

PROJECT SHEET

THARWA, SAUDI ARABIA
DREDGING & RECLAMATION INFRA

BOSKALIS

Royal Boskalis Westminster N.V. (Boskalis) is a leading global services provider operating in the dredging, maritime infrastructure and maritime services sectors. Our company, Boskalis Westminster Al-Rushaid Co. Ltd. (BWAR) is a Partnership between Royal Boskalis Westminster and Al Rushaid Petroleum Investment Company. The company provides creative and innovative all-round solutions to infrastructural challenges in the maritime, coastal and delta regions of the world. With core activities such as coastal defense, river-bank protection and land reclamation, Boskalis is able to provide adaptive and mitigating solutions to combat the effects of climate change, such as extreme weather conditions and rising sea levels, as well as delivering solutions for the increasing need for space in coastal and delta regions across the world. On behalf of our Client ANSAB General Contracting Co. Ltd and owner Saudi Tharwa, BWAR has laid the foundation for the development of Fortune City, Tharwa Town thus contributing to the growth and prosperity of a country that predicts a bright future. During the project, BWAR has increased localization by means of local suppliers and manpower and emphasized our Corporate Social Responsibility by performing monthly beach clean-ups to contribute to ecological welfare.

INTRODUCTION

With a growing population, the Kingdom of Saudi Arabia (KSA) has developed a master plan to prosper the eastern province. Therefore real estate developer Saudi Tharwa has granted the development of 4 million square meters of real estate to ANSAB General Contracting Co. Ltd.. The work consisted of the reclamation of an excess of 20 million cubic meters of sand in a period in less than a year, as well as the implementation and development of infrastructure suitable for a population density of approximately 31,000 people.

SCOPE

BWAR initiated the Dredging and Reclamation of an excess of 20 million cubic meters of fill material/sand from the borrow area to the Tharwa reclamation on the 1st of July 2019. Execution works were performed with the Cutter Suction Dredger (CSD) Taurus II, supported by the BKM 102, BKS292, CAT 374 Elevated Excavator and shallow drafted workboat Linda.

FEATURES

Client	ANSAB General Contracting Co. Ltd (Main Contractor)
Location	Dammam, Kingdom of Saudi Arabia
Period	March 2019 – May 2020
Contractor	Boskalis Westminster Al Rushaid Co. Ltd.

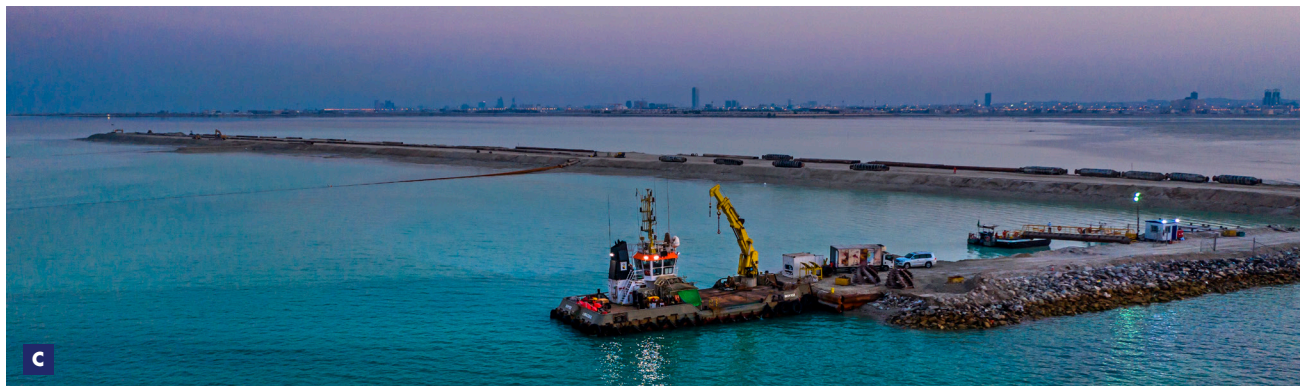


A Reclamation progress.
B Dredging operations CSD Taurus II.

Challenging conditions have been overcome such as:

- **High pressure and long discharge distance:** Discharging material at lengths beyond 5 km.
- **Wear and tear management:** Challenging soil conditions causing high focus on wear and tear management of the dredger and auxiliary equipment.
- **Shallow water anchoring:** Shallow water anchor handling triggering the incentive to innovatively think about alternatives for the conventional anchor handling. As such a 4 km long side anchor configuration in combination with an elevated excavator has been deployed to allow tide-independent anchoring.





- **Beat the heat:** Extreme heat during the summer months having to focus on sufficient rest and hydration of our personnel.
- **Environmental requirements:** Compliance with environment requirements by applying mitigating measures such as installation of silt screens and Waste Management.
- **Stakeholder management:** Maintaining a satisfactory relationship with stakeholders by meeting the individual requirements on time and assuring continuity as promised.

TEAM WORK

A vivid, well collaborative project team managed to overcome challenges swiftly and prudently to accommodate a safe and operationally sound execution of the works. By open communication, respect, and regularly constructive feedback, the project team excelled in efficient and effective execution of the works marking the strength of Boskalis agility and resilience when it comes to overcoming challenges. Client ANSAB General Contracting Co. Ltd, owner Saudi Tharwa and BWAR have jointly collaborated with local stakeholders to assure a smooth progress of the works.

SAFETY

Working within an environment with locally contracted third-party employees has challenged the project team to successfully implement our safety standard. Inclusion, cultural awareness and a constructive approach has benefited the pace in which safety standards were met and also contributed to local labor empowerment/development. The roll-out of our NINA program with third-party local personnel has contributed significantly to the safety standard on the project. This has been kept alive by NINA refreshers, Workboxes and Incentive programs. Apart from which general appreciation has been recognized by celebrating successes.

ESTABLISHMENT KSA

BWAR has established itself in KSA after having acquired sufficient local knowledge to accommodate a smooth preparation and execution of any marine construction related works. Recruitment and development of Saudi Nationals such as Governmental Relations Officers, Security Guards, Local Logistics Coordinators was a key success to establish a strong relation with government authorities and develop a local Procurement and Logistics network. Furthermore, in order to enhance local content the project has optimized utilization of national goods and services.

SUCCESSFUL COMPLETION

The Dredging and Reclamation scope of the Tharwa Project:

- Finished well before the required completion date, whilst adopting and finding solutions to accommodate altering clients requests.
- Achieved a high level in safety performance.
- Resulted in a product, complying with industry best practice based on self-regulatory requirements.
- Allowed for sequential handover and safe SIMOPS by means of close coordination while monitoring our Environmental impact and in line with our Corporate Social Responsibility.

This all was due to a great team work and in the spirit of collaboration with ANSAB General Contracting Co. Ltd. and Saudi Tharwa.



C BKM102 moored alongside jetty.
D Reclamation completed.