

Borouge 2 Cracker – EU2 Replacement Boiler

INMAR for roll on and roll off of big boiler blocks for **Borouge – Petrochemical Company**.



Module Weight: **3217 FRT**

Route: **Port Marghera, Italy to Mina Zayed, UAE.**

Scope & Expertise: **Roll-on & Roll off Procedure, Lashing/de-lashing, sea fastening**

Vessels : **m/v Rolldock Star**

Borouge 2 Cracker – EU2 Replacement Boiler

Borouge, the leading provider of innovative plastic solutions got awarded the contract to build its new ethylene cracker for Linde Engineering. The cracker was large enough to produce 1.5 million tonnes of ethylene per annum and was considered the largest gas cracker in the world.

Borouge 2 is was a key part of Borouge's strategy for growth, tripling its production capacity and consolidating its position in markets throughout the Middle East, Asia-Pacific and Africa.

The new expansion was to be located next to the existing Borouge's petrochemical complex in Ruwais, Abu Dhabi in the United Arab Emirates.

INMAR was approached for ocean transport the required heavy cargo that were sourced from Italy to Abu Dhabi .

Cargo

- Boiler Big Block 1550 x 1400 x 1400 cm – 490 ton
- Economiser Package 1170 x 450 x 320 cm – 69 ton
- BTW Pre-Heater
- Economiser loose materials,
- Boiler support



Borouge 2 Cracker – EU2 Replacement Boiler



Challenges

Huge boilers that were to be rolled on and rolled off to the ship

Lashing and safe transport.

Getting the boiler off the ship on the berth and finally in the barge was complicated.

Borouge 2 Cracker – EU2 Replacement Boiler

SOLUTION

The boiler was transported by Heavy transport vessel m/v Rolldock Star from Porto Marghera. The cargo was rolled-on to the vessel through the **vessels strengthened ramp using SPMT.**

It was then lashed and secured for ocean transportation. The route via Suez Canal to UAE took 20 days with an average service speed.

Everything had been well prepared for the successful offloading of the oversized Boiler onto the dock. The boiler was rolled off onto shore using SPMT, which are multi-axled modular trailer designed for the transportation of the very large and heavy cargoes.