

Muhammad Arshad (Pakistan)

Present Position Hydrographer Pakistan Navy
Date of Birth 08/02/1963
Language English and Urdu

Academic Background

- B.Sc in Naval Sciences
- Pakistan Naval Engineering College for Advance Studies.
- Professional Courses at Naval Training Establishment.
- Masters in Strategic Studies.

Ocean Sciences Professional Qualifications

- Post Graduate Diploma Hydrographic Surveying from Plymouth University — United Kingdom
- Advance Survey Course (Long-H) — United Kingdom
- Physical Oceanography Course — Japan
- Electronic Navigation Chart Production (CARIS) — Netherlands
- Attended international course on UNCLOS Article 76 regarding Extension of Continental Shelf at NOC, Southampton, United Kingdom
- Course on Maritime Boundary Delimitation under IBRU at Singapore

Appointments and Distinguished Posts

2009-to date: Commodore Hydrographer Pakistan Navy and Coordinator NAVAREA IX.
2006-2008: Commanding Officer Survey Vessel
2004-2005: Deputy Hydrographer
2003-2004: Executive Officer and Senior Surveying Officer Survey Vessel

Member — National Maritime Forums

- Member of National Oceanographic Commission
- Member of Central and Zonal Light Houses Advisory Committee
- Member of National Committee of Geodesy and Geophysics
- Member of the Board of Governors of National Institute of Oceanography (NIO)
- Member of the Committee on Earth Observations Programme, SUPARCO

Member — Pakistan International Representation

- Coordinator NAVAREA IX
- International Hydrographic Organization

- International Association of Hydrogological Sciences (IAHS)
- North Indian Ocean Hydrographic Commission (NIOHC)
- ROPME Sea Area Hydrographic Commission
- Member Pakistan Technical Committee on Maritime Boundary Delimitation
- Technical Member on UNCLOS-82 to the Defense Ministry
- Member IHO working Group S-23 (naming on limit of seas and oceans)

Ocean Related Activities and National Responsibilities

- Responsible for the timely availability of International Nautical Charts Series/associated Navigation Publications of Pakistan under IHO and Government directives
- As coordinator NAVAREA IX responsible for the prompt promulgation of Maritime Safety Information (MSI) and radio navigation warnings in North Indian Ocean, Persian Gulf and Red Sea
- Adviser to Federal Government in demarcation of maritime zones, boundaries and Pakistan Baseline affairs
- Assisting Federal Government. in hydrographic surveys of areas under the legal jurisdiction of Pakistan through planning and execution of hydrographic surveys
- Responsible for establishment of Geodetic Network along Pakistan coast and promulgation of Chart Datum
- Conduct Hydrographic and Oceanographic research surveys and studies of Pakistani waters for tides, tidal streams, currents, nature of seabed, wave motion, ocean climatology, bathymetry and submarine conditions
- Render assistance in Physical, Chemical, Biological and Geological Oceanographic research
- Assisting Federal Government in carrying out surveys within the Exclusive Economic Zone for exploration and exploitation of natural resources (both living and non-living) and assistance of national scientists
- Local and marketing of wrecks and navigational hazards for the safety of ships

UNCLOS Related Work

- Attended International course on UNCLOS Article 76 regarding Extension of Continental Shelf at NOC, Southampton, United Kingdom
- Appraised Authorities on the aspects of Article 76 and pioneer member of the Pakistan Continental Shelf project
- Member Technical Committee Extension of Continental Shelf Project
- Technical member in hydrographic, geodetic, maritime boundary and baseline matters in Pakistan continental shelf submission
- Advising Federal Government in Pakistan post submission matters
- Advising Federal Government with regard to scientific surveys in Pakistan Maritime Zones

Major/International Surveys

2007 — Organize and carried out hydrographic project at part of Salala Oman with Omani Authorities onboard. Process the survey results and produced fair sheets.

2007 — Carried out hydrographic surveys at approaches to Jeddah port

2007 — Carried out joint survey with India at Sir Creek

Professional activities

- Carried out various bathymetric/marine surveys, survey planning, field work, position control, hydrographic data logging and post survey work as surveying officer
- In charge team established geodetic network along Pakistan coast
- Carried out various scientific and seismic research cruise onboard involved in scientific analysis and ocean data processing
- Planning and execution of various hydrographic surveys for the Pakistan coastal naval port
- Forecast survey requirement, appraisal at HQs level and tasking of survey assets
- Major survey acquisitions, survey training and induction of personnel

Conventions, conferences, meetings**International meetings**

2005 Maritime boundaries meeting in New Delhi, India

2006 Maritime boundaries meeting in Islamabad, Pakistan

2010 NESA seminar in Washington D.C., United States of America

2010 NIOCH meeting in Dhaka, Bangladesh RSAHC

2011 Meeting at Musqat

Awards and Achievements

Chief of Naval Staff letter of commendation

Fleet Safety Award