



**Year of realization:** *August-November 2010*  
**Cargo type:** Production Modules & Large Block Equipments  
**Project:** Delivery of production modules and large-block equipments for oil production complex according to Caspian Oil Fields' Development Program  
**Route:** Derince (TURKEY) – Novorossiysk (Russia) – Baku (Azerbaijan)  
**Service:** receipt of the cargo in port Derince, the loading on the bulk vessel, transshipment in port Novorossiysk, the loading on river barges, river transportation to Astrakhan through Volga-Don river and final destination through Caspian Sea to Baku.  
**Restrictions:** **Floating modules with limitation of dimensions (heights and drafts) for inland Russian Federation waters proceeding** Necessity to get permission for transit proceeding within Russian territory of floating objects without crew and flag. Necessity to perform custom clearance for transit at the first Russian port of entry.

**Solutions:**

Development of study for carriage and sea fastening of heavy lifts and oversized equipment on barges/vessels, projects of safety passage for floating modules via inland Russian water ways; Arrangement of floating objects survey by the supervising authorities  
Getting of one trip certificate;  
Development of ballasting schemes to proceed via river parts with restrictions;  
Direct connection by the river tugs after load out operation in Azov sea to decrease time of transit;  
Legalization of transit permissions in Ministry of Transport for floating objects to proceed via Russian territory

August 2010, HT Project Team handled a large contract transport of a FSO (Floating, Storage, Offloading) from Derince to Baku at the Caspian Sea. HT arranged transport from Derince to Novorossiysk, the Black Sea, and further on through the Russian Don-Volga river system to the Caspian Sea.

The modules had been loaded on board two special heavy lift vessels in Derince, Turkey. Transshipment took place in the Black Sea, Novorossiysk Port where the modules had been loaded on to river barge vessels and transported through the river system from Azov to Astrakhan and the last section through the Caspian Sea to the oil city Baku in Azerbaijan.

The project involved HT offices in Istanbul, Turkey and Novorossiysk, Russia and the project team consisted of experienced project forwarders, engineers and stevedore foremen. After more than 6 months of preparation, loading of both special-purpose equipments started September, 2010 and the cargoes had been delivered.

