

## **Iraq**

Iraq is a country that is located in western Asia and shares borders with Iran, Jordan, Kuwait, Saudi Arabia and Syria. It has a very small coastline of just 36 miles (58 km) along the Gulf.

Time zone            UTC+3

Total area            438,317 km<sup>2</sup> (2006)

Iraq's capital and largest city is Baghdad. Other large cities in Iraq include Mosul, Basra, Irbil and Kirkuk and the country's population density is 179.6 people per square mile or 69.3 people per square kilometer

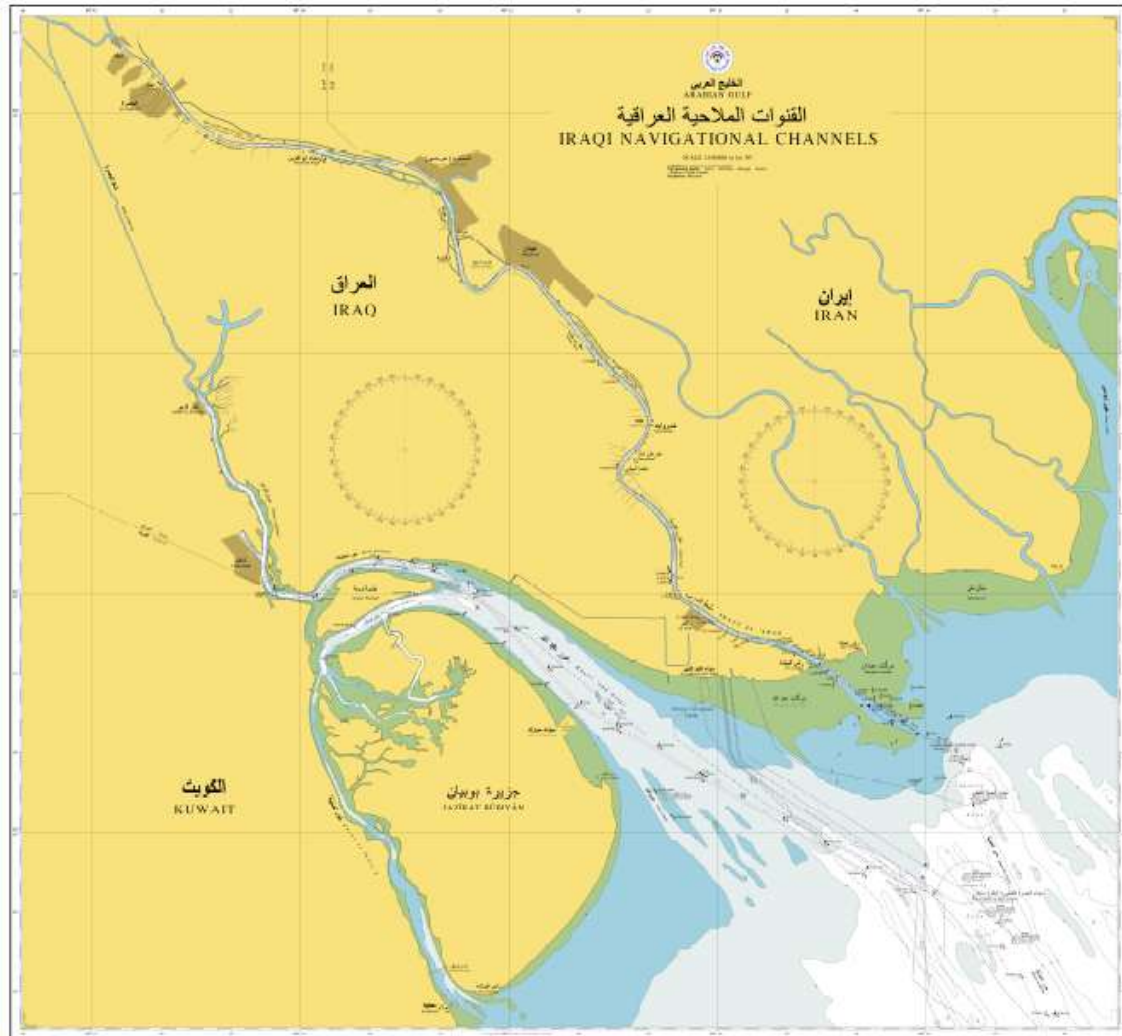
Currency            Iraqi dinars

Government type        parliamentary democracy

Languages            Arabic, Kurdish (official in Kurdish regions), Turkoman (a Turkish dialect), Assyrian (Neo-Aramaic), Armenian

Total population	2010*	2015**
	32.05 million	35.9 million

\*Estimate    \*\*Forecast



### General Company for Ports of Iraq (GCPI)

The GCPI is a national company one of Ministry of Transport companies. GCPI was found in 1919 as port of Basra. GCPI runs five commercial ports (Ummqasr north port, Ummqasr south port, khor al Zubair port, Abu Flous port and Almaaqal port. Also responsible for navigational operations in oil terminals and SPM terminals as well as. There are two navigational channels which lead to five commercial ports. Khor Abd Allah and Shatt al Arab, in addition to khor al Kafka and khor al Amai, which leads to Iraqi oil terminals.

GCPI is responsible for Hydrographic survey in all Iraqi navigational channels and Iraqi territorial water.

GCPI owned big fleet of different kinds of vessels such as Tugs, Dredgers (cutter suction dredgers, hopper suction dredgers, grab hopper suction dredgers), one Nav Aid (buoys lighting) vessel, Hydrographic survey boats, heavy lifting cranes, diving boat, firefighting boat, Piloting vessel etc..

The total employees are 12 thousand persons in different educational level.

**Iraqi Ministry of**

**General company  
for Ports of Iraq**

**Dredging  
section**

**Dredgers  
department**

**Hydrographic  
department**

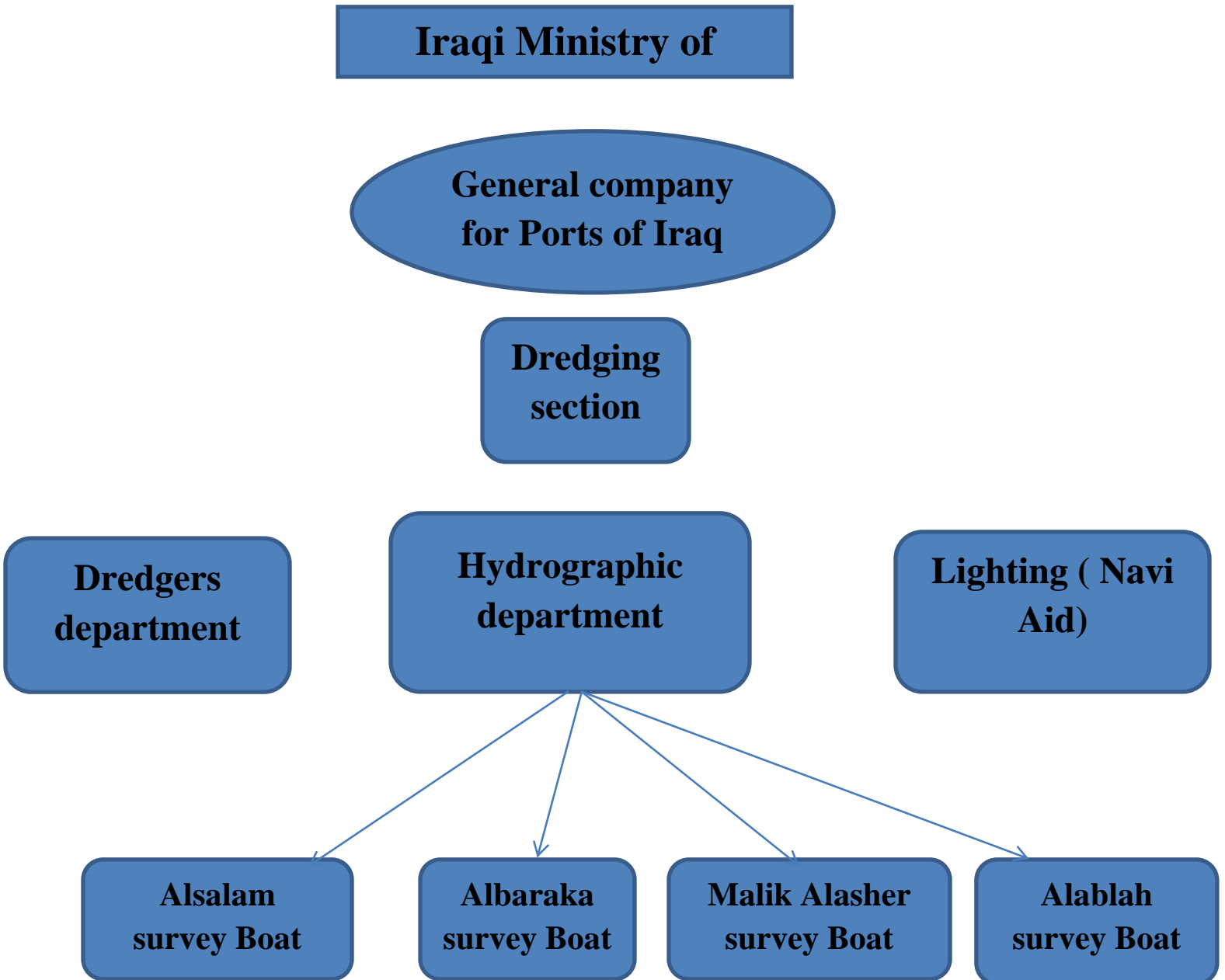
**Lighting ( Navi  
Aid)**

**Alsalam  
survey Boat**

**Albaraka  
survey Boat**

**Malik Alasher  
survey Boat**

**Alablah  
survey Boat**



## **Hydrographic survey department**

It was found in the first day of establishing Basra port; its job is to produce bathymetric chart, water currents condition, monitoring the depth in navigational channels and Corporation to provide required services to other GCPI departments, such as dredgers department, salvage department, and Nav Aid department. In addition, the department involved in water border issues and other studies related to depth and current.

## **Equipment, Technology, Software**

Survey boats ALBARKA, ALASLAM and MALK ALASHTER are operational.

A new survey boat Al Ablah was added in 2015, so far it is still under warranty.

Reson Navisound 410, 420 single beam echo sounders have been used in the three survey boats in produce bathymetry of port areas and Approach Channel.

Multi beam echo sounder R2Sonic 2020 system was purchased and installed in Al Ablah survey boat.

HYPACK software used in hydrographic survey

Side scan sonar (SSS)

Acoustic current profiler (ADCP)

## **R2Sonic**

The R2Sonic 2020 Multi-beam was installing on board Al Ablah survey vessel in step to upgrade the hydrographic survey task in GCPI and suit the criteria of undertaking the survey operations in Iraqi navigational waters.

## **British Admiralty (BA) Charts**

The BA charts covering the Iraqi navigational channels:

1235

1228

1229

1265

3842

3843

3844

3845

3846

### **Future Work**

Iraqi Hydrographic Survey Department work to be member of IHO and cooperate with UKHO and IALA. GCPI took many steps forward in complying with IMO international maritime organization regulations and requirement. Participate in IHO regional hydrographic commission RSAHC (ROPME Sea Area Hydrographic Commission).

### **Local Cooperation**

Hydrographic survey department working with other local national side

- Iraqi Coast Guard
- Ministry of Higher Education (Basra University)
- Iraq Defense Force (Navy)
- Ministry of Environment
- Ministry of Foreign Affairs
- Ministry of Defense (Land survey)
- Ministry of Water Resource (Land survey)
- South Oil Company (SOC)

## International Beneficiaries

- Maritime business companies.
- Foreign Companies for Survey, Dredging and Reclamation,

## Staff

The Hydrographic survey department contains of 100 employees. Hydrographic Surveyors are 14 surveyors in two group each group have senior surveyor who is responsible for the rest of his team. They work on week off week, other staff are seafarers use the same working system (week on week off) as well as. The administration contain the head of department with his assistance and other staff. Located in Dredger division planned and run the department,

## Hydrographic Department digram

