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PAKISTAN ARMED FORCES

THE PAKISTAN ARMY

The Pakistan Army a total strength of 520000 with a reserve element of 500000, who have a reserve obligation up to the age of 45 years.

The Army is at present divided into nine Corps headquarters with two Armoured Divisions, nine Corps Artillery Brigades, seven Engineer Brigades, nineteen Infantry Divisions, one area command equivalent of one division seven independent armoured brigades, three armoured reconnaissance regiments, one Special forces group, nine independent Infantry brigades one Air Defence command comprising of three Air Defence Groups with eight brigades.

The **main equipment** with her troops is as follows:

a) Armour a total of 2320 tanks made up as follows:

M-47	US	15 (One squadron worth)
M-48M	US	250 (Approximately five regiments)
T-59	Chinese	1200 (Approximately twenty four regiments)
T-69	Chinese	250 (Approximately five regiments)
T-85	Chinese	200 (Approximately four regiments)
T-80UD	Ukrainian	300 (Approximately six regiments)

b) Armoured Personnel Carriers. A total of 850 M-113.

c) Artillery (Towed) a total of 1590 pieces) is made up as follows:

85 mm	China	200 (Approximately 10 Regiments)
105mm M-101	US	300 (Approximately 15 Regiments)
105mm M-56 Pack	US	50 (Approximately 2 Regiments)
122mm Type-60	China	200 (Approximately 10 Regiments)
122mm Type 54	China	400 (Approximately 20 Regiments)

130mm Type 59	China	200 (Approximately 10 Regiments)
155mm M-59	US	30 (Approximately 4 batteries)
155mm M-114	US	60 (Approximately 3 Regiments)
155mm M-198	US	124 (Approximately 6 Regiments plus one battery)
203mm m-118	US	26 (Approximately one regiment plus two batteries.)

d) Artillery (Self Propelled) a total of 240 pieces made up as follows:

105 mm M-7	US	50 (Approximately two regiments plus one battery)
155mm M-109 A2	US	150 (Approximately seven regiments plus one battery)
203mm m-115	US	26 (Approximately one regiment plus one battery)

e. Multi Barrel Rocket Launchers a total of 45, which would make up seven batteries.

f. Mortars -120 mm M-50 and M-61 a total of 250 or seven regiments plus one battery.

g. Tactical Surface to surface missiles, made up of Hatf-1, Hatf-2 and Shaheen a total of eighteen.

h. Tactical Surface-to-Surface missiles M-11a total of sixty-four, with twenty launchers.

i. Anti Tank Guided Missiles, a total of 800 made up with Cobras, TOWs Green Arrows or rather the Chinese copy called the Red Arrow.

j. Recoil Less Guns mainly 75mm type-52 and 106mm M-40A1.

k. Air Defence Guns, a total of 2000+ out of which they have

35 mm GDF-002	200
378 mm Type 57	65
40mm L/60	100
57mm Type	59
14.5mm	

l) Surface to Air Missiles

Stingers, Redeye and RBS-70	350
Anza Mk-1/2	500

m) Survey Radar-AN/TPQ-36

n) Aircraft

Survey-Commnander-840	1
Liaison	
Cessna-421	1
Commander- 690	2
Mashshaq	80
F-27	1
Observation	
O-1E	40
Mashshaq	50

o) Helicopters

Attack- AH-1F(TOW)	20
Transport	
Bell 47 G	12
Type 205	7
Type 206B	10
Mi-8	16
IAR/SA-315B	6
IAR/SA-316	23
SA-330	35
UH-1H	5

The above forces and weapons have been grouped into 9 Corps with the formations mentioned below. The details are given below: -

(a) I Corps (Army Reserve North) located at Mangla

- (i) 6 Armoured Division
- (ii) 17 Mechanised Division
- (iii) 35 Infantry Division
- (iv) Mechanised Infantry Light Anti Tank Brigade equipped with TOW/Redeye Anti tank Guided Missiles mounted on jeeps
- (v) One independent Infantry Brigade.

(b) II Corps located at Multan.

- (i) 1 Armoured Division.
- (ii) 2 Artillery Divisions.
- (iii) 14 Mechanised Division.
- (iv) Mechanised Infantry light Anti Tank Brigade.

(c) IV Corps located at Lahore.

- (i) 10 Infantry Division.
- (ii) 11 Infantry Division.
- (iii) 3 Independent Armoured Brigades.
- (iv) 212 Independent Infantry Brigade.

(d) V Corps located at Karachi

- (i) 18 Infantry Division
- (ii) 41 Infantry Division
- (iii) Independent Armoured Brigade

(e) X Corps with its responsibility of Jammu and Kashmir

- (i) Force Commander Northern Areas (Equivalent of a Division)
- (ii) 9 Infantry Division ex XI Corps at Peshawar now deployed opposite Dras with Headquarters at Gulteri.
- (iii) 12 Infantry Division with its headquarters at Murree.
- (iv) 19 Infantry Division with its headquarters at Jhelum.
- (v) 23 Infantry Division with its headquarters at Gujrat.
- (vi) 111 Independent Infantry Brigade at Rawalpindi.
- (vii) 8 Independent Armoured Brigade at Kharian.

(f) XI Corps located at Peshawar

- (i) 7 Infantry Division.
- (ii) 9 Infantry Division which has now been deployed opposite Dras in Gulteri
- (iii) Independent Armoured Brigade.

(g) XII Corps located at Quetta.

- (i) 16 Infantry Division.
- (ii) 33 Infantry Division.
- (iii) One Independent Armoured/ Independent Infantry Brigade(?).

(h) XXX Corps located at Gujranwala.

- (i) 8 Infantry Division.
- (ii) 15 Infantry Division.

- (iii) 2 Independent Armoured Brigade.
- (j) XXXI Corps located at Pannu Aquil
 - (i) 37 Infantry Division.
 - (ii) 40 Infantry Division
 - (iii) Mechanised Infantry Heavy Anti Tank Brigade.
 - (iv) 105 Independent Brigade Group.

The likely developments are that with the move out of 9 Infantry Division the shortfall in XI Corps will have to be made up. As such there would be a raising of one more Infantry Division.

With the induction of 300 T-80-UD tanks one can expect the raising of one more armoured division. However just by itself the armoured division would be useless. So one can expect the raising of at least one more Mechanised Division. For the latter there would be a need for at least 500 more Armoured Personnel Carriers. While there is no doubt that this will be a major economic burden but using of Narcotic funds Pakistan will be able to meet this requirement. The employment of this Corps with the new armoured and mechanised Infantry Division would most likely be as the Army Reserve Central.

PAKISTAN NAVY

The Pakistani Navy is her Achilles Heel and the weakest link in the defence chain. The weakness is reflected in the practically open Southern flank that India has so far failed to exploit.

Her total manpower is 22000, which include the Naval Air, marines and 2000 Maritime Security Agency, basically Coast guards. The Navy has a reserve strength of 5000

Her Fleet strength includes: -

Ser	Class	Name of the Vessel	Country of Origin	Main Armaments
(a)	Submarines-10	Khaled Class--- 1	France (Agosta 90B)	533mm TT* Exocet SM 39 USGW
		Hasmat--- 2	France (Agosta)	533mmTT(F-17HWT Harpoon USGW
		Hangor Class---4	France (Daphane)	533mmTT(L-5HWT Harpoon USGW
		SS-1---3	Not Available	Under Delivery

(b)	Frigates	Tariq Class---6	US (Amazon)	4x Harpoon SSM 1xLY-60N SAM 2X3 324 ASTT 1x114mm gun 2 Lynx helicopters
		Shamsher Class	England(Leander)	1x3 ASW mortar 2x114mm guns 1x Sa 319 Helicopter
(c)	Missile Craft	Huanfeng Class—4	China-	4 HY 2 SSM
		Jalat Class---1		4 C-802 SSM
(d)	Coastal Patrol	Larkana Class---1	China(Shanghai)	PCC
(e)	In Shore Patrol	Quetta Class--2		PFI
		Rajshahi Class--1		
	Minesweeper	Munsif Class---3	French (Eridan)	

* Torpedo Tube

HWT-Heavy Weight Torpedo

Naval Air

(a) Combat Aircraft ---6 (Atlantique—3 and P-3C Orions—3) (Anti submarine/ Maritime Reconnaissance)

(b) Helicopters ---12 [4x SA-319B(ASW), 6xSea Kings MK 4(ASW) 2xLynx HAS Mk-3(ASW)]

PAKISTAN AIR FORCE

Pakistani Air doctrine has laid greater emphasis on support of their ground operations. This in turn is backed up by an air defence effort to deny the enemy air a capability to dominate the battlefield by its air effort. Towards that end their aircraft inventory is equally divided between close support ground support aircraft and air defence aircraft. The details of their air force inventory are given below: -

Ser	Aircraft	Role	Main Armaments	Remarks
(a)	Mirage III---16 [13x IIIEP 3x IIIDP(TRG)]	Ground Attack	AM-39	Organised in one Squadron. The Country of Origin-France.
(b)	Mirgae-5--- 52 [40x5PA/PA2 10x5PA3-AsuW 2x5DPA/DPA2]	Ground Attack		Country of Origin-France. Organised into three squadrons.
(c)	Q-5-(A5 Fantan)	Ground Attack		Organised into 3 Squadrons. Country of Origin—China
(d)	J-6/JJ-6—50	Air Defence		Country of Origin—China. Organised into 4 squadrons.

(e)	F/16--22		Air Defence	Nuclear Capable	Country of Origin-USA Organised into three squadrons.
(f)	J-7—77		Air Defence		Country of Origin—China. Organised in 2 squadrons
(g)	Mirage IIIO—43		Air Defence		Country of Origin—France Organised in one squadron.
(h)	Mirage IIIRP--11		Reconnaissance		Country of Origin-France Organised into one squadron.
(i)	Helicopter-SA-319--15		Search and Rescue		Country of Origin—France Organised into one squadron
(j)	C-130---- 12 Boeing707—2 Boeing737---1 Falcon20--- 1 F-27 --- 2 Beech Super King Air 200 ---- 1		Transport		[Country of Origin---[USA [[Netherlands [USA [Organised into one squadron.
(k)	JJ-5	30	Training		China
	JJ-6	30	Training		China
	FT-7	13	Training		China
	MFI	40	Training		Sweden
	T-33A	10	Training		USA
	T-37B	30	Training		USA
	K-8	12	Training		China
	F-16B	11*	Training		USA
	MirageIIIOD	7*	Training		France
(l)	SAM Batteries—7 Croatale-6 CSA-1 (Each battery has six missiles)		Surface to Air Missiles		France USA
(m)	AM-39 Exocet		Air to Surface Missiles		France
	AGM-65 Maverick		Air to Surface Missiles		USA
	AGM-84 Harpoon		Air to Surface Missiles		USA
(n)	AIM-7 Sparrow		Air to Air Missile		USA
	AIM-9 Sidewinder		Air to Air Missile		USA
	AGM-84 Harm		Anti Radiation Missile		USA

* Combat Capable

PERFORMANCE CAPABILITIES OF THE ABOVE AIRCRAFT

Type	Country of Origin	Speed	Range	Armaments	Remarks
Ground Attack					
Mirage III EP	France	At MSL:1320 Kmph At Max Ceiling(39000ft): Mach 2.2	Not Available	1. 2^30mm DEFA Guns with 125 Rds per gun 2. 2^18^68mm SNEB Rockets 3. 195 Kg Durandal 4. 273Kg BL 755 Cluster 5. 342 Kg Demolition 6. 400Kg Strim	Guns are integral. It can take either two sets of rockets or two bombs.
Mirage 5PA/PA2	France	At At Max Ceiling	Same	As Mirage IIIE	With improved Avionics
A-5/A-5	China	At MSL: 1210 Kmph At Max Ceiling: (36000 ft): Mach 1.5	With Max Load in Lo-Lo-Lo- Profile: 400kms/ In Hi-Lo-Hi profile:600kms In Hi-Lo-HI profile 280 Kms	One 23 mm Cannon with 100 Rounds BL 7555-500Kg Bombs 2^250Kg Bombs 2^550 Matra Rockets	Derivative of MiG 19. Can take total of 1000kg of bomb load. Derivative of MiG 21MF
F-7P(In Ground Attack Role)	China	At Max ceiling : 2175 Kmph			
Air Superiority/Air Defence					
J-6/JJ-6(F-6/FF-6)	China	At MSL At Max Ceiling	Same As A -5	For AAM Missiles	Derivative of MiG 19
J-7(F-7P)	China	At MSL At Max Ceiling: 2175 Kmph	In Hi-Lo-Hi Profile: 280 Kms	2^ AAM	Derivative of MiG-21 MF (Fishbed)
Mirage III-O	France	At MSL At Max Ceiling	Same as Mirage Above		
F-16 A/B	USA	At MSL At Max Ceiling	With 6^550 lbs bombs: + 2^370 gal drop tanks + ECM Pod:530 Kms With 2^2000lb + 2^370 gal drop tanks + 1^ 300 gal drop tank: 700kms	Internal: Vulcan 20mm gun with 500 rounds. Other weapons available are Rockets; Laser guided bombs; Maverick guided missiles In addition integral: Air to Air Missiles : Two AIM Sidewinder missiles.	

Atlantique	France	At MSL At Max Ceiling	Patrol Time over area 1110kms away from base: 7 hours 50 mins	9^ Mk 44 Torpedoes 12^ Mk 11 depth Charges 46 AS 12 Missiles 2^ Mk 25 mines 15 bombs of 250 mm diameter	Maritime Reconnaissance
P-3 Orion	USA	At MSL At Max Ceiling			Maritime Reconnaissance

MISSILES

Name	aka	Static/Mobile	War Head	Range	CEP
Hatf-1	-	Mobile	500kg	80 KM	Not Known
Hatf-2	-	Mobile	500kg	300 KM	Not Known
Hatf-3	-	Mobile	500 kg	600 KM	Not Known
Shaheen	Hatf-4	Mobile	Not Known	750 KM	Not Known
Ghauri-1	Hatf-5	Mobile	700 kg	1500 KM	Not known
Ghauri	Hatf-6	Static	700kg	2300 KM	Not Known
Ghazanvi	Under development				

From the above it will be seen that none of the missiles have a declared CEP implying its high degree of inaccuracy

No missile has a warhead capability of more than 700 kgs, thereby implying that none of them is capable of carrying a nuclear warhead, the minimum weight of a crude nuclear U -235 device is just more than 1000 kgs. Pakistan has still not developed the technology of creating a sub-critical nuclear explosion.

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The author a retired Colonel is a Defence Analyst and Commentator.

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