

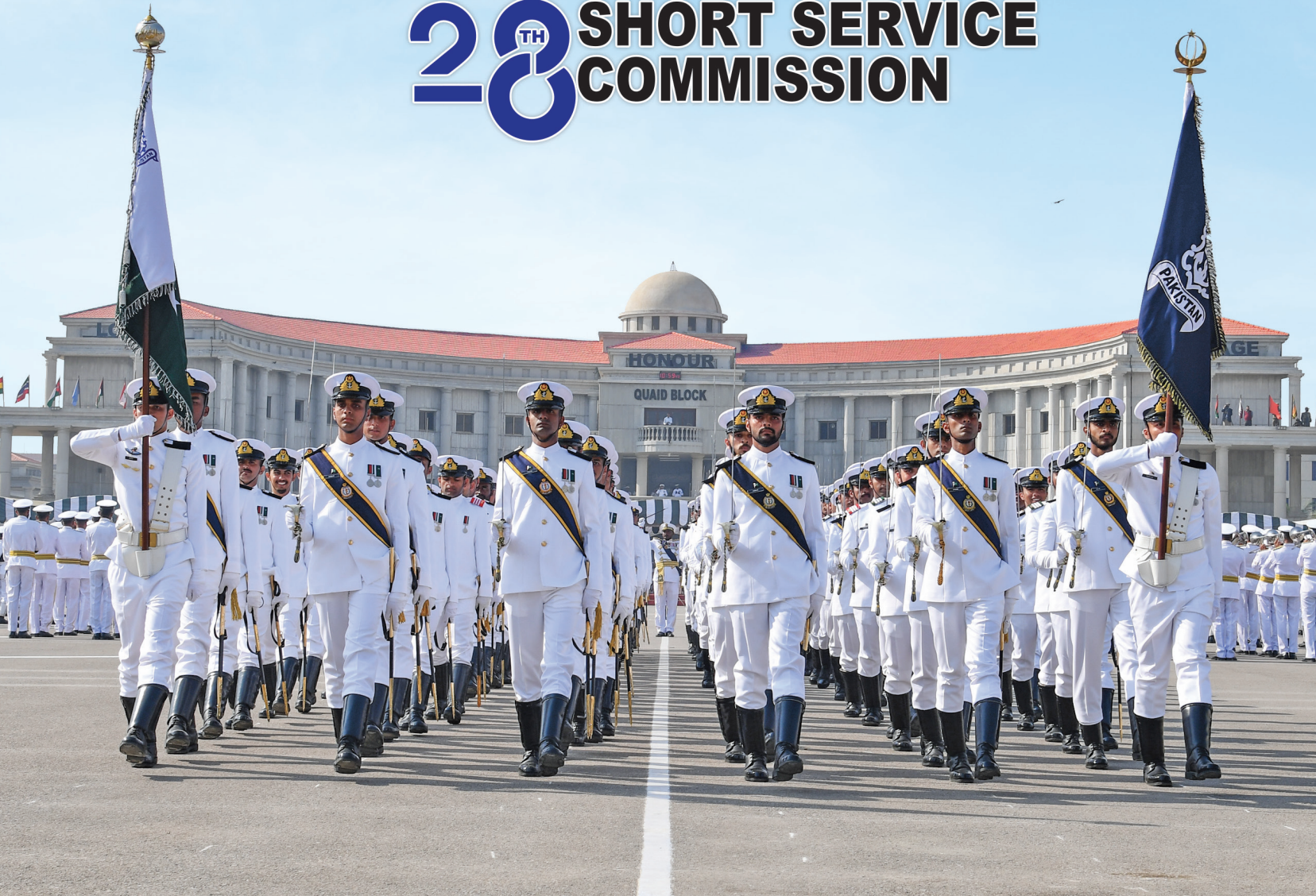
NAVY NEWS

ABC Certified

December 2023

COMMISSIONING PARADE

120TH MIDSHIPMEN & 28TH SHORT SERVICE COMMISSION

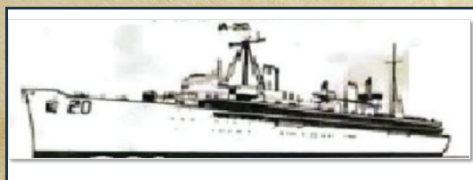


NAVY THROUGH HISTORY

LAST PHYSICAL REMINDER OF THE REPAIR SHIP



ex USS Hector in 1985 later
PNS MOAWIN



The facilities of the repair department onboard PNS MOAWIN resembled a mini dockyard consisting of four divisions, corresponding to the four major types of repairs namely:

TECHNICAL

Cryptographic Repair Facility
Fire Control Shop
Optical & Rangefinder Shop
Ordinance Repair Shop
Photo & Blueprint Laboratory
Plating Shop
Print Shop
Typewriter Repair Shop
Watch Repair Shop



PNS MOAWIN's Propeller on display at the PMM
Type - True Screw solid manganese Bronze
Number of Blades - 4, Diameter - 14'-6", Pitch - 16' 3"

MACHINERY

Boat Engine Repair Shop
Boiler Shop
Foundry
Guage Shop
Hydraulic Shop
Machine Shop
Machinery Section
Pattern Shop
Refrigerator Repair Shop

HULL

Blacksmith Shop
Canvas Shop
Carpenter Shop

Diving and Salvage
Gas Mask Repair Shop
Pipe and Copper Shop
Rigging
Sheet Metal Shop
Shipfitter Shop
Welding Shop

ELECTRICAL

Battery Repair Shop
Electrical Repair Shop
Electrical Instrument Shop
Electronics Shop
Gyro Compass

CONTENT

Dec 2023 Vol. 36 Issue 07

ABC Certified - Reg # 16(1381) /15-ABC



02

CNS reviews operational preparedness of Pakistan Navy



04

35th Convocation ceremony of Pakistan Navy Engineering College



09

CNS attends 8th Indian Ocean Naval Symposium



10

PN inducts 5th ATR Aircraft



12

6th Maritime Security Workshop



30

PN Promotions



34

7th CNS Open Shooting Championship



36

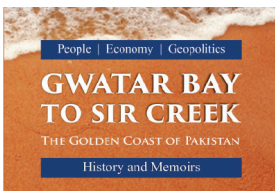
13th CJCSC Open Golf Championship



44

120th Midshipmen and 28th SSC Course Commissioning Parade

Book review by
Cdre Aitazaz Khalid



50

Gwatar bay to Sir Creek

Article by
Surg Lt Cdr Hina Mahmood PN



52

Prevention of Heart Diseases Through Lifestyle Modification



54

Pakistan Maritime Museum with new look

Patron-in-Chief:

Commodore Syed Rizwan Khalid SI(M), T Bt

Chief Editor:

Cdr Zakir Hussain Khan TI(M) PN

Editors:

Lt Cdr Saba Riasat PN

Lt Cdr Rubab Zahra PN

Lt Cdr Omyer Sultan PN

Contributions by:

Capt Kamran Akram PN

Cdr Saleem Ahmed Chohan PN

Managing Editor:

Fayyaz Abbasi

Creative & Designs:

Syed Razzaq Hamdani, Majid Nawaz

Photographers:

Tanveer Ahmed, Babar Shahzad, Syed Waqas Raza, Adil, Usman Farooq, Zohaib

Directorate General Public Relations (Navy), NHQ Islamabad

Tel 051-20062799

Fax 051-20062364

Email Send Contributions at: magazinenavynews@gmail.com

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CHIEF OF THE NAVAL STAFF REVIEWS OPERATIONAL PREPAREDNESS...

VISITS CREEKS AND COASTAL AREAS AND PN SHIPS TO REVIEW OPERATIONAL PREPAREDNESS AND COMBAT READINESS OF THE UNITS



Upon arrival at Creeks Brigade Sujawal, a comprehensive operational brief was presented to CNS on prevailing threat environment and defence of Creeks Area. During the visit at forward posts, CNS interacted with officers and men and appreciated

their readiness to respond any misadventure by the adversary. On the second leg of his visit, Chief of the Naval Staff arrived at PNS AKRAM at Gwadar and interacted with the troops deployed for the security of Gwadar Port. He also visited Jinnah Naval Base,

Pakistan Navy Hospital Darmaan Jah and Cadet College Ormara. Later on, Chief of the Naval Staff Admiral Naveed Ashraf arrived onboard PN Ships at PN Dockyard Karachi to review the operational preparedness and combat readiness of PN surface ships.



The Naval Chief also visited NHS Mauripur Karachi. A comprehensive project brief including construction of houses and provision of various facilities at the site was given by PDNHS (South).

During interaction with troops at Creeks and Coastal Areas and onboard ships, Chief of the Naval Staff expressed satisfaction on operational readiness of deployed elements. He also appreciated the professional prowess and dedication of officers and men in ensuring impregnable defence of the motherland in harsh environment of Creeks and Coastal Areas and amidst prevailing regional challenges in maritime domain. Chief of the Naval Staff appreciated the morale of troops and directed the field units to ensure optimal utilization of latest weapons and equipment with motivation and alacrity in order to ensure defence of the country. ❖❖



35TH CONVOCATION

PAKISTAN NAVY ENGINEERING COLLEGE – NUST



President of Islamic Republic of Pakistan Dr. Arif Alvi, graced 35th Convocation ceremony of Pakistan Navy Engineering College (PNEC) as Chief Guest at Bahria Auditorium Karachi. Lt General (Retd) Javed Mehmood Bukhari, Rector NUST and Rear Admiral Muhammad Saleem, Commander Karachi were also present. The convocation was attended by Flag

Officers, CEOs of Local industries and parents as well.

A total of 376 x graduates were awarded degrees. The same included 02 x PhDs, 61 x MS and 313 x Bachelors' degrees, The Chief Guest also awarded 39 x medals to position holders which comprised 10 x President's Gold Medals, 06 x CNS Gold Medals, 06 x Chancellor's

Silver Medals and 17 x Rector's Gold Medals.

During address, the Chief Guest Dr. Arif Alvi apprised that NUST has come a long way as a premier science and technology university of Pakistan since its inception in March 1991. It has earned the infallible reputation of being futuristic university with the

OF SCIENCES AND TECHNOLOGY
ENGINEERING COLLEGE

CONVOCATION 2023





strong focus on multidisciplinary higher education, research and innovation. He appreciated that Pakistan Navy Engineering College (PNEC) under the auspicious umbrella of NUST is providing quality engineers to the evolving Industry of Pakistan and its responsibility has further increased

in present realm of emerging technologies like Artificial Intelligence and Robotics etc. He also acknowledged that the foreign students are a testimony to the PNEC's credentials in the engineering sector. The Chief Guest conveyed his warmest congratulation to the Graduating

students and their parents for their exceptional academic performance especially the Postgraduates and the medal winners. He encouraged the graduates to become active members of the society and contribute towards building a strong Pakistan. ❖❖







PAKISTAN NAVY COMMAND & STAFF CONFERENCE

Command & Staff Conference of Pakistan Navy concluded at Naval Headquarters, Islamabad. The Conference was chaired by Chief of the Naval Staff Admiral Naveed Ashraf.

During the conference, matters related to national security, geo strategic affairs, combat readiness and training of troops were discussed. The conference assessed the evolving maritime situation in the region due to ongoing conflict in Middle East. Under the prevailing maritime situation in the Middle East, deployment of PN Ship for the protection of Pakistan's merchant ships was discussed. Progress on PN projects including future plans was also reviewed and way forward was deliberated.

The Naval Chief emphasized on maintaining perpetual combat readiness to effectively thwart any aggression against Pakistan. The Naval Chief lauded the initiatives undertaken towards capability development through acquisition of state of the art platforms and emerging technologies. The Admiral expressed full confidence over high state of operational preparedness of Pakistan Navy to meet maritime challenges while safeguarding the maritime frontiers of Pakistan.

Command & Staff Conference is the apex decision making body of Pakistan Navy in which Chief of the Naval Staff along with all Principal Staff Officers and Field Commanders review the policies and plans of Pakistan Navy. ❖❖

Chief of the Naval staff Admiral Naveed Ashraf visited Thailand to attend eighth Indian Ocean Naval Symposium (IONS) Conclave of Chiefs at Bangkok. The event involved panel discussions on issues related to cooperation in maritime security of Indian Ocean and Blue Economy- ways forward for sustainable development of IONS members.

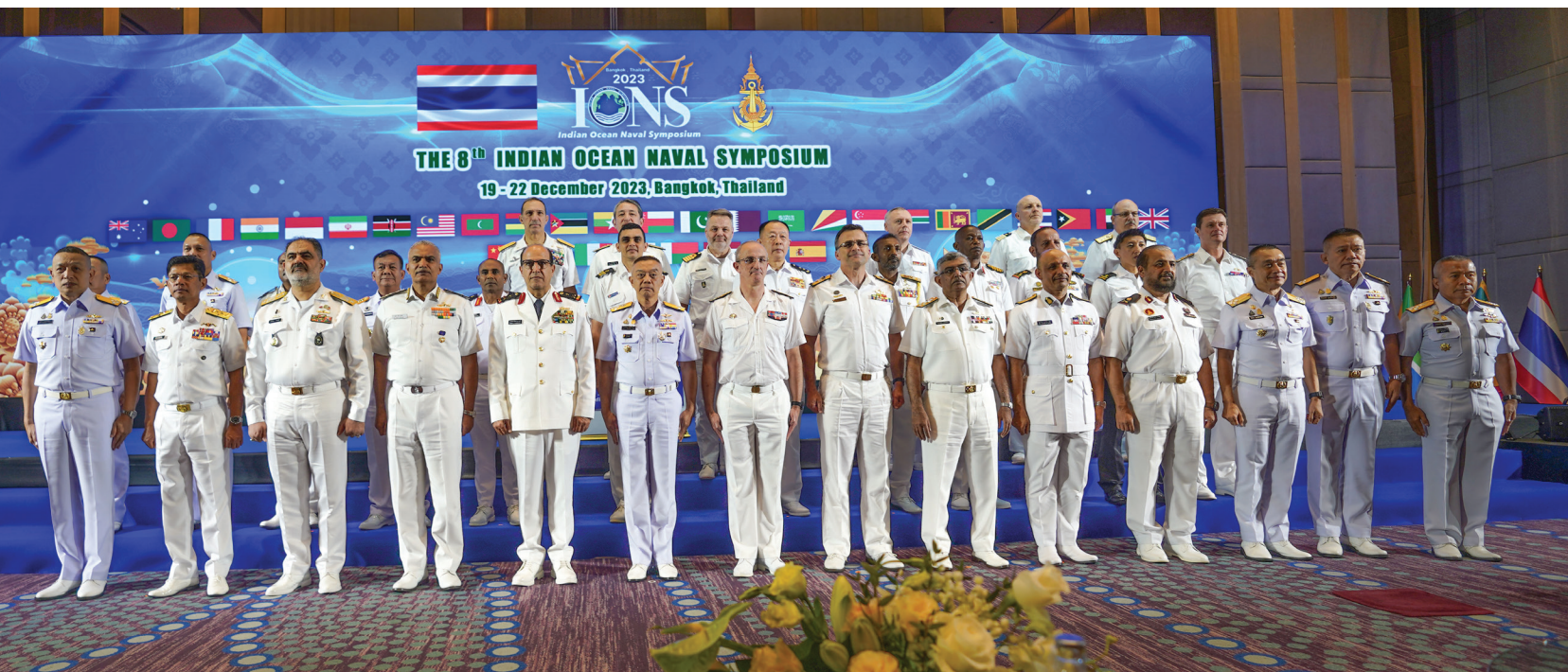
During IONS Conclave of Chiefs, bilateral meetings between Chief of the Naval Staff and naval leadership of IONS member states were also held. CNS called on Commander of Qatar Emiri Naval Forces, C-in-C of Royal Thai Navy, Deputy C-in-C of Russian Navy, Commander of Royal Navy of Oman, CNS of French Navy, Commander of Iranian Navy, Fleet Commander of Royal Navy, UK and Vice Chief of Japan Maritime Self Defence Force and discussed matters of mutual interest. Admiral Naveed Ashraf focused on PN contributions to regional maritime security and emphasized on collaboration between the regional navies to enhance maritime security of the

CHIEF OF THE NAVAL STAFF ATTENDS INDIAN OCEAN NAVAL SYMPOSIUM IN BANGKOK



region. He also stressed upon greater collaboration between Indian Ocean countries to exploit potentials of blue economy. Indian Ocean Naval Symposium (IONS) is an initiative to formalise a regional maritime collaborative forum. Pakistan formally became

member of IONS in 2014. PN proactively participates in IONS as it provides a platform to the participating nations to work together for regional peace and maritime security through a collaborative approach. ❖ ❖



PAKISTAN NAVY INDUCTS 5TH ATR AIRCRAFT IN AVIATION FLEET

The induction ceremony of 5th ATR of Pakistan Navy was held at Naval Aviation Base PNS Mehran, Karachi. Chief of the Naval Staff Admiral Naveed Ashraf graced the occasion as Chief Guest. The newly inducted ATR aircraft, acquired from PIA, is equipped with day and night flying capability to undertake ferry, logistics support, Medical Evacuation (MEDEVAC), General Evacuation (GENEVAC),

and training missions. Pakistan Navy is in the process of acquiring ATR aircrafts from various sources and is modernizing them to carryout maritime reconnaissance and anti-submarine warfare missions at sea. Being a commercial aircraft it has very low operating cost as compared to tailor made military aircraft. This is the 5th aircraft which has been acquired for the purpose.

Speaking on the occasion, Chief of the Naval Staff highlighted the importance of evolving geo-strategic environment in the Indian Ocean Region and emphasized the need to have a potent naval force in order to counter emerging challenges. He underlined the significance of strong maritime defence for Pakistan and reiterated that induction of modern



aircraft will enhance Pakistan Navy's capability of safeguarding our maritime frontiers.

Earlier during his welcome address, Commander Pakistan Fleet Vice Admiral Muhammad Faisal Abbasi highlighted that induction of ATR will ensure sustained operations from western seaboard through regular logistics and personnel movements.

Later, Chief of the Naval Staff handed over ATR documents to Commander Pakistan Fleet. The ceremony was attended by Flag Officers, Ex Aviators of Pakistan Navy and reps of Pakistan International Airlines (PIA). ⊗ ⊗





MARITIME SECURITY WORKSHOP



THE WORKSHOP AIMED AT GENERATING UNDERSTANDING ON DYNAMICS OF MARITIME SECURITY, CREATING AWARENESS OF BLUE ECONOMY AND EXPLORING UNTAPPED MARITIME POTENTIALS OF PAKISTAN

Sixth edition of Maritime Security Workshop (MARSEW-6) held at Pakistan Navy War College, Lahore. "Considering the state of country's economy it is imperative to realize Pakistan's maritime potential, since a robust national maritime sector can be a great enabler



for transition to a sustainable economic future”, said Chief of the Naval Staff Admiral Naveed Ashraf addressing the closing ceremony of 6th Maritime Security Workshop at Pakistan Navy War College, Lahore.

Maritime Security Workshop is Pakistan Navy’s annual event which aims to generate

understanding on the dynamics of maritime security, creating awareness about blue economy and exploring untapped maritime potential of Pakistan. The workshop participants included parliamentarians, policy makers, bureaucrats, academia, entrepreneurs as well as representatives from media. Speaking on the occasion,

the Chief Guest emphasized Pakistan Navy’s commitments to raise awareness on issues of National Maritime significance and underscored PN initiatives in generating informed debate on security issues, Blue-Economy, strategic developments in the Indian Ocean Region and intense geopolitical rivalry. He also apprised the audience that



CNS MESSAGE ON THE OCCASION OF MARITIME SECURITY WORKSHOP

“

It is a matter of great satisfaction for me that Pakistan Navy is holding its sixth Maritime Security Workshop at Pakistan Navy War College, Lahore. The Workshop has become an annual signature event of Pakistan Navy since 2017. It is pleasing to know that MARSEW is gaining traction and growing interest in the academic circle and at the institutional level. This is indeed a national need, and the one, which is sync with the demands of rapidly changing global trends.

Understanding oceans and maritime security is central to global geopolitics and economics security of nations. Pakistan cannot remain oblivious to geopolitical shifts in the maritime province of Indian Ocean or the demands of Blue Economy as an essential pillar of country's economy. Pakistan's economic future is strongly tied to sea and a stable maritime security order in the region. Despite

seas acknowledged as the common heritage of mankind, contested claims over maritime resources are spawning friction as never witnessed before in human history. New developments and simmering conflicts on the shores of Indian Ocean necessitate thorough understanding and informed debate to assimilate their wider impact on regional states. Increasing militarization of Indian Ocean and any escalation in crisis could spark a conflict with repercussions for the entire region. This will devour the economic advancement of many countries, perhaps in manner, which is inconceivable.

The significance of blue economy is vital for countries like Pakistan to draw appropriate and sustained economic benefits. The United Nations Sustainable Development Goal, related to oceans, requires all major stakeholders including Government agencies, policy makers, NGOs, scientists, researchers and local





communities to step-up their efforts towards conservation and sustainable use of ocean-based resources. Initiatives that help identify avenues of untapped blue potential can provide an impetus to overcome development and sustenance challenges, as well as reinforce national security. Understanding and recognizing the Oceans, the allied potential therein and what ails the blue world would be the first step.

I wish all the MARSEW participants an insightful interaction and a pleasant stay at Pakistan Navy War College.



Pakistan Navy is divesting resources for the socio-economic uplift of the less privileged segments of society, especially along the coastal belt. Earlier, Rear Admiral Javid Iqbal, Commandant Pakistan Navy War College during his welcome remarks gave a brief rundown of various activities during the conduct of workshop.

The nine day workshop brings about improved understanding of the maritime security and geopolitical underpinnings in the wider Indian Ocean. The workshop also highlighted the opportunities and challenges available in the national maritime sector of Pakistan and the manner in which it could help uplift country's economy. The participants were briefed on the role of Pakistan Navy in defending the national sea frontiers and in advancing

maritime interests of the country abroad.

The workshop was conducted in two phases. In the first phase, academic discourse on security dynamics in the Indian Ocean Region, challenges and opportunities in Pakistan's maritime sector, blue economy and its contribution towards Pakistan's economic prosperity and development of Gwadar Port within CPEC were dilated upon. During the second phase, the workshop participants visited Naval Headquarters Islamabad, various Pakistan Navy installations at Karachi, Coastal and Creeks Areas for orientation and familiarization. The participants boarded Pakistan Navy Ships and witnessed various naval exercises and procedures at sea. Other familiarization visits to maritime organizations included



**EMINENT INTERNATIONAL
AND NATIONAL SCHOLARS
CONTEMPLATED UPON SECURITY
DYNAMICS IN THE INDIAN OCEAN
REGION, CHALLENGES AND
OPPORTUNITIES IN PAKISTAN'S
MARITIME SECTOR, BLUE
ECONOMY AND ITS CONTRIBUTION
TOWARDS PAKISTAN'S ECONOMIC
PROSPERITY**



Karachi Shipyard and Engineering Works, Pakistan Maritime Security Agency, Karachi Port Trust and Pakistan National Shipping Corporation, besides a filed visit to Gwadar Port and Jinnah Naval Base Ormara.

The participants expressed sincere appreciation for the commendable role and efforts of the Pakistan Navy in effectively addressing the maritime challenges faced by the country. Additionally, they offered valuable suggestions for the further enhancement of maritime sector, while presenting a paper on proposed maritime policy of Pakistan. ❖❖





MARSEW-6

PARTICIPANTS VISIT NAVAL PLATFORMS & ESTABLISHMENTS



at KS&EW



at Sea



Visit to Bahria Schools & Colleges



Visit to PN Units & Hospitals



at JMICC



at Gwadar Port



at PNSC



at Jinnah Naval Base





at KPT



at PMSA



Visit to forward posts



PN FLEET ANNUAL EFFICIENCY COMPETITION PARADE

Pakistan Navy Fleet Annual Efficiency Competition Parade was held at Pakistan Navy Dockyard, Karachi. Chief of the

Naval Staff Admiral Naveed Ashraf graced the occasion as Chief Guest. Event marks the culmination of a rewarding and eventful operational

year for Pakistan Navy ships, submarines and aircrafts. Upon arrival at the venue, Chief

of Pakistan Navy Fleet. He acknowledged and praised the dedication and professionalism of officers and men in successfully achieving operational objectives and milestones for the year 2023. The Admiral commended PN Fleet's efforts and contributions towards maritime security. The Chief Guest also mentioned the modernization plan of PN wherein various platforms are being inducted in the Fleet. He underscored that induction of these platforms will immensely

technologies and work with utmost dedication and honesty.

Earlier, in his welcome address, Commander Pakistan Fleet Vice Admiral Muhammad Faisal Abbasi highlighted PN Fleet's operational achievements. He further highlighted that PN Fleet maintained high level of combat readiness throughout the year while Fleet units participated in various Bilateral and Multilateral exercises in home and foreign waters besides undertaking Regional Maritime Security Patrols and Overseas Deployments.



Guest was received by Commander Pakistan Fleet Vice Admiral Muhammad Faisal Abbasi. A smartly turned out contingent presented the Guard of Honour.

Chief of the Naval Staff in his remarks expressed complete satisfaction and confidence over operational preparedness

contribute towards capability enhancement of the Fleet. He also dilated upon the evolving maritime security environment in the region which requires Pakistan Navy to remain ever vigilant and fully prepared to safeguard national maritime interests. The Admiral urged all the participants to be fully cognizant of the latest

During the ceremony, Chief of the Naval Staff gave away efficiency trophies to units adjudged best in their respective squadrons and interacted with Officers and CPOs/ Sailors of Pakistan Navy Fleet. ❖❖

JOINT PAKISTAN NAVY - ROYAL NAVY OF OMAN EXERCISE

THAMAR AL TAYYIB 2023

Pakistan Navy - Royal Navy of Oman Bilateral Exercise Thamar Al Tayyib 2023 (TAT-23) was conducted in Gulf of Oman. This was 11th edition of the series of Thamar Al Tayyib exercises being conducted between Pakistan Navy and Royal Navy of Oman since 2002.

PN Flotilla comprising Pakistan Navy Ship ASLAT with embarked helicopter, Fast Attack Craft PNS QUWWAT and PN Maritime Patrol Aircraft along with Special Operations Forces participated in the exercise. The bilateral exercise was conducted in two phases. Harbour phase included operational and tactical level table top discussions and exercise planning conferences.

During the Sea Phase of the exercise, both the navies conducted range of advanced operational exercises encompassing major facets of maritime operations related to Anti-Air, Anti-Surface Warfare and Counter Terrorism exercises. The exercise also involved Coordinated Patrol (CORPAT) by ships of both Navies with an aim to curb illicit activities at sea. Ex TAT- 23 provided an avenue to enhance mutual learning, improve interoperability and opportunity for both navies to further hone their professional skills.

Pakistan and Oman share a common maritime area and both



the navies closely cooperate with each other to maintain good order at sea. Regular conduct of bilateral Exercise Thamar Al Tayyib 2023 is a clear manifestation of strong

fraternal and brotherly relations between Pakistan and Oman in general and Pakistan Navy and Royal Navy of Oman in particular. ❖❖

DIGNITARIES VISIT NHQ

The visiting dignitaries appreciated Pakistan Navy's efforts and initiatives in support of collaborative maritime security and stability in the region. Matters of bilateral collaborations and regional security milieu were discussed



H.E Mr. Hamad Obaid Ibrahim Salem Alzaabi **Ambassador of UAE to Pakistan** called on Chief of the Naval Staff



Brig Gen Fahad Alotaibi **Director Military Cooperation and Planning Dept, Kuwait** called on Vice Chief of the Naval Staff





PAKISTAN NAVY HAS NEW VICE CHIEF

VICE ADMIRAL OVAIS AHMED BILGRAMI APPOINTED AS VICE CHIEF OF NAVAL STAFF

Vice Admiral Ovais Ahmed Bilgrami was commissioned in Operations Branch of Pakistan Navy in 1989. He carried out his initial training from Britannia Royal Naval College, Dartmouth (UK) and won the coveted Sword of Honour. The Admiral's distinguished service career includes wide range of Command and Staff appointments. His major Command appointments were Commanding Officer of a Type-21 destroyer PNS KHAIBAR, Commander Karachi and Commander Pakistan Fleet. His Staff appointments include Fleet Operations Officer & Chief Staff Officer to Commander Pakistan Fleet, Staff Officer Operations at HQ NAVCENT Bahrain, Director Naval Developmental Plans, Director Naval Operations,

Assistant Chief of Naval Staff (Operational Plans) and Deputy Chief of Naval Staff (Operations) at Naval Headquarters Islamabad. As Flag Officer, the Admiral has also performed duties as Additional Secretary-III at Ministry of Defence. Presently, Vice Admiral Ovais Ahmed Bilgrami is serving as Vice Chief of Naval Staff at Naval Headquarters. He is a graduate of Pakistan Navy War College Lahore, National Defence University Islamabad, Naval Command & General Staff College Philippines and Royal College of Defence Studies UK. In recognition of his meritorious service career, the Admiral has been awarded Hilal-i-Imtiaz (Military).

24TH NATIONAL SECURITY & WAR COURSE (NSWC)

participants visit Naval Headquarters & Field Commands



National Defense University delegation comprising Officers from Friendly Countries undergoing 24th National Security & War Course (NSWC) visited Naval Headquarters, Islamabad and Pakistan Naval Academy (PNA).

Upon arrival Naval Headquarters, a detailed briefing was given to the participants on PN contributions towards promotion of maritime awareness and prospects of Blue Economy. Vice Chief of Naval Staff Vice Admiral Ovais Ahmed Bilgrami interacted with the participants of the workshop.

Upon arrival Pakistan Naval Academy, the delegation was received by the Commandant PNA, Commodore Muhammad Khalid. Later, a training brief was presented to the delegation about the roles and functions of Pakistan Naval Academy. The brief was followed by a detailed visit of training facilities at PNA. Subsequently, the members of the delegation held a healthy discourse with PNA faculty on matters pertaining to training and appreciated the quality of training being imparted at Pakistan Naval Academy. ❖❖



PN PROMOTIONS

COMMODORE TO REAR ADMIRAL



REAR ADMIRAL MAZHAR MAHMOOD MALIK

Rear Admiral Mazhar Mahmood Malik was commissioned in Marine Engineering Branch of Pakistan Navy in 1992. The Flag Officer is a graduate of Pakistan Navy War College Lahore, National Defence University Islamabad and qualified Masters of Science in Mechanical Engineering from National University of Science and Technology (NUST). During his illustrious naval career, the Admiral has served on various key appointments. His prominent appointments include Fleet Marine Engineering Officer at Fleet Headquarters, Deputy MD Pakistan Navy Dockyard and Chief Staff Officer to Commander Logistics. Currently, Rear Admiral Mazhar Mahmood is appointed as Managing Director Pakistan Navy Dockyard, Karachi. The Admiral is a recipient of Sitara-i-Imtiaz (Military).

REAR ADMIRAL SHAHZAD HAMID



Rear Admiral Shahzad Hamid was commissioned in Operations Branch of Pakistan Navy in 1993. He is a Naval Aircraft Pilot by profession. The Flag Officer is a graduate of Pakistan Navy War College Lahore and National Defence University Islamabad. The Admiral has a vast experience of Command and Staff appointments which include Command of P-3C aircraft Squadron and Commander Naval Aviation. He also served as Chief Staff Officer to Commander North as well as Naval Attaché of Pakistan in United States. Rear Admiral Shahzad Hamid is appointed as Director General Naval Intelligence in his new rank. The Admiral is a recipient of Sitara-i-Imtiaz (Military) and Tamgha-i- Basalat.

REAR ADMIRAL AZHAR MAHMOOD



Rear Admiral Azhar Mahmood was commissioned in Operations Branch of Pakistan Navy in 1993. The Flag Officer is a graduate of Pakistan Navy War College Lahore, Defence Services Command and Staff College Bangladesh and National Defence University, Islamabad. The Admiral has an illustrious naval career covering vast experience of various Command and Staff appointments. His command appointments include commands of PMSS BARKAT, PMSS KASHMIR, PNS TARIQ, Commander 9th Auxiliary and Mine Warfare Squadron and Commander 25th Destroyer Squadron. He also served as Chief of Staff to Commander Combined Task Force-150 at HQ NAVCENT Bahrain, Director Studies at National Defence University Islamabad and Director Foreign Military Collaboration at NHQ. Rear Admiral Azhar Mahmood has been appointed as Commandant PN War College at Lahore in his new rank. The Admiral is a recipient of Sitara-i-Imtiaz (Military).

PAKISTAN NAVY & TURKISH NAVY SPECIAL OPERATIONS FORCES EXERCISE

AYYILDIZ

2023

Pakistan Navy Special Service Group SSG(N) participated in bilateral Special Operations Forces (SOF) Exercise 'AYYILDIZ 2023' with Turkish special operations forces unit, Su Altı Taarruz (SAT) at Istanbul, Turkiye. The exercise is regularly conducted in Pakistan and Turkiye alternately.

The aim of the exercise was to strengthen military relationships, improve coordination & interoperability and exchange of professional expertise in Special Operations Forces (SOF) domain. During exercise several basic to advance level exercises were conducted. Exercise AYYILDIZ-2023 proved highly beneficial to enhance professional acumen of SOFs and is a testimony to the long lasting brotherly relations of the two countries. ❖❖



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CNS OPEN SHOOTING CHAMPIONSHIP

7th Chief of the Naval Staff Open Shooting Championship was held at Pakistan Navy Shooting Range, PNS BAHADUR, Karachi. Chief of the Naval Staff Admiral Naveed Ashraf was the Chief Guest on occasion.

Pakistan Navy clinched the title of CNS Open Shooting Championship 2023 with 35 Gold, 17 Silver and 13 Bronze medals whereas Sindh team secured the Runners up position. Almost 400 shooters from all over Pakistan participated in the week long Championship. Chief of the Naval Staff awarded medals and trophies to the winners of the championship and appreciated the efforts of organizers and support of sponsors and sports shooters from all over Pakistan to make the championship a success.

During the championship, a total of 27 events including 11 men, 5

women and 4 in youth categories were contested. In order to promote the game of shooting among youth and for interest of local sports shooting lovers, 7 events of Big Bore Pistol & Big Bore Rifle categories were also held which were non-scoring towards overall points of the championship.

Around 400 shooters from Pakistan Army, Pakistan Navy, Pakistan Air Force, ASF, Sindh, Punjab, Balochistan, FRA, HEC, Sindh Police and SSU Sindh Police teams and different shooting clubs from Karachi participated in the championship and displayed their skills in the sport of shooting. All matches were contested under the umbrella of National Rifle Association of Pakistan (NRAP) as per International Sports Shooting Federation latest rules and regulations. ❖❖





13TH CJCS OPEN GOLF CHAMPIONSHIP 2023



The closing and prize distribution ceremony of 13th CJCS Open Golf Championship held at Karachi Golf Club (KGC). Chief of the Naval Staff Admiral Naveed Ashraf graced the occasion as Chief Guest.

While speaking at the ceremony, President Services Sports Control Board, Rear Admiral Abdul Basit commended untiring efforts of KGC staff and organizers for seamless conduct of championship and congratulated the winners for their remarkable success. He lauded the high standards of game that provided exciting and quality entertainment to the participants. Rear Admiral Abdul Basit also appreciated sponsors in supporting game of golf and conduct of the championship.

The four day long Golf championship held by Joint Staff HQs in collaboration with Pakistan Navy, has become a quintessential event in golfing





circles. Categories included 72 holes for professionals, 36 holes each for senior & junior professionals, 54 holes for amateurs & ladies and 18 holes for juniors category. Event maintained the legacy of highest prize money golf event nationally wherein; more than 400

enthusiast golfers participated from across the country.

The ceremony was attended by distinguished guests from civil and military organizations including officers, sponsors, golfers and media fraternity. ❖❖



PAYING TRIBUTE TO

SHUHADA OF APS PESHAWAR

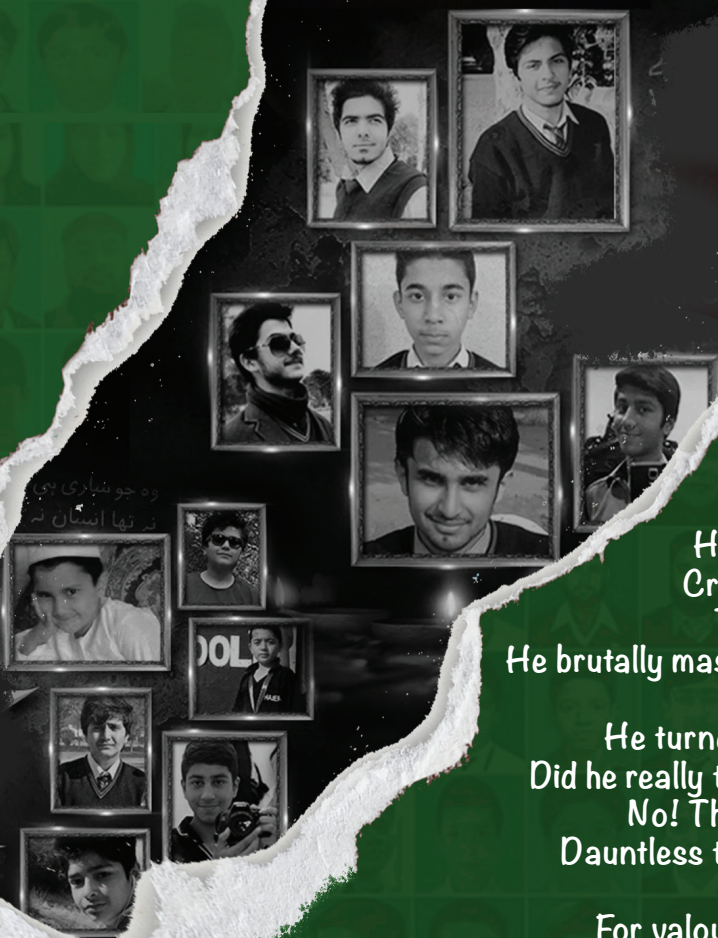


NEVER FORGET



DEC . 2014

SOME MARKS STAY
FOREVER



How weak can an enemy be
Crossing all limits of infidelity
To quench his fire of rage
He brutally massacred 149 souls at such a tender age

He turned a playground into a battlefield
Did he really think our children would easily yield?!
No! They don't give up without a fight
Dauntless they are with an overwhelming might

For valour and bravery is their code of life
And honour, their pride
They hail from a gallantry breed
Surrendering is not a warrior's creed

No amount of solacing can mitigate the pain
No revenge can avenge their stain
Though we mourn for their tragic demise
But Allah ordained for them a life of Paradise



S/Lt Myrah Zafar PN

اليوم الوطني

PNS JAUHAR CELEBRATES NATIONAL DAY OF KINGDOM OF BAHRAIN

National Day of The Kingdom of Bahrain was celebrated at PNS JAUHAR Gunroom Mess. Commander Karachi graced the occasion as Chief Guest. 74 x FCTs from Bahrain presently under going training at NSOTC, PNS RAHBAR, PNS BAHADUR and PNSL including 23 from PNS JAUHAR attended the ceremony. The ceremony commenced with national anthem of Kingdom of Bahrain. Country presentation was delivered by S/Lt Hazem Saad Yusuf from Bahrain. Commander Karachi addressed the audience and congratulated trainees from Bahrain on the national day. Chief Guest participated in cake cutting ceremony and informally interacted with FCTs from Bahrain. ❖❖



PNS TUGHRIL VISITS SALALAH PORT DURING REGIONAL MARITIME SECURITY PATROL

Pakistan Navy Ship TUGHRIL visited Salalah Port of Oman for logistics and fueling on return journey to Pakistan after completion of routine operational deployment at Gulf of Aden, as part of Regional Maritime Security

Patrol. During the stay at the port, the Commanding officer of the ship met with senior naval officials of Oman as part of Naval diplomacy and discussed matters of mutual interest. Navies of Pakistan and Oman enjoy very close relations

as both the countries share the same ocean space. Both the Navies cooperate with each other for law enforcement, search and rescue and medical evacuation amongst other areas of interest. ☒☒



Not.

by Erin Hanson

You are not your age,
Nor the size of clothes you wear,
You are not a weight,
Or the colour of your hair.
You are not your name,
Or the dimples in your cheeks,
You are all the books you read,
And all the words you speak,
You are your croaky morning voice,
And the smiles you try to hide,
You're the sweetness in your laughter,
And every tear you've cried,

You're the songs you sing so loudly,
When you know you're all alone,
You're the places that you've been to,
And the one that you call home,
You're the things that you believe in,
And the people that you love,
You're the photos in your bedroom,
And the future you dream of,
You're made of so much beauty,
But it seems that you forgot,
When you decided that you were defined,
By all the things you're not.

STRENGTHENING FRIENDSHIP AND BILATERAL COLLABORATION CHINESE NAVY DELEGATION VISITS PAKISTAN



ENHANCING TECHNICAL AND MUTUAL COLLABORATION... PN HOLDS SEMINAR WITH EGYPT NAVY AT PNS BAHADUR





**COMMISSIONING
PARADE** **120TH
MIDSHIPMEN &
28TH SHORT SERVICE
COMMISSION**



Course Commissioning Parade of 120th Midshipmen and 28th(SSC) was held at Pakistan Naval Academy (PNA), Karachi. Chief of the Naval Staff Admiral Naveed Ashraf graced the occasion as the Chief Guest. The commissioning contingent comprising 88 Midshipmen out

of which 60 were from Pakistan, 01 from Kingdom of Bahrain and 27 from Kingdom of Saudi Arabia along with 44 officers of SSC Course including 12 lady officers.

While emphasising on geo-strategic environment, Chief of the Naval Staff asserted that

peace and stability in South Asia will remain elusive unless the long-standing issue of Kashmir is resolved in accordance with the aspirations of its people and the UNSC resolutions. He urged the international community to play its role in cessation of human right violations and atrocities in the

illegally occupied Indian held Jammu and Kashmir whose citizens must be allowed to exercise their right of self determination.

During his address, the Naval Chief also emphasised the immediate need to end the sufferings in Gaza as indiscriminate use of force on Palestinian civilians is a gross violation of human rights and war crimes that must cease forthwith. He further reiterated that Pakistan would continue its diplomatic, moral and principled support to Palestinians and urge for a just, comprehensive and enduring solution to the Palestinian question, in line with relevant UN resolutions. He added that Pakistan looks forward to a stable and secure Afghanistan; which is a key to regional integration, growth and prosperity.

The Chief Guest felicitated the commissioning term and their

parents. He commended the parents for instilling a spirit in their children to serve the nation, which ultimately led them in joining this prestigious Service. He also lauded Pakistan Naval Academy for imparting quality training and expressed his hope that cadets from friendly countries trained at PNA will serve as our brand- ambassadors to enhance bonds of endearment and affinity. Chief of the Naval Staff also advised the youth on new dimensions of warfare, which is the use of social media for disinformation, that has become an essential segment of fifth generation warfare.

Later, Chief Guest gave away awards to the distinction holders. The prestigious Quaid-i-Azam Gold Medal was awarded to Lt Muhammad Talha Masood PN for his overall best performance. Midshipman Ayan Yameen claimed the coveted Sword of Honour, whereas Midshipman Sanaullah

Saefer clinched the Academy's Dirk. Officer Cadet Abdullah Waheed was awarded Chairman Joint Chiefs of Staff Committee Gold Medal, Officer Cadet Sultan Abdulrahman Hamad Saleh Alrowaiei received Chief of the Naval Staff Gold Medal while Commandant Gold Medal was awarded to Officer Cadet Asia Safdar from Short Service Commission Course. Proficiency Banner was claimed by Fox'I Squadron.

Earlier in his welcome address, Commandant Pakistan Naval Academy Commodore Muhammad Khalid highlighted the main characteristics of academic and professional training afforded to Pakistani as well as friendly countries cadets.

The parade was attended by senior civil, military officials and parents of cadets. ❖❖



NAVAL LENS INTERNATIONAL FEATURED NEWS



RENEWABLE- POWERED UNCREWED SURFACE VESSEL (USV) OCIUS BLUEBOTTLE

The Bluebottle is designed and manufactured by Sydney-based Ocius Technology. The solar-wind or wave-powered vessel uses a retractable rigid sail to provide wind propulsion. Photo-



electric cells on the sail can drive its motor. In the absence of sunlight and wind, the Bluebottle has a unique flipper and rudder device to steer and propel itself. It has a top speed of five knots and the ability to operate at sea indefinitely



in sea states up to 7 (wave heights of six to nine metres). Sensors allow both safe and effective control of the system and identification of other vessels. Sensors include radar, and electro-optical and infra-red cameras.

NEW STEALTH SUBMARINE

CHINESE SUBMARINE IS FIRST TO EXPLOIT NEW STEALTH TECHNOLOGY



China's latest non-nuclear submarine, the Type-039C Yuan Class, features a distinctive angled sail. We can now be confident that this is part of a sonar stealth technology. Other countries are also pursuing this general technique, but China is the first to field it. The Yuan-class, their latest non-nuclear powered attack type, is the most numerous class of AIP (air-independent power) submarine in the world. And now these have been seen with new and unusually shaped sails, hinting at the implementation of advanced technologies.

Courtesy:
www.navalnews.com

PN RECKONER IN DECEMBER

Source: PN History & Archives Centre

- Dec 01, 1949:** The first ever Mechanical Training Establishment (MTE) in the RPN setup as HMPS KARSAZ at Manora Island.
- Dec 16, 1958:** CH class frigate, (ex-HMS Charity) was commissioned at Portsmouth as PNS SHAHJAHAN (D-164).
- Dec 1959:** The first multi-national maritime exercise under CENTO, MIDLINK-1 was held in Karachi. (Ships and aircraft from the USA, UK, Pakistan, Iran, Turkey and Iraq participated).
- Dec 01, 1969:** The first of the three Daphne class submarines built for the Pakistan Navy by M/ s Arsenal De Brest of France was commissioned as PNS/M HANGOR(S-131).
- Dec, 1969:** The Pakistan Navy Education Trust established its first School.
- Dec 16, 1970:** The Pakistan Naval Academy (PNA) was commissioned as PNS RAHBAR at Manora Island.
- Dec 29, 1970:** The depot unit of the Submarine Service was commissioned as PNS ABDOZE at PN Dockyard.
- Dec 04, 1971:** Submarine PNS/M GHAZI (S-130) met an accident and sank in the approaches to the Indian Naval Base at Visakhapatnam, Bay of Bengal.
- Dec 04, 1971:** The destroyer PNS KHAIBAR (163) and minesweeper PNS MUHAFIZ (163) lost after being hit by missiles while on patrol in the Arabian Sea during the 1971 India-Pakistan War.
- Dec 09, 1971:** Indian Navy ASW Frigate INS Khukri was sunk by PNS/M HANGOR (S-131), 30 NM west of Diu Head. This was the first ever sinking of a man of war by a submarine after World War II.
- Dec 16, 1971:** Upon termination of hostilities in the eastern theatre, 1500 Naval personnel (Officers, CPOs, sailors and civilians) were taken as Prisoners of War.
- Dec 16, 1971:** Patrol Craft PNS RAJSHAHI (P-140) broke through the Indian Naval blockade of Chittagong and arrived in Penang, Malaysia on 21 December 1971.

- Dec 31, 1981:** Navigation and Direction (ND) School shifted from PNS HIMALAYA to a newly built training complex near KARSAZ. The complex was later commissioned as PNS BAHADUR.
- Dec 26, 1982:** The first Type 908 X-Craft constructed indigenously by PN Dockyard launched.
- Dec 17, 1986:** Installation commenced of the Vulcan Phalanx close-in weapon system, Harpoon Missile System and Argos ESM Suite on the Gearing class destroyers TUGHRIL (D-167), TAIMUR (D-166) and ALAMGIR (D-160).
- Dec 26, 1993:** Electronic Warfare (EW) School was established at PNS BAHADUR.
- Dec 06, 1996:** The first of the three P3-C Orion aircraft acquired from the United States arrived at PNS MEHRAN and was inducted into the 28 Squadron of the naval air arm.
- Dec 21, 1999:** The first of the three Agosta 90B submarines joined the PN Fleet.
- Dec 12, 2003:** The 2nd Agosta 90B Class Submarine was commissioned as PNS/M SAAD (S-138).
- Dec 11, 2004:** Hovercraft & Military Assault Boat (MAB) Inducted in Pak Marines.
- Dec 19, 2009:** The second Sword Class F-22P Frigate PNS was commissioned as PNS SHAMSHEER
- Dec 13, 2016:** Naval Task Force-88 was raised for the protection of CPEC and Gwadar Port.
- Dec 05, 2017:** A Maritime Patrol Vessel built for the Pakistan Maritime Security Agency (PMSA), was launched at (KS&EW).
- Dec 09, 2021:** On the occasion of the Golden Jubilee of HANGOR Day, the steel cutting of PNS/M TASNIM 5th HANGOR Class Submarine was held at (KS&EW).
- Dec 04, 2021:** PMSS KOLACHI (144) induction in Pakistan Maritime Security Agency.

BOOK REVIEW

GWATAR BAY TO SIR CREEK

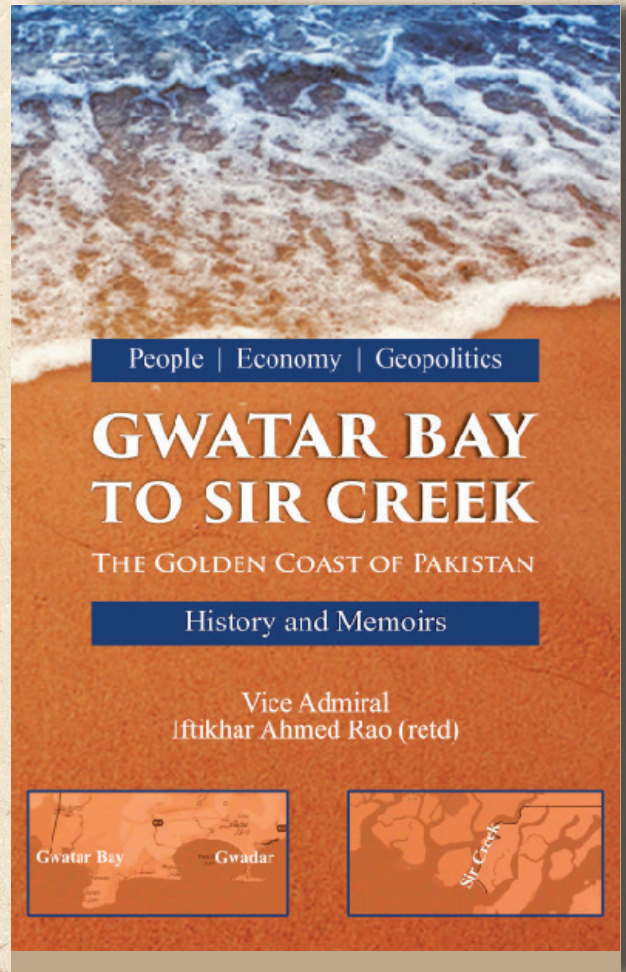
Review by: Cdre Aitazaz Khalid

The author, Vice Admiral (Retd) Iftikhar Ahmed Rao HI(M) is an ex-naval officer with thorough background knowledge in maritime affairs. He is also the author of the book "Elements of Blue Economy" published in 2020, encompassing all essential elements of maritime sector and is considered as a reference document in maritime segment in Pakistan.

The book "Gwatar Bay to Sir Creek: The Golden Coast of Pakistan; History & Memoirs" is covered in three sections with 15 chapters. The first part, "Makran - A Journey Through History", the author explores the west coast of Pakistan, highlighting its natural beauty and potential tourism industry it can generate. While describing the history, author in a very chronological order narrates that how over the centuries region has been influenced by rulers like Alexander the Great, ancient Hindus, Arab and Central Asian Muslims, Mongols and later Baloch tribes who established the Khan of Kalate dynasty and later Makran state in 18th century.

The author in detail discussed about the true ownership of Gwadar port; being at that time part of State of Makran. The city and its port had a rough political history between the Khan of Kalate and Sultanate of Oman in the late 18th century. In 1784, then Khan of Kalate provided refuge to Omani Sultan, Sultan bin Ahmed seeking for asylum after the conflict over the throne within royal family. As a gesture of goodwill, locally called "mahmannawazi", Khan of Kalate shared Gwadar half of revenue as maintenance allowance, till he returned to Oman in 1792. The British East India Company, who by that time became a strong political and military power in Indian Sub-Continent in order to safeguard their own interest in the region used their influence and allowed Oman to control Gwadar port by entering into various agreements. The British by these agreements bounded Sultan of Oman not to accede any part of Oman to anyone except British. After independence in 1947, Pakistani successive governments attempted to reclaim the port through diplomatic negotiations with Oman and the British. Pakistan acquired Gwadar on 08 September 1958, paying around 2,700.00/-British pound to the Sultan of Oman.

In the second part of the book, "**Bracing the challenges-Memoirs**", the author shares his experiences as young naval officers in the 1970s coastal belt of Makran, and later as helicopter pilot highlighting the



region's geography, socio economics, and cultural heritage. After independence, Pakistan's coastal belt lacked economic development and a strong naval presence due to landward-looking mentality of decision makers, The Navy on its part, apart from building strong naval set-up in region, also played a significant role in community services, developing high standards academic institutes and a state-of-the-art hospital. As author rightly narrates navy development in coastal belt from infancy to a formidable force in following words **"epic things start from humble beginnings, even as you move to greater heights, pay respect to your beginnings"**

The chapter Makran Coastal Highway gives details about 653-kilometer road connecting Karachi to remote coastal cities in region in order to bring economic activities in coastal belt. Its construction began in the early 2000s. The highway offers stunning views of the Arabian Sea, rugged cliffs and serene beaches including famous Kund Malir Beach, Hingol National Park, Princess of Hope rock formation, Hammerhead and Buzi pass.

The last few chapters under the overall heading of "Command and Humility" discusses raising the new Coastal command in navy and how it attributed to overall defence of the coast line stretching at west from Jiwani in Balochistan to the east in volatile Sir Creek area in Sindh. As author rightly says that **"every organization need to review their set-up as things change due expansion or change in the operational environment"**.

The book further highlights the beauty of the Sindh coast in east Pakistan, Manora Island, and the Arabian Sea while discussing the environmental imbalances caused by mangrove forest (the seventh largest in the world;) decline and threats to the unique Indus Delta biodiversity.

The chapter on Sir Creek, traces the land dispute between Sindh and Kutch states since 1907, digs into historical accords, the 1965 Run of Kutch conflict between India and Pakistan and the UN Tribunal's resolution in 1965. The author uses maps and authentic historical references to provide a clear account of the issue and Pakistan's stance on it, making it accessible to even common layman.

Author has dedicated the final chapter to the construction of marine canal by Pak Marines in 2005 in Sir Creek area. He said that the topic was very dear to his heart, as it related to construction of a canal to facilitate the local fishermen to safely navigate for fish-catching. The author being Commander Coast spearheaded the project. The canal, built by Pak Marines was constructed to access the fish-rich Uthanjo darya creek, which was difficult to access from the Pakistani side due to its marshy terrain. Pak Marines constructed the canal in marshy land in the scorching heat of August and September using only shovels. Later, this effort by navy also received national appreciation on national media appraisal as published in Dawn newspaper on February 09, 2012. "Canal to help fishermen avoid Indian waters" This book is an amalgamation of multiple disciplines related to social science subjects i.e. history, cartography, topography, anthropology, sociology, geography, defense and strategic studies, international relations, economy and law. The author's extensive bibliography showcases his research, making it a valuable reference for future studies. This book should be essential read compulsory read for development policy practitioners, for all the diplomats and all the commercial stakeholders who are looking to invest in Pakistan's coastal areas. ❖❖



PREVENTION OF HEART DISEASES THROUGH LIFESTYLE MODIFICATION

Chronic non-communicable diseases are assuming an increasing importance among the adult population in both developed and developing countries. The prevalence of chronic diseases is showing an upward trend in most countries and for several reasons this trend is likely to increase in coming years. Amongst non-communicable diseases, cardiovascular/heart diseases at present are one of the leading causes of death in developed countries. Recent studies have shown that changes in lifestyle and behavioral patterns may favor the onset of chronic diseases.

Hence, a large percentage of non-communicable diseases are considered to be preventable through modification of risk factors (factors that make occurrence of a disease more probable).

Identification of risk factors and promoting healthy activities aimed at primary prevention play a significant role in the control of chronic diseases. These risk factors play a significant role in non-communicable disease related morbidity and premature mortality. Understanding risk factors is crucial for development of effective strategies for disease

prevention and management. "Risk factors" include both non-modifiable (which cannot be altered) and modifiable (which can be changed or controlled) factors. Non-modifiable risk factors for heart diseases include age, gender, family history, genetic factors, personality type etc. Modifiable factors include cigarette smoking, high blood pressure, elevated serum cholesterol, diabetes, obesity, sedentary habits, stress, alcohol consumption, etc.

Preventing heart diseases through lifestyle modification is a crucial aspect of maintaining



cardiovascular health. Adopting healthy lifestyle may lead to significant reduction in heart-related issues. Below are some key lifestyle modifications that can help prevent incidence of a heart disease:

Healthy diet

Consumption of a well-balanced diet rich in fruits, vegetables, whole grains, lean proteins and low fat dairy products may reduce the risk of developing heart diseases, Limiting intake of saturated and trans-fats, cholesterol, sodium and added sugars is also beneficial.

Maintain healthy weight

Keeping one's BMI within healthy range by losing excess weight reduces the strain on heart thus, by managing weight the risk of obesity-related diseases can be reduced.

Regular exercise

Regular exercise such as brisk walking, jogging, swimming or cycling is recommended. Aim for at least 150 minutes of moderate-intensity exercise per week.

Quit smoking and alcohol

Consumption Quitting smoking and alcohol consumption can improve heart health and lower the risk of heart disease.

Manage stress

Chronic stress contributes to heart diseases therefore, practicing stress-reducing techniques such as meditation, yoga and deep breathing exercises may be helpful.

Adequate sleep

Lack of sleep can contribute to various health issues including heart diseases.

Control blood pressure

Monitor and manage your blood pressure through lifestyle changes and through medicines as prescribed by a healthcare professional.

Manage diabetes

Uncontrolled diabetes can increase the risk of heart disease.

Monitor cholesterol

Lowering cholesterol by reducing intake of saturated fat and avoiding trans-fat is essential.

Regular health check-ups

Regular check-ups with healthcare providers for monitoring blood pressure, blood sugar levels, cholesterol levels and overall cardiovascular health is advisable.

Rapid expansion of evidence-based research over the past years has contributed sufficiently to clarify the role of healthy lifestyle in preventing and controlling premature morbidity and mortality caused by non-communicable diseases. Hence, it can be said that adopting healthy life style choices lead to healthy and graceful ageing and reduces healthcare costs associated with medical treatments, medications and hospitalization. Additionally, regular health check-ups and screening can help identify and manage risk factors, especially those that are non-modifiable. However, those who have existing health issues or are on medication should consult their healthcare provider before making significant lifestyle changes.

To conclude, it can be said that a healthy lifestyle is a powerful preventive measure against a wide range of diseases. By making informed choices regarding diet, physical activity, sleep and other lifestyle factors, individuals can take proactive steps to protect and improve their health over the long term. It is also worth mentioning that, a strong social support system plays an important role in motivation of individuals and is linked to better health outcomes therefore, engaging in activities such as group exercises or team sports can foster social connections which lead to mental and emotional well-being of an individual. ❖❖



*Surg Lt Cdr
Hina Mahmood*



CNS Corner and CNS Gallery

This gallery is dedicated to the digital display of incumbent CNS and former Chiefs of Pakistan Navy. CNS Corner has been designed to display the formal and operational activities of the incumbent CNS. A large portrait of present Chief of the Naval Staff with profile is displayed in the centre. The corner includes 02 x LED TV, installed to display the current CNS activities and



the PN activities. CNS Gallery has 11 x digital corners which are dedicated for Ex-Chiefs of the Naval Staff covering the activities of their tenure in pictorial form.

- **Main Building FACADE**
- PMM main building FACADE and its area around the entrance of main building has been upgraded by the replacement of old facade tiles with new design.
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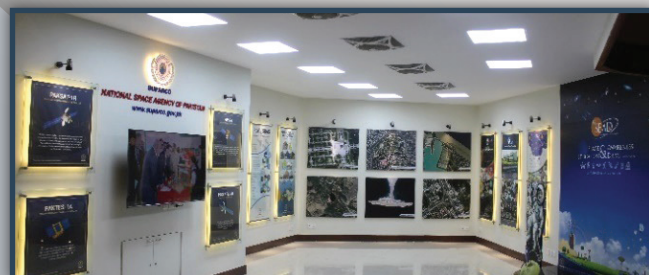
Quaid Corner

Quaid Corner has been upgraded to display the association of the Quaid-e-Azam with the Pakistan Navy. The main exhibits include different paintings, memoranda and objects which were used by Quaid-i-Azam on his visit to different Naval units.

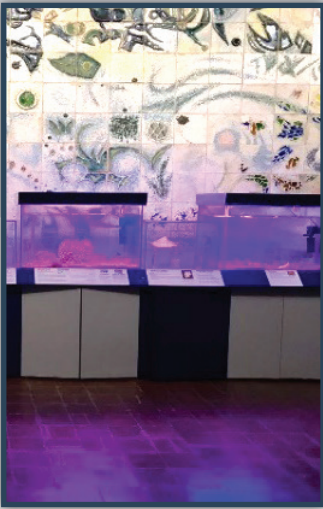
- **Marine Life Gallery**
- Pakistan Maritime Museum (PMM) is the only museum in Pakistan which is now displaying live and preserved
-



PAKISTAN MARITIME MUSEUM WITH NEW LOOK



Museums worldwide play a vibrant role in the service of society by informing the masses about cultural heritage. Cultural heritage is central to protecting our sense of who we are. It gives an irrefutable connection to the past that allows us to identify ourselves and deepen our sense of unity, belonging and national pride. We are proud Pakistanis who hail from a region where the history of seafaring is about 4000 years old, dating back to the heydays of the Indus Valley Civilization. So, in terms of maritime activities an abundance of attributes have existed in this region for ages



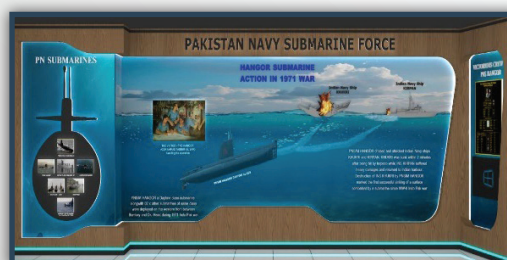
Marine life specimens for general public. Marine life collections consist of 4x sea life Aquariums, 14x fresh water aquariums and 3x pedestal showcases for preserved specimens that feature a large variety of Pakistan's aquatic life.

Karachi Shipyard & Engineering Works Corner PMM has the honour to display the only Shipyard and oldest heavy Mechanical Engineering facility of Pakistan which was established in 1956. The corner is based on hexagonal display boxes, which exhibits the development work of KS&EW through models and pictorial views in different portfolios like Ship Building, Ships Repairs & Refurbishment and Shipyard Training School.

which are displayed in Pakistan Maritime Museum. Pakistan Maritime Museum was established in 1997 to preserve the maritime heritage of Pakistan. It shows the commitment of the Pakistan Navy towards nation building by apprising the visitor's knowledge about maritime history, Pakistan Navy's heritage and its landmark achievements. The maritime zone is considered as the backbone of coastal states and about 95% of the world trade takes place through seas. Pakistan Navy not only defends and secures the coastlines and territorial boundaries of the sea but is also committed to enlighten the people of Pakistan about the significance of maritime affairs and its role in the economic growth of the country.

To retain their historical value, museums need upgradation so that they stay relevant and attractive for visitors. For this purpose, museums should keep up in-line with today's fast changing world in term of development, advancement and evolving methods of exhibition in museums. Likewise has been the progress at the PMM.

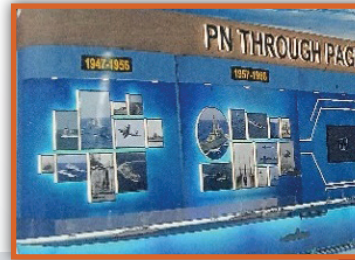
SUPARCO Corner at PMM has been up-graded to display major achievements made by the agency in various fields such as research & development, space science, space technology and its peaceful application by SUPARCO through collecting data via satellites.



Establishment of Submarine Wall
At the center of the display, PN Submarine Wall exhibits the heroic action of PNS/M HANGOR during 1971 Indo-Pak War. This was the first ever sinking of a man of war by a submarine, post the World War

II. Moreover, the wall also displays the development of PN Submarine Force through 3D models of all classes of Submarines and Midgets.

- **Establishment of History Gallery (Work in Progress)**
- Decade wise development of Pakistan Navy since 1947 is to be displayed in this gallery through photographs and models of PN Ships, Submarines and Aircrafts acquired and commissioned during various times. It will also display the developments of PN Establishments.
- The gallery is designed in such a way that it will give an impression of marine life alongwith submarines and ships operating at sea.

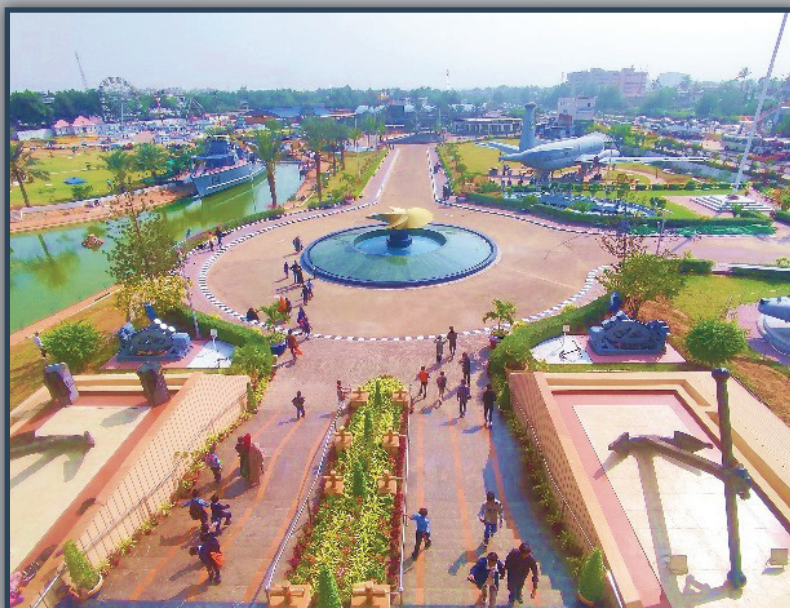


- **Recreational Park** The concept of edutainment is fully implemented at PMM with the establishment of recreational park. Now, the visitors can learn and entertain at the same venue through different kind of rides & swings alongwith their families as international standard of swing and rides has been arranged.

Souvenir Shop The museum has put up a souvenir shop on the right side of the main exhibit building. Now, the visitors can buy souvenirs, memorabilia, and a variety of items & gifts from the shop. This shop facilitates the foreign delegations as well while their visit to Karachi.



of the museum and symbolizes an important maritime atmosphere within the premises. Boats are also arranged in lake for the visitors. The exhibits in the lake





Ex-PNS/M HANGOR is a must visit place in PMM. This is the only place in Pakistan for general public where one can get an experience of submarine. Keen spectators may observe its working mechanism, its size and functioning, the life under sea, may look through its periscope and many more things. Overall, the visitors, specially the students learn a lot through visiting PMM as documentaries are also arranged for them in Auditorium, depicting the role of Pakistan Navy to keep the SLOCs open, PN activities in coastal area for medical, education and rains/ flooding situation etc.

Open-Air Exhibits

The open-air of the museum is a large space edutainment, relaxation and amusement through public interaction. The lake is an essential element



such as minesweeper ship (Ex-PNS MUJAHID), historic submarine (Ex-PNS/M HANGOR), Ex-CNS Barge, and midget submarine also enhance its grace. The other main outdoor exhibits include a replica of the Manora Light House, Atlantic & Lynx aircrafts, UQAB UAV II, different caliber vintage guns, old generation torpedoes, saluting guns & coffin carriers of Quaid-e-Azam & Liaquat Ali Khan, radars and anchors, etc. A visitor can board a real life minesweeper and observe its exclusive equipment and operational devices used for destroying underwater mines. Visitors can take a step inside Atlantic LRMP Aircraft and can experience a piece of living history. Visitors can also observe the mechanism of a gun mounting and can climb a replica of the Light House. ☒☒



Autumn cleaning of the Naval Residential Complex

