide the opportunity for managers and executives to design their own decisional dashboards in the other hand;

### A new approach to business intelligence:

Tableau Software is a « rapid-fire » business intelligence product. They deliver better business results than traditional business intelligence (BI) systems. They are much easier to deploy, administer and scale.

They allow users of all levels to ask and answer questions themselves – in a matter of seconds. They employ cutting-edge advances in computer science to accelerate analysis. The result is that business users can work with data of any size independently, while reducing the burden that heavy BI platforms place on IT.



### The six attributes of a rapid-fire BI solution:

1. Self-service approach.
2. Easy visual interfaces.
3. High performance
4. Data blending.
5. Easy administration.
6. Flexible configuration

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### BEST EMPLOYEES OF JULY, AUGUST, SEPTEMBER 2013

Mr. Ilyes CHERIF, Mr Rafii ABOUBAKER and Mr Chedly REZGUI

### C.E.O WORD

I want to emphasize the high degree of professionalism and expertise of SAROSTOIS allowing us to meet each day the new challenges which represents the source of our development and growth.