

CIA/OCI IAS 2294/73

SECRET/NF/CD/BUO-THE SOUTH ASIAN MILITARY  
HANDBOOK

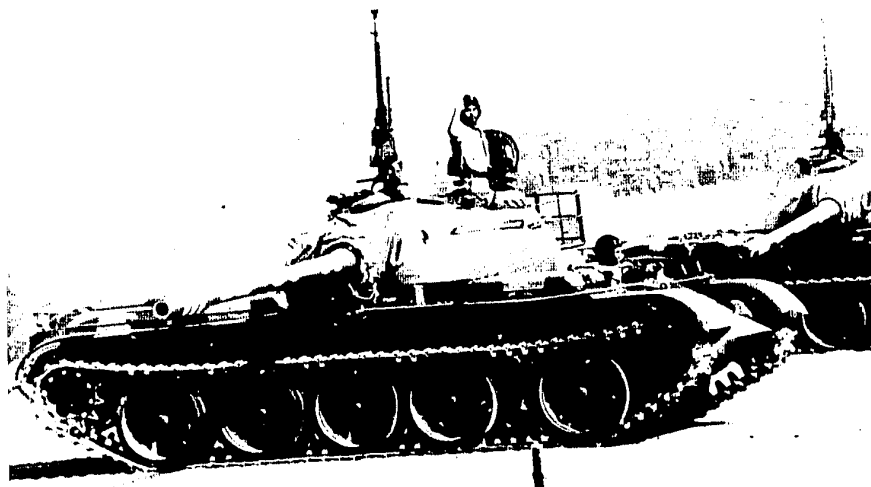
CIA AUG73

02 OF 02

SECRET

T-54/55/59 MEDIUM TANK

India, Pakistan



Characteristics

Main armament	100 mm. tank gun
Weight	40 tons
Speed	31 mph
Cruising range	250 (T-54) miles 310 (T-55) miles
Crew	4

Remarks

Both India and Pakistan have received enough of these medium tanks to make them the mainstay of their armored forces. New Delhi has purchased T-54/55s from the USSR, Poland, and Czechoslovakia. Pakistan has received the T-59, the Chinese version of the tank, and a few Soviet models.

Glos - 5

SECRET

SECRET

M-4 SHERMAN TANK

Pakistan



Characteristics

Main armament	. . . . .	.75- or 76-mm. gun
Weight	. . . . .	35 tons
Speed	. . . . .	25 mph
Cruising range	. . . . .	175-200 miles
Crew	. . . . .	5

Remarks

This US tank is of World War II vintage, but Pakistan still has several hundred in its inventory.

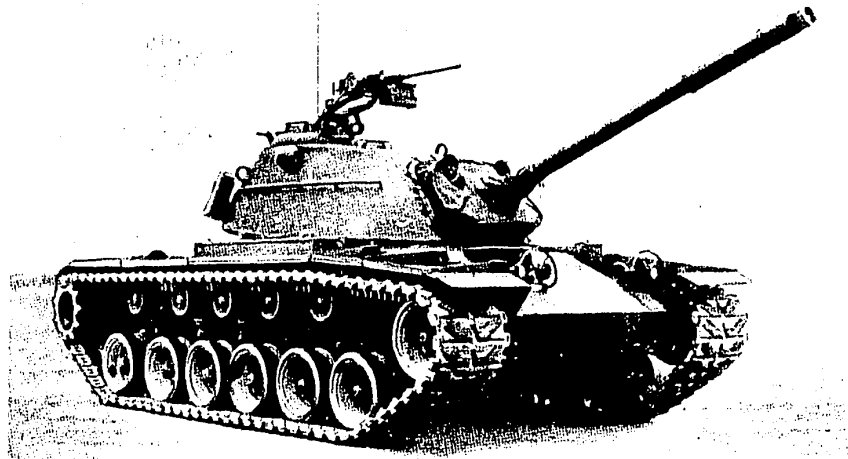
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SECRET

SECRET

M-47/48 PATTON TANK

Pakistan



Characteristics

Main armament	90-mm. gun
Weight	52 tons
Speed	32 mph
Cruising range	160 miles
Crew	4

Remarks

US medium tank comparable to the Soviet T-54/55. They are gradually being replaced in the Pakistan inventory by Chinese T-59s.

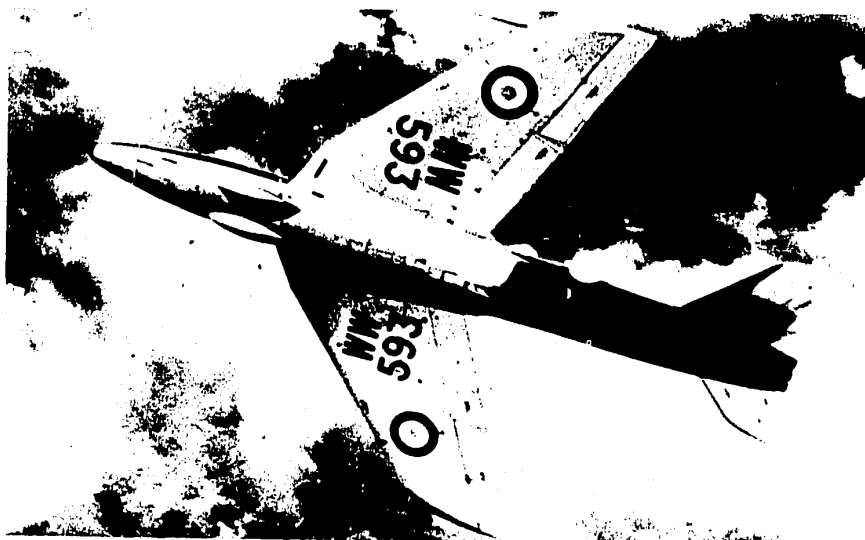
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SECRET

SECRET

HAWKER HUNTER  
Fighter

India



Characteristics

Engines . . . . . 1, turbojet  
Span . . . . . 34 ft  
Length . . . . . 46 ft  
Radius . . . . . 270 nm  
Speed . . . . . 530 kts  
Combat ceiling . . . . . 45,000 ft

Armament . . . . . 2,000 lbs  
(cannon, bombs, rockets)

Remarks

The Hawker Hunters performed well during the 1971 war, and India is attempting to retain them in service as long as possible. They were supplied by the British in the late 1950s.

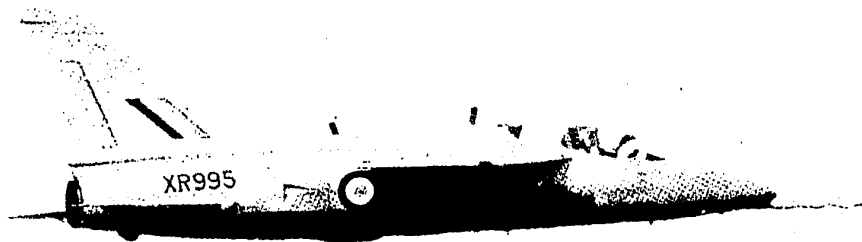
Glos - 8

SECRET

SECRET

GNAT  
Fighter

India



Characteristics

Engines . . . . . 1, turbojet  
Span . . . . . 22 ft  
Length . . . . . 30 ft  
Radius . . . . . 370 nm  
Speed . . . . . 590 kts  
Combat ceiling . . . . . 40,000 ft

Armament . . . . . 2,000 lbs  
(cannon, bombs, rockets)

Remarks

The Gnat, although a subsonic aircraft, performed well in the 1971 war. India has decided to continue production of the aircraft under British license, and is working on an improved version.

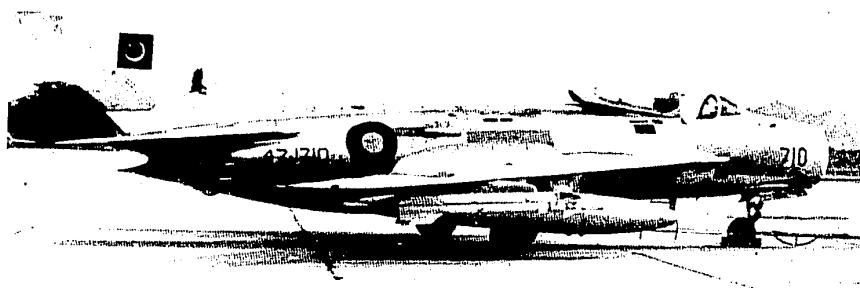
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SECRET

SECRET

MIG-19 (FARMER)  
Fighter

Pakistan



Characteristics

Engines . . . . . 2, afterburning jet  
Span . . . . . 29 ft  
Length . . . . . 34 ft  
Radius . . . . . 550 nm  
Speed . . . . . 785 kts  
Combat ceiling . . . . . 55,600 ft

Armament

Maximum payload . . . . 1,100 pounds (guns, bombs,  
rockets,missiles)

Remarks

Pakistan has received well over 100 MIG-19s from China since 1965. It performs well at low altitudes and in a ground-support role, and is replacing older F-86s in operational units.

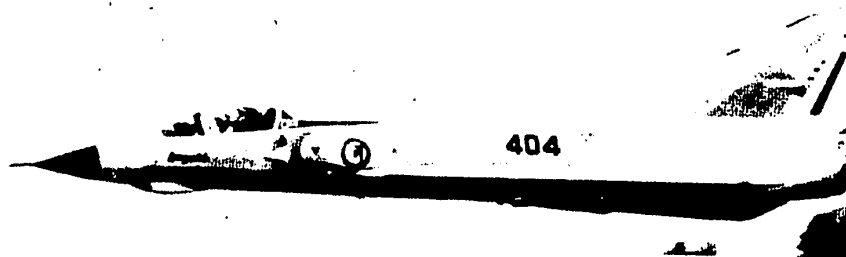
Glos - 10

SECRET

SECRET

MIRAGE III-C,-E  
Fighter

Pakistan



Characteristics

Engines . . . . . 1, turbojet  
Span . . . . . 27 ft  
Length . . . . . 49 ft  
Radius . . . . . 260 nm (C); 790 nm (E)  
Speed . . . . . 600-1,050 kts  
Combat altitude . . . . . 50,000-60,000 ft

Armament . . . . . 2,000 lbs  
(cannon, bombs, air-to-air and  
air-to-surface rockets and missiles)

Remarks

The Mirage III and the Mirage 5 are the best supersonic fighters in the Pakistan Air Force, and Islamabad plans to purchase additional aircraft from France.

Glos - 11

SECRET



SECRET

F-86 SABRE  
Fighter

Pakistan, Bangladesh



Characteristics

Engines . . . . .	1, jet
Span . . . . .	39 ft
Length . . . . .	39 ft
Radius . . . . .	600 nm
Speed . . . . .	600 kts
Combat ceiling . . . . .	49,600 ft

Armament . . . . . 2,000 lbs  
(guns, bombs, rockets)

Remarks

The US F-86 fighter has long been the mainstay of the Pakistan Air Force, and in spite of its subsonic performance, Islamabad is still seeking more. They were heavily committed during the 1971 war. Bangladesh captured about eight F-86s at the end of the war, but needs spare parts and technical assistance to keep them operational.

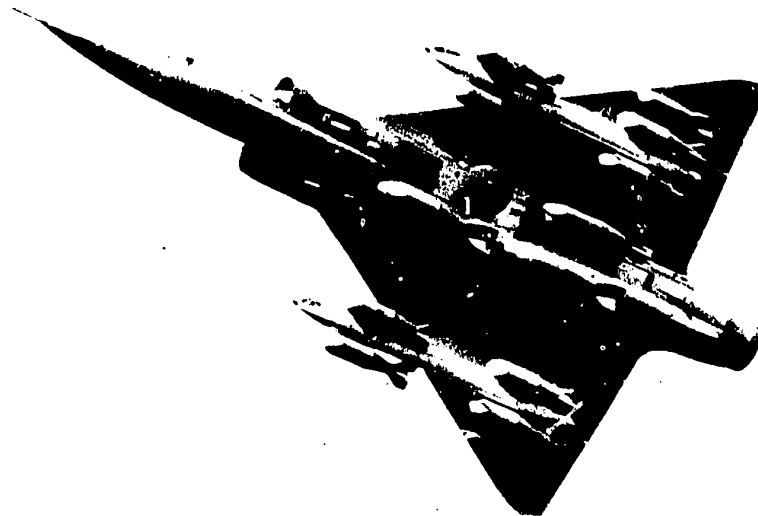
Glos - 12

SECRET

SECRET

MIRAGE 5  
Fighter/bomber

Pakistan



Characteristics

Engines . . . . .	1, turbojet
Span . . . . .	27 ft
Length . . . . .	51 ft
Radius . . . . .	475 nm
Speed . . . . .	1,150 kts
Combat altitude . . . . .	57,550 ft

Armament . . . . . (cannon, bombs, air-to-air and  
air-to-surface rockets and missiles)

Remarks

Pakistan purchased 30 Mirage 5s from France in 1970,  
but delivery did not begin until late 1972.

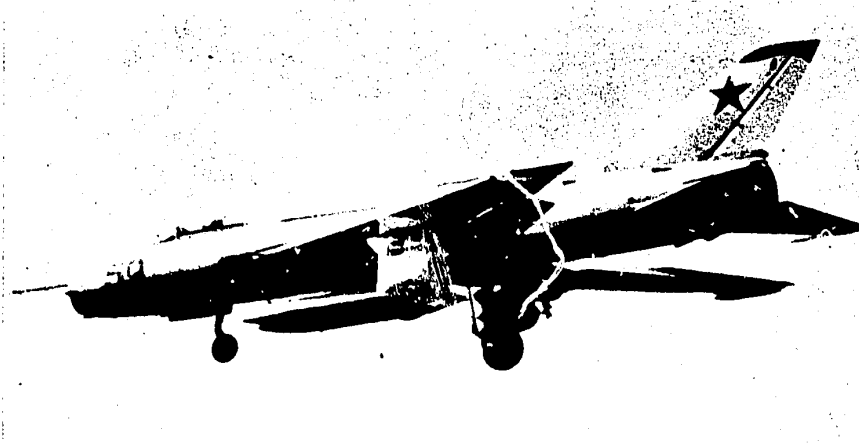
Glos - 13

SECRET

SECRET

**SU-7 (FITTER)**  
Fighter/Bomber

India



Characteristics

Engines . . . . . 1, after-burning jet  
Span . . . . . 31 ft  
Length . . . . . 50 ft  
Radius . . . . . 325 nm  
Speed . . . . . 1,205 kts  
Combat ceiling . . . . . 59,000 ft

Armament . . . . . 4,400 lbs  
(guns, bombs, rockets, 2 infrared homing missiles)

Remarks

The Indians purchased SU-7s from the Soviet Union prior to the 1971 war, but were dissatisfied with their combat performance. New Delhi now seeks a fighter/bomber with increased range, speed, and payload comparable to the Mirage 5s in the Pakistani inventory.

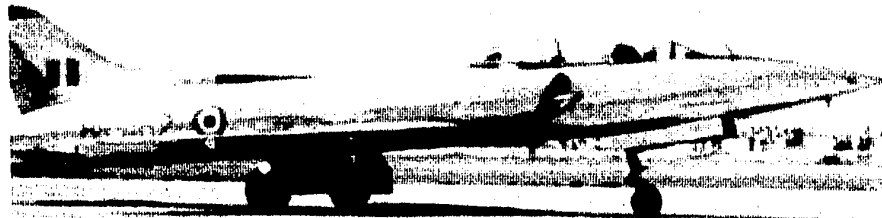
Glos - 14

SECRET

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HF-24 MARUT  
Fighter/Bomber

India



Characteristics

Engines . . . . .	2, turbojet
Span . . . . .	30 ft
Length . . . . .	52 ft
Radius . . . . .	490 nm
Speed . . . . .	600 kts
Combat ceiling . . . . .	55,000 ft

Armament . . . . . 4,000 lbs  
(cannon, bombs, rockets)

Remarks

The HF-24 is the only combat aircraft produced in India that is not under a foreign license agreement. The aircraft was designed and built with foreign technical assistance, and the Indians continue to work on an improved version.

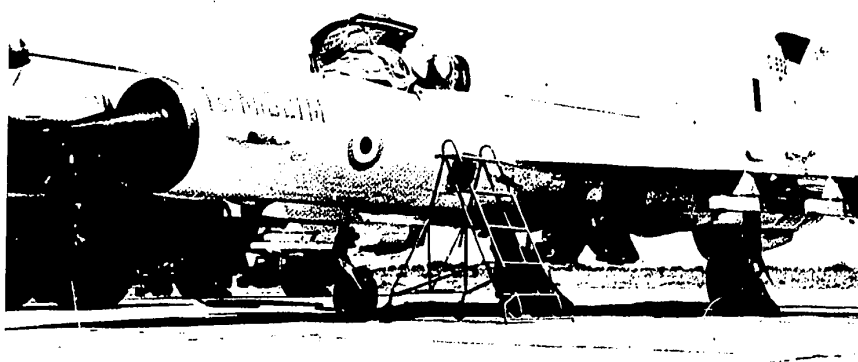
Glos - 15

SECRET

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MIG-21 (FISHBED)  
Fighter/Interceptor

India, Bangladesh



Characteristics

Engines	.....	.1, after-burning jet
Span	.....	23 ft
Length	.....	44 ft
Radius	.....	400 nm
Speed	.....	.1,260 kts
Combat ceiling	.....	.62,600 ft

Armament

3,300 lbs . . . . . (guns, bombs, rockets,  
two infrared homing missiles)

Remarks

The Indians have two versions of the Soviet MIG-21 in their inventory, the earlier MIG-21-FL(D) and the MIG-21M(J). The later version has improved range and an internal gun, and is more effective in a ground-support role. The MIG-21M will soon replace the MIG-21FL in series production under Soviet license. Bangladesh is receiving a squadron of MIG-21s from Moscow.

Glos - 16

SECRET

SECRET

B-57 CANBERRA  
Light Bomber

India, Pakistan



Characteristics

Engines	2, jet
Span	64 ft
Length	66 ft
Radius	1,100 nm
Speed	530 kts
Combat ceiling	48,400 ft

Armament . . . . . 6,000 lbs  
(guns, bombs, rockets)

Remarks

The US B-57 Canberra is the main bomber in the Pakistan Air Force, but it is vulnerable to Indian air defenses because of its subsonic speed. The British Canberra is the main bomber in the Indian Air Force.

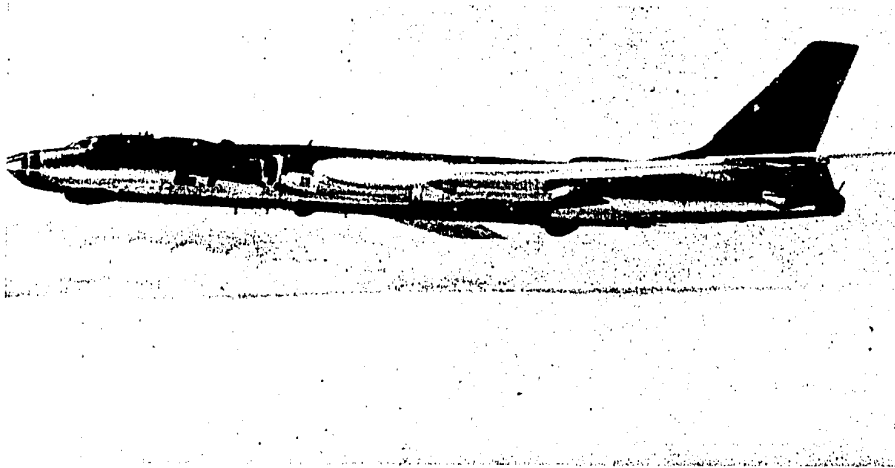
Glos - 17

SECRET

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TU-16 (BADGER)  
Bomber

Pakistan



Characteristics

Engines	2, jet
Span	108 ft
Length	121 ft
Radius	1,650 nm
Speed	500 kts
Cruise speed	445 kts
Combat ceiling	44,800 ft
Crew	5-6

Bomb Capacity . . . . . 20,000 lbs

Normal bomb load . . . . . 6,600 lbs

Remarks

China reportedly will make a squadron of TU-16s available to Pakistan in time of crisis, with the aircraft to remain in China until then.

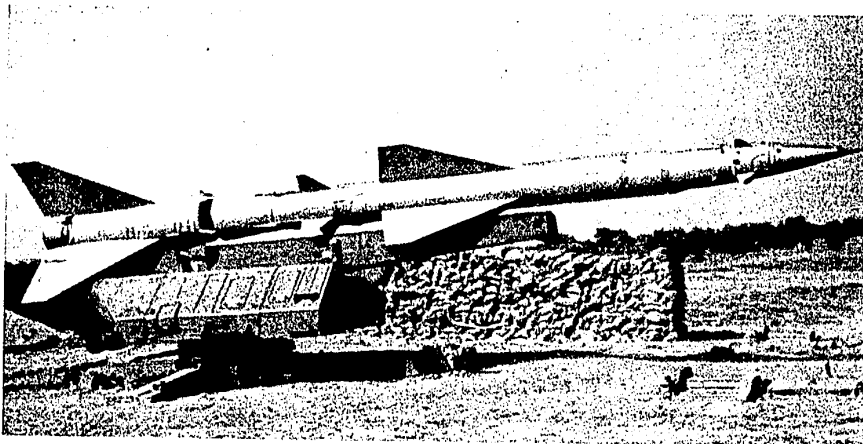
Glos - 18

SECRET

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SA-2 GUIDELINE  
Surface-to-Air Missile

India



Characteristics

Maximum Operational Range	19-27 nm
Altitude Range	1,500 to 80,000 ft
Warhead Type/Weight	HE/420 lbs
Guidance	Command
Accuracy	75 to 100 ft
Missile Weight	5,450 lbs
Missile Length	35.6 ft
Missile Diameter	19.7 in

Remarks

India acquired about 19 SA-2 launch batteries in the 1960s. The British Tigercat missile system is being acquired for low-altitude air defense.

Glos - 19

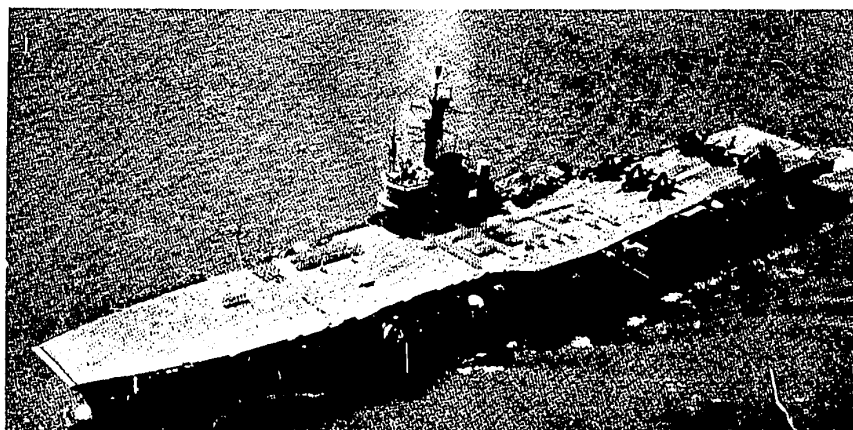
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MAJESTIC-CLASS  
Aircraft Carrier

India



Characteristics (INS Vikrant)

Complement . . . . .	1,343
Length . . . . .	630 ft
Beam . . . . .	80 ft
Draft . . . . .	24 ft
Displacement . . . . .	16,000 tons
Maximum speed . . . . .	24.5 knots
Aircraft . . . . .	21 capacity (Seahawks or Alizes)

Remarks

India purchased the "Vikrant" from the UK in the late 1950s.

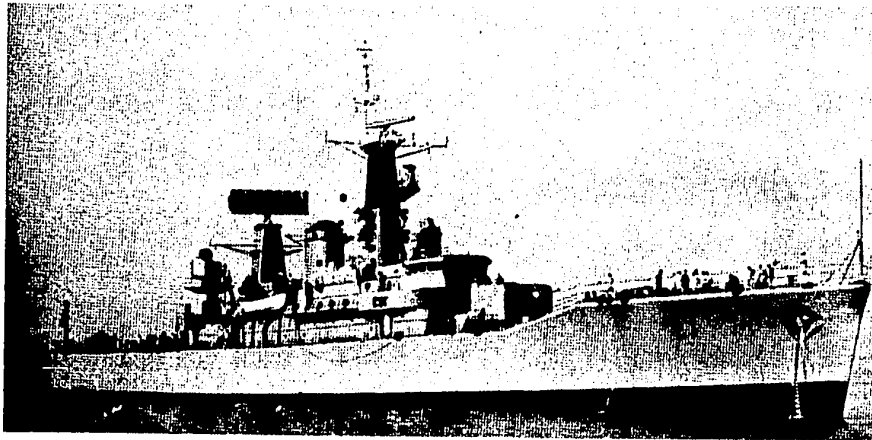
Glos - 20

SECRET

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LEANDER-CLASS  
Frigate

India



Characteristics

Complement . . . . .	263
Length . . . . .	360 ft
Beam . . . . .	43 ft
Draft . . . . .	18 ft
Displacement . . . . .	2,450 tons
Maximum speed . . . . .	30 kts

Armament . . . . . 2 twin 115-mm. main guns;  
2 quadruple Seacat AA missile launchers;  
1 ASW-configured Alouette III

Remarks

India is building six Leander-class frigates under British license, all of which should be completed by the late 1970s. The Indian Navy also has a large number of former British warships: two light cruisers of 1930s vintage; two destroyers of 1940s vintage; and seven destroyer escorts of 1950s vintage. The older units are used as training ships or are scheduled for replacement.

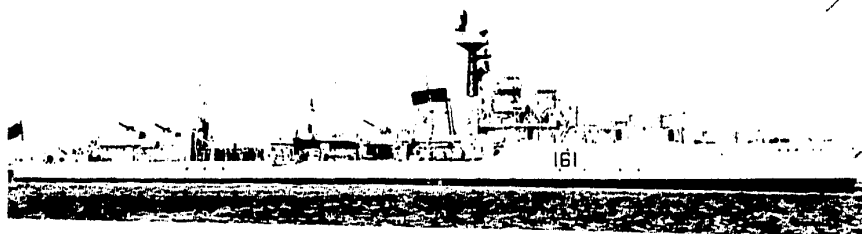
Glos - 21

SECRET

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**BATTLE-CLASS**  
Destroyer

Pakistan



**Characteristics (PNS Badr)**

Complement . . . . .	270
Length . . . . .	355 ft
Beam . . . . .	40
Draft . . . . .	17 ft
Displacement . . . . .	2,325 tons
Maximum speed . . . . .	31 kts
Armament . . . . .	4 115-mm. main guns

**Remarks**

The "Badr" is one of the major surface warships in the Pakistan Navy. It is one of seven former British warships in the navy, the others being one light cruiser, three more destroyers, and two destroyer escorts. All are of the 1940s vintage.

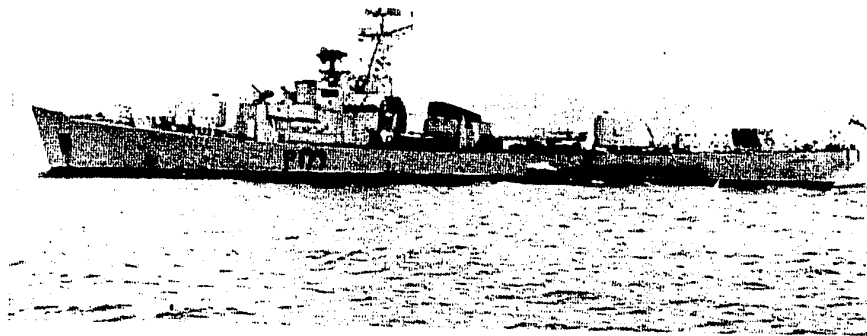
Glos - 22

SECRET

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**PETYA-CLASS**  
Destroyer Escort

India



**Characteristics**

Complement . . . . .	100
Length . . . . .	269 ft
Beam . . . . .	30 ft
Draft . . . . .	9 ft
Displacement . . . . .	1,100 tons
Maximum speed . . . . .	34 kts

**Armament**

Guns . . . . .	2 twin 76.2-mm. mounts
Torpedoes . . . . .	5 16-in. tubes
ASW . . . . .	4 MBU-2500 rocket launchers
Depth charges . . . . .	number unknown
Mines . . . . .	2 mine rails

**Remarks**

India has received eight Petyas from the Soviet Union and two more are scheduled for delivery by 1975.

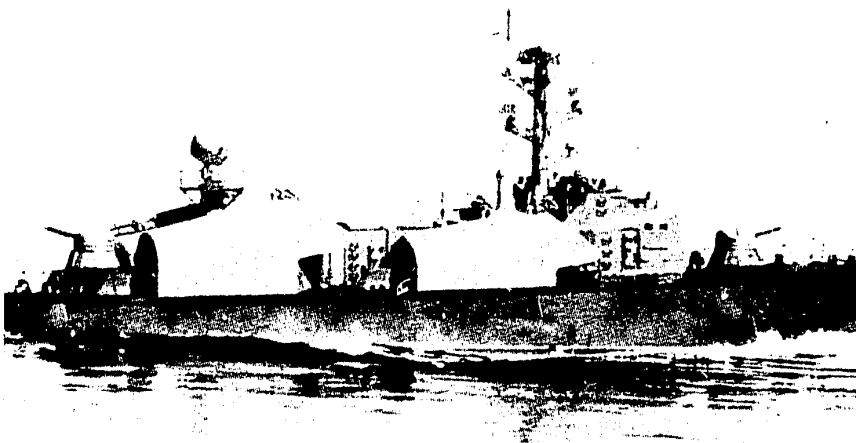
Glos - 23

SECRET

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**OSA-1 CLASS**  
Guided-Missile Patrol Boat

India



**Characteristics**

Complement . . . . . not available  
Length . . . . . 128 ft  
Beam . . . . . 25 ft  
Draft . . . . . 6 ft  
Displacement . . . . . 205-215 tons (full load)  
Endurance  
at economical speed . . . . . 1,500 nm at 14 kts  
at maximum speed . . . . . 550 nm at 34 kt

**Armament**

Missiles . . . . . 4 single SS-N-2 SSM launchers;  
4 missiles  
Guns . . . . . 2 twin 30-mm. AA machine-gun mounts

**Remarks**

India received eight Osas from the Soviet Union prior to the 1971 war, and they played a decisive role in the conflict. New Delhi has since ordered eight more of these coastal patrol boats.

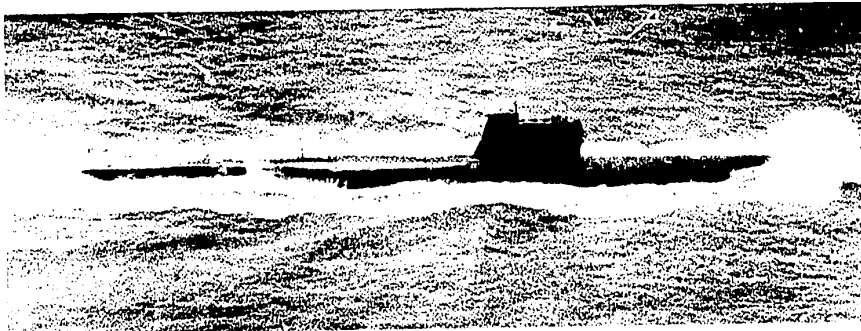
Glos - 24

SECRET

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F-CLASS  
Torpedo Attack Submarine

India



Characteristics

Complement	79
Length	300 ft
Beam	25 ft
Displacement	
surfaced	1,775 tons
submerged	2,470 tons
Propulsion	diesel, 3 screws
Torpedoes	22

Remarks

India received four F-class submarines from the Soviet Union before the 1971 war, and four more are on order.

Glos - 25

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DAPHNE-CLASS  
Submarine

Pakistan



Characteristics

Complement . . . . .	45
Length . . . . .	190 ft
Beam . . . . .	22 ft
Displacement	
surfaced . . . . .	869 tons
submerged . . . . .	1,053 tons
Propulsion . . . . .	Diesel, 2 screws
Torpedoes . . . . .	12 launchers

Remarks

Pakistan purchased three of these submarines from France in the late 1960s.

Glos - 26

SECRET