

HD/1803/III/ROPME/81

All members of RSAHC

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WORKSHOP ON PORT AND SHALLOW WATER SURVEY

Reference:

- A. Chairman RSAHC letter HD/1803/III/ROPME/201 dated 17 March 2010.
- 1. In continuation to letter at reference, the input desired on the subject has not been received from the member states. To progress further a draft proposal of workshop on Port and Shallow Water Hydrographic Survey is enclosed in this regard.
- 2. Chairman RSAHC is requested to include the same for discussion / finalization in the forthcoming meeting.

MUHAMMAD ARSHAD
Captain Pakistan Navy
Hydrographer
Chairman RSAHC

Copy to:

The Chairman
ROPME Sea Area
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SULTANANT OF OMAN

The Director
Captain Hugo GORZIGLIA
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Monaco Cedex
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w.r.t. nominate also a rep for the Ninth Meeting of the Capacity Building Sub-Committee (CBSC9) planned in May 2011 at Brazil.

DRAFT PROPOSAL

Workshop -Port and Shallow Water Hydrographic Surveys

The subjects are selected for a workshop for the participants having hydrographic experience and rendering services to the Port authorities. The structure is designed in such a manner that at the end of the workshop, the participants are geared up with additional knowledge about the latest trends and techniques in Hydrography and how best they can exploit the same in future.

Day	Subjects	Topics	<u>Details</u>
01	Survey Standards	IHO standards for Hydrographic Surveys	Focused w.r.t. shallow water/harbour surveys -Survey Classification -Minimum Standards -Quality Control and Quality Assurance of Data
02	Survey Planning		 Important consideration for Survey Parameters, Scale, Line Spacing, Fix Interval, Survey Speed and Positional Accuracy. Selection of Survey equipment Importance of calibration Preparation of Sounding Block for navigation and data collection Processing techniques
02	Survey Systems and Software	Acoustics	Conventional MethodsSingle Beam Echo SounderSide Scan SonarMulti Beam Echo SoundersMicrowave
		Positioning	 Basics and Conventional Technique (Sextants, Theodolites, Transit etc. GPS and DGPS GPS Kinematics Satellite base DGPS System Microwave Positioning System Setting up of Position and vertical control Basics of GPS positioning and Geodetic station Balancing of Network
		Tide and Vertical Datum	Tide PoleTide GaugeGPS (RTK) based Vertical ControlIntroduction to tidal prediction
		Software	 Latest Software for Collection and processing of Data and Data presentations

03	Preparation of Fair Sheet	Survey To Fair Sheet	 Grid/Graticules Bathymetric Data Topographic Data Tidal Data Title Area Scale Datum Projection Job ID Date
	Preparation of Survey Report		 Overview/Introduction Geodetic Control Surveying System Employed Bathymetry of the Area Horizontal/Vertical Control Tidal Data Wreck/Obstructions NAVAIDS Miscellaneous
	ENCs		- Description of Electronic Navigational Charts (ENC), and Electronic Chart Display and Information Systems (ECDIS) (Concepts, Components, Impact on Hydrography) - Standards Concerning ENCs
04&05	Practical Shallow Water Survey	Field Exercise and Practical Aspects of Surveying in Restricted Water	 Preparation, Planning, collection and Processing of Data. Preparation of Fair Sheet Boat Handling / Safety precautions in
			Harbour / Shallow waters