

54A Frigate of Pakistani Navy

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Abstract

The Pakistan Navy is a relatively weak navy in terms of scale and quality, but the strength of the Pakistani navy has recently been strengthened. The new Pakistani 54A Frigate has greatly improved the combat capabilities of the Pakistani Navy and help the Pakistani Navy better maintain its maritime security interests.

Keywords

Pakistani Navy; 54A Frigate.

1. BACKGROUND INFORMATION

The Pakistan Navy was established in August 1947, with 14 ships and more than 4,000 officers and soldiers. After decades of development, the Pakistan Navy has 25,000 officers and soldiers, dozens of ships of various types, and dozens of aircraft of various types.

At present, Pakistan's coastal cities have stepped up their guards, and they have also strengthened their defense preparations in the direction of Karachi [4]. Karachi is the largest city and the most important port in Pakistan, as well as the largest base of the Pakistani navy. Its economic and strategic status is very high. India's large-scale attack on this area will surely bring huge losses to Pakistan.

"To provide security for maritime trade, India's fleet has imposed a long-term blockade on Karachi (Pakistan's largest port), and the Pakistan Navy must change this situation." Admiral Abbas revealed that weapons and equipment purchased from Turkey, the Pakistani army's weapons and equipment sources are relatively simple [1]. Most of Pakistan's main surface warships and submarines are purchased from several European countries as well as China, Russia and the United States.

Two Type 21 (Pakistan called the "Tariq" class) have been in service for nearly 30 years and are in urgent need of replacement by new ships. A "Perry"-class guided-missile frigate purchased from the United States lacks air defense missiles and basically does not have air defense capabilities.

Pakistani Navy Vice Admiral said Alifra Hussein pointed out the country's recent acquisition of two Chinese-made warships is a historic moment for Pakistan and its military[2]. The Pakistani Navy and China Shipbuilding and Trade Corporation signed a contract for the first time to purchase two Type 054A guided missile frigates. With the US\$62 billion China-Pakistan Economic Corridor development project currently being carried out in a large part of Pakistan, the four new frigates will be used for security and defense purposes at the strategic Gwadar Deep Sea Port and its adjacent waters. By the end of 2021, the Pakistani Navy will install four Type 054A guided missile frigates.

2. PERFORMANCE ANALYSIS

Type 054A is the latest missile frigate in active service of the Chinese Navy. It is equipped with an advanced radar system and a powerful firepower configuration. The vertical launch

system (4 groups of 8 units) can launch Haihongqi-16 medium-range air defense missiles. There are 2 groups of 4 anti-ship missiles, with strong anti-aircraft and anti-ship firepower.

In terms of anti-submarine, the Type 054A frigate can be equipped with Z-9 or Ka-28 anti-submarine helicopters, with anti-submarine deep bombs and anti-submarine torpedoes, and has strong fleet anti-submarine capabilities. For the Pakistan Navy, the 4000-ton all-round 054A frigate is completely sufficient. Table 1 shows the relevant performance parameter information of Pakistan 54A frigate.

Table 1. 54A Frigate's Key Parameters

Pakistani 54A frigate	Performance
Length × width × draft	134.1m×15.2m×4.05m
Crew member	180 (standard)
Medium range air defense	32 coupling vertical hair system
Radar	H/LJQ-382 three-coordinate air search radar
Displacement	4,053 tons
Top speed	Section 27
Voyage	8000 knots economy speed (15 knots)

Due to the relatively small tonnage of the ship, the living conditions on the ship are average. General officers live in double rooms, equipped with wardrobes, tables and other living facilities; senior officers' cabins have separate bathrooms; crew cabins are the same as cadets, and the cabin space is very small. Each cabin has 10 beds with all beds. It is a hammock, which is less than one meter wide. It is set on two or three floors. The height of the lower and middle bunks and the upper one is less than half a meter. There is a row of lockers in the cabin, one for every two people, and the volume is very limited. In addition to the clothing required by the trainees, such as military uniforms, are hung in and out of the cabinet, other items are placed in their suitcases and stacked under the beds. The Pakistani cadets over 18 years old were 1.8 meters tall and was sandwiched between the upper and lower hammocks.

On the whole, although the Type 054A frigate is not much larger than India's "Talva"-class frigate, these new ships that Pakistan is about to acquire are more flexible in battle [3]. The 54A Frigate provides a significant boost to the capabilities of the Pakistani Navy. If imported from Turkey Four "Island"-class light frigates can also be delivered on time. The Pakistan Navy will have a considerable maritime fleet by then.

3. CONCLUSION

Pakistan's navy has developed rapidly in recent years, adding a lot of high-tech information equipment, which has strengthened the overall strength of the Pakistani navy to a certain extent. With the improvement of Pakistan's naval power, it can protect itself more efficiently and effectively in the face of threats. Pakistan has tried its best to develop its national defense and military, but its strength is still very different. This long-term accumulated gap has caused a huge imbalance in regional conventional military power. Therefore, as a whole, Pakistan has to maintain a defensive strategy in the past, present and for a long period of time in the future.

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