

# NAVY NEWS

ABC Certified

January 2023



Multinational Maritime Exercise

# AMAN 2023



## Multi Nations One Resolve

**“TOGETHER FOR PEACE”**



# NAVY THROUGH HISTORY

## Ethiopia's Emperor visit to PNS BADR

His Imperial Majesty, Haile Selassie I, Emperor of Ethiopia visited PNS BADR at Massawa, Ethiopia on 16 February 1974. PNS BADR (Captain T K Khan, later Admiral in command) was privileged to be among three ships to be allocated an alongside berth from 10 foreign navies representing respective Navies at the 25-Year Navy Day Celebrations of the Ethiopian Navy. A 21 Gun salute fired by BADR boomed to announce the arrival of the Emperor, who was received onboard by the CO and H.E. Ambassador of Pakistan to Ethiopia. He then inspected a forty-eight men guard and band paraded on board. Though in his

eighties the Emperor refused to accept anybody's help in climbing the gangway ladders, before proceeding to the captain's cabin.

The Emperor and Ambassador called onboard CO BADR, the Emperor expressed his appreciation over smartly turned out ship's company and finest looks of PNS BADR.

A fairly prolonged and deathly hush was shattered suddenly by the 11 AM chime of the clock in the captain's cabin at which the Emperor looked towards it with a genuine look of interest and a smile on his face. It was discovered later that one of his pet hobbies is

a collection of musical clocks.

A cup of strong black coffee and freshly prepared Pakistani Sweet 'Khajja' was served along with dates to the emperor – followed by the presentation of a Naval Sword to H.I.M. to the Emperor on behalf of our Chief of Naval Staff.

The Emperor appeared to be pleased by this gesture because he smiled for the second time since stepping on board. Thereafter His Imperial majesty got up and slowly made his way to the gangway and proceeded to visit Imperial Iranian Ship ZAAL which was secured on the adjacent berth.



Source: PN History & Archieve Centre



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26<sup>TH</sup>



# CHIEF OF THE NAVAL STAFF OPEN GOLF CHAMPIONSHIP







**M**uhammad Shabbir Iqbal won the title of 26<sup>th</sup> Chief of the Naval Staff Open Golf Championship. The prize distribution ceremony of the championship was held at Karachi Golf Club (KGC). Chief of the Naval Staff Admiral Muhammad Amjad Khan Niazi graced the occasion as Chief Guest.

The four days long Golf Championship held from 29 Dec 22 to 01 Jan 2023, is considered a major event in golfing circles. The categories in the championship included 36 holes each for KGC Professionals/ Caddies, Senior Professionals, Junior Professionals, Seniors and Ladies. 18 holes matches were played for Juniors (Cat A & B), 9 holes for Veterans and 72 holes each for Amateurs & Professionals. Several prizes were awarded to the winners of different categories. More than 600 enthusiast golfers participated in the championship that attracted golfers across the country.

While speaking at the ceremony, Chief of the Naval Staff appreciated KGC staff and the organizers for seamless conduct of the championship and congratulated the winners for their remarkable success. Naval Chief lauded the high standards of the game that provided exciting and quality entertainment. He appreciated the sponsors for their support and conduct of the championship.

The Ceremony was attended by various civil and military dignitaries including officers, organisers, sponsors, golfers and media fraternity. ❖❖





# GLIMPSES

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THE NAVAL STAFF  
OPEN GOLF  
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# TURGUTREIS-VII

## PN-TN JOINT EXERCISE





**T**urkish Navy Ship TCG BURGAZADA visited Karachi port and participated in bilateral naval Exercise TURGUTREIS – VII. The Turkish ship port called Karachi harbour and was welcomed by senior officers of Pakistan Navy alongwith officials of Turkiye Consulate.

During stay at port, the Commanding Officer of Turkish Ship called on Commander Pakistan Fleet and matters of mutual interest & bilateral collaboration were discussed. In port activities, joint professional interactions including planning of bilateral exercise at sea, table top discussions on professional topics were carried out with an aim to

strengthen mutual cooperation and integration between the two navies.

Besides, sports & social events wreath laying at Mausoleum of Quaid-e-Azam was also carried out.

On completion of port visit, PN & Turkish Naval ship participated in bilateral Exercise TURGUTREIS-VII and conducted joint patrolling in North Arabian Sea to further hone the professional skills and enhance interoperability. The exercise comprised of various naval operations including defence against Asymmetric Attacks, Visit Board Search & Seizure (VBSS), Air Defence Exercises and Joint

Coordinated Patrol.

The visit of Turkish Navy Ship to Pakistan is a manifestation of strong bilateral ties between two countries and the exercise is a testimony of PN resolve towards regional peace and maintenance of order at sea. ☒☒

**PN & TURKISH NAVAL SHIP PARTICIPATED IN BILATERAL EXERCISE TURGUTREIS-VII AND CONDUCTED JOINT PATROLLING IN NORTH ARABIAN SEA TO FURTHER HONE THE PROFESSIONAL SKILLS AND ENHANCE INTEROPERABILITY**





# Pakistan Navy's COMMAND & STAFF CONFERENCE

**C**ommand and Staff Conference of Pakistan Navy held at Naval Headquarters, Islamabad. The Conference was chaired by Chief of the Naval Staff, Admiral Muhammad Amjad Khan Niazi.

During the conference, matters related to geo strategic milieu, national security, operational preparedness, training and welfare of troops were reviewed. Comprehensive briefing on important on-going and future developmental projects of Pakistan Navy was also given to Chief of the Naval Staff.

The Naval Chief expressed confidence over combat readiness and significant contributions of the Navy in maritime domain. He

emphasized on strengthening maritime security and maintaining combat readiness so as to effectively respond to any aggression against Pakistan.

The Naval Chief lauded the initiatives undertaken towards capability development through acquisition of emerging technologies. The Admiral expressed full confidence over high state of operational preparedness of Pakistan Navy to meet all challenges while safeguarding the maritime frontiers of Pakistan. He also appreciated the efforts put in by Field Commanders along with civil administration and various philanthropist organizations in providing continuous assistance to flood affected population. ❖❖



**THE NAVAL CHIEF  
LAUDED THE INITIATIVES  
UNDERTAKEN  
TOWARDS CAPABILITY  
DEVELOPMENT  
THROUGH ACQUISITION  
OF EMERGING  
TECHNOLOGIES**





# NAVAL LENS INTERNATIONAL FEATURED NEWS



## ROYAL NAVY BUILDS DRONE IN FIRST FOR EXPERT SQUADRON



Sailors from 700X Naval Air Station have designed, built and tested their own drone. The large quadcopter called Walrus will be used as a testing platform for sensors and other payloads. It is part of a project that will see the squadron, based at Royal Naval Air Station Culdrose, be accredited manufacturer status. 700X NAS is the Royal Navy's expert unit in the research, training and deployment of remotely piloted air systems (RPAS). The squadron uses nearby Predannack Airfield as a centre of expertise for flights and training.

## INDONESIAN NAVY COMMISSIONS NEW HOSPITAL SHIP

**PT PAL Indonesia expanded Indonesian Navy's medical care capabilities with the completion of the second hospital ship**

This hospital ship can accommodate 12 different types of operations and is supported by two Ambulance Boats, two LCVP (Landing Craft Vehicle Personnel), and one RHIB (Rigid Hull Inflatable Boat).

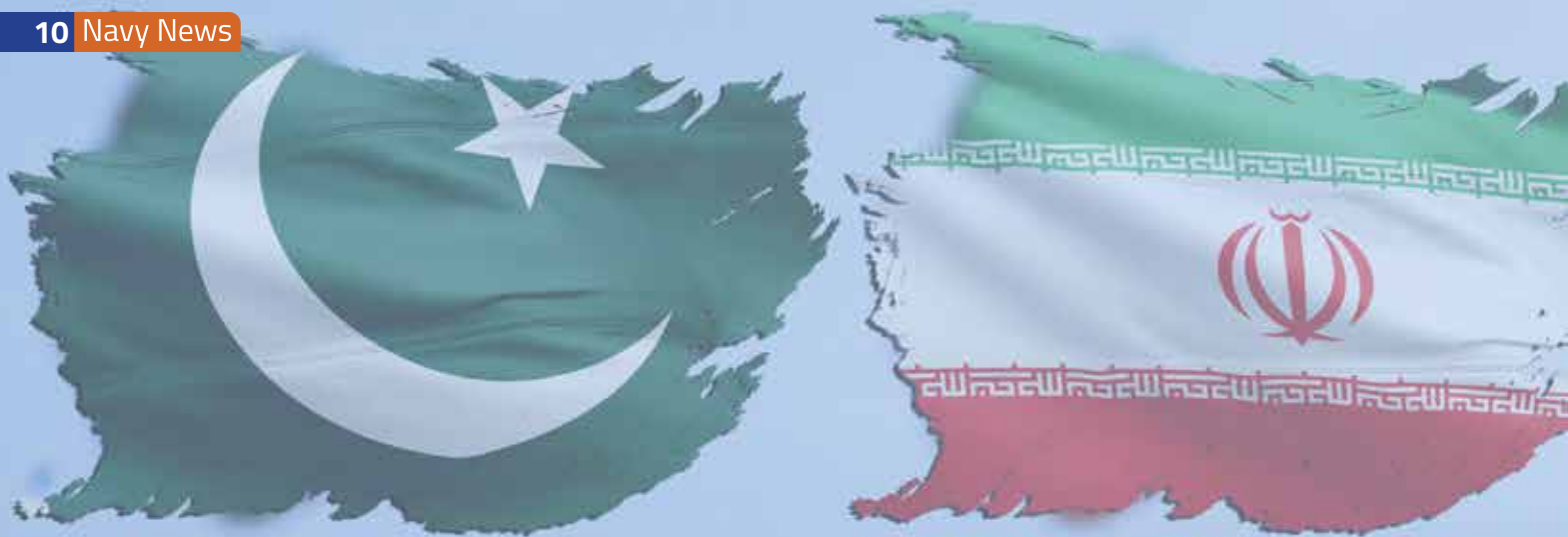


This 124-meter-long ship is outfitted with qualified health facilities such as an emergency room, inpatient and isolation rooms, radiology room, delivery room and baby room, clinic/poly, laboratory, blood bank, operating room, ICU and HCU, and can carry three helicopters with MTOWs of 11 tonnes each.



**Courtesy:**

[www.navalnews.com](http://www.navalnews.com)



# PAKISTAN NAVY IRANIAN NAVY PASSAGE EXERCISE







Iranian Navy ships and submarine port called Karachi and participated in Passage exercise with Pakistan Navy (PN).

Upon arrival at Karachi port, PN officials along with Iranian consulate Staff warmly welcomed the visiting flotilla and National Anthems of both countries were played as mark of respect.

The recent visit of Iranian Navy to Pakistan reaffirms joint efforts to promote regional stability and maritime security for protection of Sea Lines of Communication and Seafarers in the region. During stay at port, both navies held mutually rewarding professional interactions, exchange visits and table top discussions on matters of mutual interests. Towards

culmination of visit, passage exercise between the two navies was conducted to enhance naval cooperation.

The visit of Iranian navy ships to Pakistan is a manifestation of strong bilateral ties between two countries and resolve towards regional peace. ✕✕



# PN RECKONER IN JANUARY

Source: PN History & Archive Centre

- Jan 17, 1948:** All ships of RPN (except minesweeper Malwa) left Bombay for Karachi on their transfer to Pakistan.
- Jan 23, 1948:** Quaid-i-Azam Mohammad Ali Jinnah paid a formal visit to HMPS DILAWAR and addressed the officers and men of the Pakistan Navy.
- Jan 26, 1951:** HMPS SHAMSHER (F-392) and SIND (F-52) participated in the Golden Jubilee celebrations held in Sydney to commemorate Australia's 50 years as a dominion of the British Commonwealth.
- Jan 31, 1953:** Rear Admiral Haji Mohammad Siddique Choudri MBE became the first Muslim Pakistani C- in-C of the RPN.
- Jan 24, 1957:** Commissioning of the 1<sup>st</sup> Battle Class Destroyer PNS BADR (D-47) (former HMS GABBARD), acquired from the UK.
- Jan 17, 1963:** Mission Class Replenishment Fleet Oiler (Ex USS MISSION SANTA CLARA), acquired from the US Navy and commissioned as PNS DACCA (A41).
- Jan 12, 1970:** Second Daphne Class Submarine was inducted in the PN and commissioned as PNS SHUSHUK (S-132).
- Jan 30, 1970:** Depot unit of the PN Dockyard was commissioned as PNS PESHAWAR.
- Jan 18, 1974:** Fifth Pair of Shanghai Class Fast Patrol Boats commissioned as PNS KALAT (P-156), PNS LARKANA (P-157) and inducted in the 10th PATROL Craft Squadron.
- Jan 01, 1976:** Chief of the Naval Staff Admiral Muhammad Shariff became the first 4-star Admiral of the Pakistan Navy.
- Jan 17, 1977:** Last of the Daphne Class Submarines to be inducted into the PN was commissioned as PNS GHAZI (S-134), becoming the second PN Submarine (S-130) and third PN unit to carry the name GHAZI, the first being a Bangor Class Minesweeper in the early fifties.
- Jan 17, 1982:** First Fokker Friendship Turboprop F-27 aircraft inducted in the PN Fleet, leading to the formation of Two Seven (27) Squadron.
- Jan 1983:** Survey Vessel BEHR PAIMA was acquired from Japan and replaced PNS ZULFIQAR (F-262) for hydrographic surveys.



- Jan 1983:** Survey Vessel BEHR PAIMA was acquired from Japan and replaced PNS ZULFIQAR (F-262) for hydrographic surveys.
- Jan 01, 1987:** The Maritime Security Agency (MSA) came into existence. Ex PNS BADR and 4 Ex PN Gun boats formed the units of the force. MSS INDUS ( Ex PNS BADR was the HQ Ship).
- Jan 31, 1989:** The first pair of eight Brooke/ Garcia Class class frigates was acquired on lease from the USA & commissioned as PNS BADR (DDG-161) and PNS SAIF (F-264) at Charleston Naval Base, South Carolina USA. The ships were returned to US custody in November 1993 and Jan 1994 respectively on expiry of the period of their lease.
- Jan 20, 1990:** Vulcan Class Repair Ship, former USS HECTOR, acquired on lease from US and commissioned as PNS MOAWIN (A-20). The Ship was returned to US custody on expiry of the period of its lease in March 1994.
- Jan 28, 1993:** PN ships DACCA (A-41), MOAWIN (A-20), and TUGHRIL (D-167) transported a Pakistan Armed Force contingent, heavy equipment, vehicles, and stores to Mogadishu, Somalia for participation in UN Relief Operation.
- Jan 03, 1997:** The President, Mr. Farooq Ahmed Khan Leghari, presented the National Standard to the 5th Submarine Squadron of the Pakistan Navy at PNS ABDOZE.
- Jan 28, 1997:** First indigenously constructed 'Tripartite' class MCMV PNS MUJAHID (M164) launched at PN Dockyard.
- Jan 2005:** The PN launched a humanitarian operation 'MADAD' to help Sonami Earthquake affectees stranded in & around coasts of Srilanka, Maldives & Indonesia. PNS TARIQ (D-181), KHAIBAR (D-183), MOAWIN (A-20) & NASR (A-47) as well as SSG(N) & medical teams participated in the Operation.
- Jan 02, 2006:** Four submarines of the Pakistan Navy were decommissioned. They were the Daphne Class submarines HANGOR (S-131) SHUSHUK (S-132), MANGRO (S-133), and GHAZI (S-134).
- Jan 2009:** First Small Tanker cum-Utility Ship (STUS) to be built for the PN launched at KS & EW Karachi.
- Jan 25, 2012:** 2<sup>nd</sup> Battalion of the Force Protection Brigade of the Pak Marines was raised and inaugurated.
- Jan 18, 2013:** 3<sup>rd</sup> Battalion of the Force Protection Brigade of the Pak Marines was raised and inaugurated at Gwadar Port.
- Jan 04, 2020:** An induction ceremony was held at Karachi to induct state-of-the-art Maritime Patrol Aircraft (MPA) and tactical Unmanned Aerial Vehicles (UAVs) in the PN Fleet.
- Jan 30, 2021:** The launching ceremony of 2nd ship of Type-054 Class Frigate constructed for Pakistan Navy, was held at Hudong Zhonghua Shipyard Shanghai, China.







# AMAN 2023

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## PEACE & STABILITY



## TOGETHER FOR PEACE



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Ijlal Khan

# EXERCISE AMAN

## A COMMON GOAL TO SECURE SEAS

**T**he Indian Ocean Region (IOR), which is bordered by 30 states, is one of the busiest maritime zones and is known for being the centre of economic, political, and strategic activities that have a significant impact on the geopolitics and maritime security of the region. Nearly 80% of global energy resource commerce is permitted under the IOR. This region is filled with crucial SLOCs, competing and conflicting regional and extra regional state interests, emerging patterns of state interest convergence and divergence, and tapping and exploring marine resources both living and non-living, all of which create a number of vulnerabilities for this region's littorals in terms of maritime security.

In fact, the maritime sector has very distinct, intricate, and intense realities; as a result, comprehensive approaches and methods are

required to address these security risks and problems. The states face a variety of non-traditional security risks as well as traditional ones along their maritime borders, which adds to the environment's vulnerability, difficulty, and complexity. These threats are quite varied and include external aggression and trespassing, illegal passage of prohibited vessels/warships, damage to non-living marine resources, theft and smuggling of marine resources, including sand and gravel among others, gun running, kidnapping for ransom, high jacking of boats and ships, piracy, narco-terrorism, and strategic maritime terrorism. Similarly, issues in the maritime sector become serious when state involvement increases and the geopolitical landscape of the maritime regions undergoes paradigm adjustments.

Pakistan is the country which is not only rimming the Indian Ocean but due to its geo-strategic location, it has been quite significant in the regional geopolitics as well as vulnerable due to number of reason

including its immense maritime potential, both on-shore and off the shore as well as its vast maritime territory as the Exclusive Economic Zone (EEZ) and the Continental Shelf; the busiest SLOCs passing through its EEZ and the Continental Shelf; closer proximity with the three main choke points, Strait of Hormuz, Bab-ul-Mandeb, and Mozambique Channel; strategic concerns due to increased role of regional, sub-regional and extra regional actors in the IOR like India-Iran strategic deal, Indo-US strategic deal, the US-Naval presence at Bahrain, establishment of QUAD, intercontinental organized criminal networks and illicit cartels, and piracy.

Due to such vulnerabilities, the collaborative maritime security mechanisms are the most appropriate defense for Pakistan constructed upon the fundamental elements of region as area of interest, common security goals, cooperative security and collective arrangements. Pakistan has always been an avid supporter of regional peace and stability.



Pakistan's commitment to the principle of 'peaceful coexistence' and desire for greater regional harmony and cooperation is also reflected through Pakistan's armed forces participation in UN Peacekeeping missions, UN mandated Combined Maritime Task Forces 150 and 151, participation in regional and extra-regional joint bilateral and multilateral exercises. To demonstrate Pakistan's commitment to peace, contribute

towards regional maritime security and enhance cooperation and interoperability between regional and extra regional navies, Pakistan Navy took an initiative of holding Multinational exercise AMAN in 2007, which is being conducted biennially. Till to date seven exercises have been conducted and 8<sup>th</sup> exercise is planned in Feb 23 in which more than 50 countries are expected to participate.

The main objective of AMAN series of multinational exercises is to promote regional cooperation and stability, greater interoperability and to display a united resolve against terrorism and crimes in maritime domain including piracy. Whereas in sea phase, the participating navies attend the military drills with their surface and air assets, special operation forces, and maritime teams. They are involved in various activities, including maneuvers, weapon firing drills, maritime interdiction operations, flying operations, search and rescue exercises, and international fleet review-- all of this improves

Pakistan Navy's capability to combat nontraditional threats and improve the country's soft image in the international community.

Moreover, this time alongside AMAN-23, an important maritime conference is going to be held for the first time at Karachi expo center. Pakistan International Maritime Expo and Conference (PIMEC) is an initiative of Pakistan Navy which is being organized under the patronage of Ministry of Maritime Affairs in order to jump start development of maritime sector in Pakistan and spur Blue Economy. PIMEC is scheduled from 10 to 12 Feb, 2023 and the exhibition will bring together stakeholders and companies from diverse maritime fields to exploit and explore the potential of Blue Economy. It is actually to venture new chapter where we explore the true potential of much more that is to follow. Not only it will give us livelihood and vibrancy to our economy but also provide endeavors to mitigate climate change effects. ❖❖





# PIMEC 2023

## UPLINK BLUE ECONOMY: AN EFFORT FOR BLUE ACCELERATION

Dr Sehrish Qayyum

Economic activity in ocean is expanding rapidly, driven primarily by changes in global demography, economic growth, trade, rising income levels, climate changes, environment index and technology. Looking to 2030, many ocean-based industries have the potential to outperform the growth of the global economy, both in terms of value-added services, employment, as well as opportunities they offer. These industries include offshore wind, tidal and wave energy; offshore aquaculture; cruise tourism; maritime surveillance and marine biotechnology. The projections suggest that between 2010 and 2030 on a “business-as-usual” scenario basis, the ocean economy could more than double its contribution to global value-added services and products, reaching over US\$3 trillion by the end of the decade.

Increased pace of marine activities and development is titled as ‘Blue Acceleration’ by marine business experts. Strong growth is expected in marine aquaculture, offshore wind energy, fish processing, shipbuilding, and repair within a decade. Investing in an ocean economy clearly makes economic sense as it will employ approximately 40 million full-time equivalent jobs in business-as-usual scenario. Even Small Island Developing States (SIDS) through their exclusive economic zones





(EEZs) control some 30% of all oceans and seas. For example, Saint Lucia has a marine reserve the size of Germany, while Tuvalu has an EEZ 27,000 times of its land mass. The combined EEZs of Mauritius and the Seychelles represent an area bigger than India. Purpose of referring to these facets is prospect options for economic growth and investment under collaborative joint ventures among littoral and far of states. Joint ventures may serve in climate actions by utilizing vast volatile spaces for business as per targets set in COP26.

Pakistan being important littoral state of western Indian ocean is following global trends of blue acceleration. Country is blessed with 1000 Km long coastline from Sir Creek to Jiwhani and EEZ & continental shelf covering area of 290,000 sq km i.e., larger than combined area of two provinces i.e., Sindh and Khyber Pakhtunkhwa (KPK). Pakistan's coastal belt and extended maritime zone is replete with living and non-living oceanic resources such as hydrocarbons, minerals, renewable energy, and biotechnology options. Pakistan is continuously seeking international collaborations to create perfect blend of indigenous and foreign technologies to expand and strengthen its own activities. For the purpose, the first Pakistan International Maritime Expo & Conference (PIMEC) in February 2023 offers an ideal platform to uplink with major industrial and business sectors for economic transformation.

PIMEC 2023 is premier maritime

exhibition in the Asian subcontinent focusing on maritime sector and industry. It assures sustainable growth and prosperity as platform aims to gather stakeholders from diverse maritime industries for hydrocarbon extraction, coastal development, shipping and port infrastructure, fisheries, marine tourism, offshore renewable energy, aquaculture, seabed mining and marine biotechnology etc. This exhibition will showcase Pakistan's complete maritime potential with aim to focus on human wellbeing, social equity, and economic growth.

With run-away climate change and a global economy still reeling from the impacts of the COVID-19 pandemic, the investments by littoral nations in their ocean economies also strengthens their resilience to external shocks. But with limited resources they cannot do it alone. The business community, both local and international are critical partners. National economic growth is intimately tied to the success of ocean economy strategies by governments. Reformed maritime business strategies will impact related business sectors such as tourism, airlines, fisheries, shipping and emerging sectors such as biotechnology and ocean energy.

Pioneering efforts by Pakistan Navy – PIMEC 2023 will bring together governments and business representatives to seek solutions for current challenges i.e., financing and technology constraints in expanding the ocean economy. Furthermore, the forum will spur a new generation of ocean economy partnerships

between the global business community and governments ahead of the fourth United Nations Conference in 2024. PIMEC 2023 is not about business as usual but demonstrates that significance of ocean resources is not a zero-sum game. Conserving the ocean protects marine life and generates economic growth for maritime states and business communities alike.

Exhibition is a market appeal to expand existing market with face-to-face interactions and sharing token of interests. Focusing on maximum impact by highlighting unique facts of each project, resources and untapped areas will open potential door for investment in Pakistan. In term of PIMEC 2023 outcomes, development of specialized 'Maritime Business and Technology Zones' (MBTZs) along the coastline will increase employment options, reserving investments and will materialize idea of economic uplink with regional and international business sectors. Businessmen attached to marine resources and industry are welcomed to make this up to the minute step of Pakistan Navy successful. They can attract their links and relations from the industry and filed to host stall of their best product i.e., marine gemstones, sea shells, food items, and industrial products along with oil and resource extractors from deep sea areas. It is PN initiative to win by joining hearts and hands in all conducive environment. ☒☒





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NRTC Stands with Pakistan Navy for Multinational Naval Exercise AMAN-23, wherein regional and extra-regional navies across the globe participating to share experiences to promote regional cooperation and stability



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# PIMEC 2023

## PAKISTAN INTERNATIONAL MARITIME EXPO & CONFERENCE

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# OH! THE CRIES OF KASHMIR

They are slicing a piece of our ancestor's masterpiece,  
While slaughtering peace piece by piece;

They are separating children from their families;  
Filling their streets with blood and debris.

In the name of what? Their religion? Their beliefs?  
Is there no one who could see?

The tears in the eyes of Mothers and Sisters as they weep,  
Does no one hear at night the whisper of songs that are sweet;

Sung by the Mothers of Kashmir as they set their children to sleep,  
Telling them tomorrow they have to be stronger not weak.

Is there no one outside this battlefield who can speak;  
For Kashmiri Brethren in need?

Weren't we the nation to who had unity even in our heart beats?  
And what's senseless and scary is when they stand up to their enemies;

They are labeled the loonies,  
I think it's time to stand up to those soulless entities;  
Pray God for ease and defeat our real enemies!

Maria Saeed





**COMMISSIONING  
PARADE** **118<sup>TH</sup>** **MIDSHIPMEN** & **26<sup>TH</sup>** **SHORT SERVICE COMMISSION**





**C**ommissioning Parade of 118<sup>th</sup> Midshipmen and 26<sup>th</sup> Short Service Commission held at Pakistan Naval Academy, Karachi. Chief of Army Staff (COAS) General Syed Asim Munir was the Chief Guest on the occasion.

Upon arrival at Pakistan Naval Academy, the COAS was received by Chief of the Naval Staff Admiral Muhammad Amjad Khan Niazi. Addressing the parade, COAS congratulated the commissioning term for successful completion of

training and becoming guardians of maritime frontiers of Pakistan. COAS said that maritime domain is continuously shifting, mainly due to technological advancement, herein only those navies would prevail and prove effective that





would align with professionalism and modern trends of warfare. COAS appreciated Pakistan Naval Academy for imparting quality education not only to Pakistani cadets but to the cadets of friendly countries as well. COAS advised young officers as future leaders to lead by their conduct, character, professional acumen and foresight.

COAS stated that Pakistan is passing through one of her most critical junctures and this requires development of national consensus by all stakeholders to sail through the confronted challenges of economy and terrorism.

Later, Chief Guest gave away awards to the prize

winners. The prestigious Quaid-i-Azam Gold Medal was awarded to Lt Kashif Abdul Quyyom PN for his Overall Best Performance. Midshipman Naufil Malik was awarded the coveted Sword of Honour for his overall best performance. ❖❖





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