

**ISLAMIC REPUBLIC OF IRAN**

**Ministry of Roads and Transportation**

**Ports and Maritime Organization  
(PMO)**

**National Report for the 3<sup>rd</sup> ROPME Sea Area  
Hydrographic Commission**

**Final Report**

**MONACO  
IHB  
8 and 9 June 2009**

**Executive Summery**

**Background :**

Iranian Hydrographic activities are organized by National Hydrographic Committee (NHC). Islamic Republic of Iran has become member of IHO Since 1961 .

The objective of National Hydrographic Committee is to provide services to enhance the safety of navigation within Iranian coastal waters, territorial sea, EEZ and inland waters.

The principal service is the provision of Nautical Information , including Nautical Charts , Notices to Mariners , Navigational Warnings , etc...

The provision of accurate and up to date charts provide significant economic and commercial benefits through facilitation of maritime trade and other marine activities.

**Mission :**

The mission of National Hydrographic Committee is to ensure the provision of adequate and timely hydrographic information , international marine navigation and other purposes, nation –wide (e.g. offshore constructions, research activities etc.), through the co-ordination of local hydrographic organizations.

**Objectives :**

The objectives of the National Hydrographic Committee are as follows:

- 1 – Co-ordination of national hydrographic activities;
- 2- To unify the national nautical charts , documents and publications;
- 3- bilateral or mutual co-operation with IHO and regional States.

**1-Hydrographic Services:**

<b>Iran ( Islamic Republic of)</b> <b>PORTS AND MARITIME ORGANIZATION</b> <b>Maritime Affairs Department</b> <b>No. 1 PMO Building, South Didar St. , Shahid Haghani Highway, Vanak Sq.</b> <b>Tehran- IRAN</b>	
<b>Department of which the Hydrographic Officer is Part</b>	Ministry of Roads and Transportation
<b>Principal functions of the H.O.</b>	Safety of Navigation, Hydrographic Survey, Notice to Mariners, Chart Production, ENC Production
<b>National Day</b>	11 February
<b>Telephone:</b> <b>Fax:</b> <b>E-mail of Contact Person:</b>	+9821 8865 1116 , +9821 84932143, +9821 84932152, +9821 8493 2675 <a href="mailto:aparhizi@pmo.ir">aparhizi@pmo.ir</a> <a href="mailto:Parizi@pso.ir">Parizi@pso.ir</a>
<b>Date of establishment and Relevant National Legislation</b>	June 1961
<b>Name and Rank of Director or Head</b>	Mr. Ahmad FOROUGHI Director General of Marine Affairs Tel: +9821 8865 1116 Fax: +9821 8493 2675 E-mail: <a href="mailto:foroughi@pso.ir">foroughi@pso.ir</a>
<b>Tonnage</b>	2008 = 2,130,487 GT
<b>Total Budget</b>	€ 25, 000 ,000
<b>Staff employed- Hydrographers ( Name and rank of managing staff)</b>	Mr. S. PARIZI Mr. M.H. MOSHIRI Mr. S.R. NOURBAKSHI Mr. R. RANJBAR

<b>Cartographers (Name and rank of managing staff)</b>	Ms. A. MOJTAHEDI Ms. F. SALAMI Mr. A. MEMBARI Mr. H. RASOULI		
<b>Administrators ( Name and rank of managing staff)</b>	Mr. M.H.KHODDAM MOHAMMADI Mr. M. BODAGHI Mr. A. PARHIZI		
<b>Other staff</b>	126 Persons		
<b>No. of Paper Charts Published</b> <b>No. of ENC Charts produced</b>	143 Sheet 40 Cells		
<b>Surveying vessels/Aircraft</b>	<b>Displacement</b>	<b>Date Launched</b>	<b>Crew</b>
<b>IRAN ABNEGAR</b>	120	2000	16
<b>EKTESHAF</b>	40	2003	5
<b>NAYBAND</b>	120	2001	15
<b>PERSIAN GULF</b>	85	2005	15
<b>Dolphins 1-5</b>	36	2002 – 2005	20
<b>Other Information of interest</b>	Ports and Maritime Organization ( PMO) according to national law has responsibility of all maritime activities including : 1- Control of safety of navigation in I.R. of Iran's territorial waters and waterways. 2- Hydrographic Surveys. By establishing National Hydrographic Committee (NHC) in 2003 , in I.R. of Iran, all the activities related to hydrography , paper and ENC Chart production are being decided in this Committee, and will be produced by other governmental Organizations		

## 2- Surveys:

### New Technologies and /or Equipments

- **DGPS**
- **Motion sensors,**
- **Single beam echo sounders,**
- **Multibeam echo sounders**
- **Seabed classifier ( Roxann)**
  - **Side Scan Sonar**
  - **Sub bottom profiler**
  - **SVP & CTD**
  - **Mechanical tide gauges, Electrical tide gauges & Electronic Seabed tide gauges**

## 3- New charts & updates:

### ENCs

- **Producing about 40 ENC cells**

- 10 charts under production

#### ENC Distribution Method

- Is under process

#### RNCs

- Not applicable – Iranian charts production are mostly in vector form .

#### INT Charts

Following Iranian charts are according to INT chart scheme in the area "I". Meanwhile it is decided to change method of national chart numbring . IR will be shown before chart numbers instead of PG.

- National chart IR 3070 → INT 7205
- National chart IR 3002 → INT 7208
- National chart IR 3012 → INT 7207
- National chart IR 3010 → INT 7210
- National chart IR 3017 → INT 7305
- National chart IR 3021 → INT 7306
- National chart IR 3031 → INT 7205
- National chart IR 3040 → INT 7240
- National chart IR 3043 → INT 7304
- National chart IR 3074 → INT 7307

#### National Paper Charts

- 1989 – 1998 : Producing 26 paper charts
- 1998 – 2006 : Producing more than 100 sheet
- 2006 – 2009 : Producing more than 143 sheet
- 2009 : Under production : 40 sheets of paper charts

#### 4- New publications & Updates:

##### New Publications

- Tide table 2009
- Tide prediction are available on web site

##### Update publications

- All charts are updated.

##### Means of delivery e.g. paper – digital

- Means of delivery are paper and digital form

#### 5- Maritime Safety Information (MSI):

Existing infrastructure for transmission :

PMO (Ports & Maritime Organization ) of I. R. of Iran is in the national authority of Islamic Republic of Iran with collecting and issuing coastal and local warnings in sub – region of NAVAREA IX.

### Maritime Safety Information (MSI)

- 1- Coastal warnings: Coastal MSI are promulgated by national co-ordinator by means of WNWNS.
- 2- Local warnings: These warnings covers inshore and inland waters, often within yhe limits of juristiction of harbor or port authorities.
- 3- The present situations regarding to the promulgation of MSI originated by I.R. of Iran as follows:

a. Broadcast systems : VHF + NAVTEX

i. VHF

Local and coastal Navigation Warnings including Meteorological Warnings and forecasts are promulgated verbally for attention of local traffic and non conventional vessels which are not equipped to NAVTEX receiver.

ii. NAVTEX

I.R.of Iran operats three NAVTEX station to broadcast MSI , in Busheher and Shahid Rajae Port in North part of the Persian Gulf . (within NAVAREA IX ) and Freydoonkenar Port in the Caspian Sea area .

b. NAVTEX in Persian Gulf and Gulf of OMAN:

i. Bandar Bushehr

Duration : 10 Min. Meteorological Information 0400 , 1600  
 Covrage : 150 NM  
 Frequencies : 518KHz for international services & 490KHz for national services .  
 Transmitting hours for 518KHz: 0000 , 0400, 0800, 1200, 1600, 2000UTC  
 Transmitting hours for 490KHz: 0030 , 0430, 0830, 1230, 1630, 2030UTC

ii. BandarAbbas

Duration : 10 Min. Meteorological Information 0450 , 1650  
 Covrage : 150 NM  
 Frequencies : 518KHz for international services & 490KHz for national services .  
 Transmitting hours for 518KHz: 0050 , 0450, 0850, 1250, 1650, 2050UTC  
 Transmitting hours for 490KHz: 0120 , 0520, 0920, 1320, 1720, 2120UTC

c. Maritime Safety Information in Caspian Sea :

At present local and coastal navigational warnings are transmitted by VHF and a NAVTEX station in Freydoonkenar Port in the Caspian Sea

- i. **Bandar Freydoonkenar**  
**Duration : 10 Min. Meteorological Information 0500 , 1700**  
**Covrage : 150 NM**  
**Frequencies : 518KHz for international services & 490KHz for national services .**  
**Transmitting hours for 518KHz: 0100 , 0500, 0900, 1300, 1700, 2100UTC**  
**Transmitting hours for 490KHz: 0130 , 0530, 0930, 1330, 1730, 2130UTC**

d. **Type of messages transmitting by the NAVTEX stations:**

- i. **Navigational Warnings**  
 ii. **Meteorillogical Warnings**  
 iii. **Meteorillogical Forecast**  
 iv. **Search & Rescue Information and pirot attack Warnings**

**6- S-55:**

**Basic Data :**

**Maritime Nation / Area : Islamic Republic of Iran**  
**Nation or Area code : IR**  
**Region ID : AS**  
**Nation or Arae ( N or A ) : N**  
**EEZ (Sq Km) : 190.000**  
**Length of Coastline (Km): 4049 K.m**  
**Data for S-55 Edition No.: 4**  
**Latest update : March 2009**

**Hydrographic resources:**

**Maritime Nation /Area : Islamic Republic of Iran**  
**Hydrographic Surveying Vessels: 50 – 100 m ( 3 vessels)**  
**Under 25 m ( 6 vessels)**

**Status of Hydrographic Survey**

**Maritime Naton / Area : Islamic Republic of Iran**  
**Data Y/N : Y**

*State of Hydrography  $d < 50m$  : adequate% 75-resurvey % 35 - unsurveyed%25*

*State of Hydrography  $50m < d < 200m$ : adequate % 70-resurvey%20 unsurveyed%30*

*State of Hydrography  $d > 200m$ : adequate % 70- resurvey % 0 – un surveyed% 30*

**7- Capacity Building:**

**Traning recived :**

- **We had no delegaion participate at the Capacity Building For the period 2004 -2009**
- **Marine Cartography Courses in Tehran (2009) .**

- Hydrography Course in Bandar Shahid Rajaei (2008) and all the expenses were paid by PMO .
- ENC Production Course in Tehran (2007).

**Offered:**

- Msc. Course of hydrography in Tehran University are available , also recently Azad University in Tehran has been established the same courses .
- Oceanography and Marine physics courses are being offered in Azad University in Tehran and Ahvaz branches.
- In addition , to promote technical hydrographic knowledge between RSAHC States short courses can be carry out in English , by Islamic Republic of Iran.

## **8- Oceanographic Activities**

- Tidal observation by 70 Stations along Persian Gulf, Oman Sea & Caspian Sea
- Current Metering
- Sea bed Classification
- Collecting physical and chemical parameters of the characteristics

## **9- Other activities**

- Participate in IHO Conference and it's other committees, subcommittees and working groups
- Receive collected meteorological data via Iran Meteorological Organization to enhance the safety of navigation through the Persian Gulf and Caspian Sea by the means of VHF and NAVTEX .

## **10- Conclusions**

National Hydrographic Committee ( NHC ) , is incharge of publishing the charts for Coastal and territorial waters of I. R. of Iran ( the Persian Gulf , Oman Sea & Caspian Sea), INT charts will be published accordingly , and as a national coordinator of NAVAREA IX, (navigational warnings are timely promulgated in the area of jurisdiction) .

All surveying activities are within the requirements of IHO Standards .

ENC production also has been established and efforts are concentrated to produce ENCs for Coastal and territorial waters of I. R. of Iran ( the Persian Gulf , Oman Sea & Caspian Sea ), in the near future .

There are capabilities for providing all hydrographic services to other RSAHC regional States.

**Thank you for your attention.**