

## ARMY ORBAT (ORDER OF BATTLE)

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### ORGANIZATION

#### **Personnel**

- Army: 980,000 active troops.
- Army Reserves: 300,000 first line troops (within five years of full time service)  
.....500,000 second line troops (commitment until 50 years of age).
- Territorial Army: 40,000 first line troops (160,000 second line troops).

#### **Command Structure**

- Indian Army HQ: New Delhi
- Operational Commands: Northern Command - HQ in Udhampur, Jammu & Kashmir.  
.....Western Command - HQ in Chandimandir, Chandigarh.  
.....South Western Command - HQ in Pathankot, Punjab.  
.....Central Command - HQ in Lucknow, Uttar Pradesh.  
.....Eastern Command - HQ in Kolkota, West Bengal.  
.....Southern Command - HQ in Pune, Maharashtra.
- Functional Commands: Training Command (ARTRAC)

#### **Formations**

- Corps: 13 Corps, consisting of 3 'Strike' Corps + 10 'Holding' Corps - including 1 Desert Corps.
- Armour: 3 Armoured Divisions + 8 Independent Armoured Brigades = 63 Armoured Regiments;  
.....13 T-55 Regiments  
.....35 T-72M1 Regiments  
.....14 Vijayanta Regiments  
.....1 Arjun Mk.1 Regiment (Undergoing Trials)  
\*T-90S MBTs are currently being delivered to replace the older tanks.
- Infantry: 4 RAPID, 10 Mountain Divisions, 18 Infantry Divisions + 7 Independent Infantry Brigades.  
\*Each RAPID (Reorganised Army Plains Infantry Division) has a Mech. Infantry Brigade.  
\*One Infantry Division is earmarked for mountain use - 3rd Division.
- Artillery: Two artillery divisions (30 AD and 41 AD).  
\*Each division has at least one artillery brigade.  
\*Nearly 200 regiments of field artillery exist.
- Air Defence: 50+ regiments - 35 'Flak' and 15 'Point Defence' regiments.  
.....SAM: Two SA-6 Groups - 12+ regiments.  
\*Each 'Flak' regiment has four battalions - 64 guns.  
\*20 additional 'Flak' regiments held in reserve.  
\*New AD Groups - one per Strike Corps - being formed: One regiment each of ZRK-SD *Kub* (SA-6), OSA-AKM (SA-8b), and ZSU-23-4 *Shilka* or Tunguska-M1. [SA-10](#) batteries are known to be in used in the vicinity of Bhaba Atomic Research Centre (BARC) in Trombay.
- Aviation: 14 Helicopter Units (HAL Chetak and HAL Cheetah) in anti-tank, liaison and observation duties.
- Territorial Army: 25 Infantry Battalions  
.....29 Departmental Units  
.....4 Ecological Battalions

### EQUIPMENT

#### **ARMoured VEHICLES**

**Active Main Battle Tanks - 62 Armoured Regiments**

- T-90S: 5 regiments @ 62 tanks each, (310) plus a further 1330 tanks being locally assembled.
- T-72M1: 35 regiments @ 55 tanks each, (1950) upgrade program in progress - moving very slowly.
- T-55: 10 regiments @ 55 tanks each, (550) with L7/105mm gun + the Vijayanta standard upgrade.
- Vijayanta: 11 regiments @ 72 tanks each, (800+) upgraded with FCS and night fighting equipment.

\*The above list excludes the one Arjun Mk.1 armoured regiment.

**Reserve/Store MBTs**

- T-55: 200 - To be phased out by 2008
- Vijayanta: 1000 - To be phased out by 2008

**Active Infantry Combat Vehicles**

- BMP-1: 700
- BMP-2: 900+ (production continues at 100 per year)
- OT-62/64: 700+ (second line and mortar carrier duties)

**Reserve/Store ICVs**

- 500+ (miscellaneous Czechoslovakian & Russian types)

**Reconnaissance Vehicles**

- Ferret: 100 (used for internal security duties)
- BRDM-2: 110 (locally fitted with AT-4, AT-5 and Milan ATGW)

**ARTILLERY; ~200 REGIMENTS****Active Towed Artillery**

- 105mm LFG: 700+ (Being replaced by 130mm M-46 Field Gun)
- 105mm IFG Mk.1,2,3: 600+ (Being replaced by 130mm/155mm M-46 Field Gun)
- 122mm D-30: 550
- 130mm M-46: 750
- 155mm M-46: 35 guns upgraded to 155mm calibre, out of a total of 180 guns, as of March 2005.
- 155mm Bofors FH-77B: 410 (An estimated 100+ guns are cannibalized and are not operational)

**Reserve Towed Artillery**

- 75mm Mountain Howitzer: 900+
- 76mm M-48 Mountain Gun: 215
- 88mm 25 Pounder: 800 (also used for training)
- 100mm M-1944: 350
- 180mm S-23: 100

**Self-Propelled Artillery**

- 105mm Abbot: 80
- 130mm Catapult M-46: 100+

\*Both guns have been phased out from active service due to age/mechanical problems.

\*A self-propelled artillery [competition](#) is underway in India.

**Multiple Rocket Launcher (Artillery)**

- 122mm BM-21/LRAR: 150+
- 214mm Pinaka: ~30 (one regiment per year)
- 300mm Smerch: 36 (being delivered)

**Mortars**

- 81mm Indian E1 + L1A1: 5000+
- 120mm AM-50: 1500+ (in service with mtn. artillery. SP versions with some Inf. Bdes.)
- 160mm Tampella: 200+ (in store)

**Anti-Tank Guided Weapons**

- Milan 2
- AT-3 Sagger (being phased out)
- AT-4 Spigot
- AT-5 Spandrel
- SS-11-B1 (used against bunkers)
- Harpon (used against bunkers)

**Recoilless Weapons**

- 57mm M-18: Being replaced by AGS-17 (2 issued per company)
- 84mm Carl Gustaf: One per infantry section
- 106mm M-40A1: 3000+ (10 per infantry battalion)

**Air Defence Guns**

- **23mm:** ZSU-23-2 - 320 (five regiments)  
.....ZSU-23-4 *Shilka* SP - 75
- **30mm:** Tunguska-M1 - 20 (up to 60 more on order)
- **40mm:** L40/70 - 1920 (30 regiments)  
.....L40/60 - 1280 (20 regiments in reserve with Territorial Army)

SIPRI {Stockholm International Peace Research Institute} reported that 24 Tunguska M1 systems were ordered in 1996 and all 24 systems were delivered by 1999. They estimate an additional 50 such systems are on order. SA-19 *Grisom* (9M311-M1) SAMs - which form part of the Tunguska M1's weapon systems - were also ordered in 1996. An order for 384 such missiles were placed and were delivered by 1999.

**Surface-To-Air Missiles**

- SA-6 (launchers): 160 - Two SA-6 Groups - 12 regiments.
  - SA-7 (launchers): 620 (being phased out).
  - SA-8b (launchers): 50
  - SA-10 (launchers): 24 (2-3 regiments being delivered/on order).
  - SA-13 (launchers): 250+
  - SA-16 (launchers): 2000+ (to cover 'blind-areas' for CAAD units, as well as being on issue to infantry battalions - six per battalion).
- \*Each AD Group - under each Strike Corps - will have one regiment each of ZRK-SD *Kub* (SA-6), OSA-AKM (SA-8b) and ZSU-23-4 or Tunguska-M1. India's indigenous SAMs - [Akash](#) and [Trishul](#) - are to be deployed as replacements for the SA-6 and SA-8 respectively and will enter service after successfully completing user trials.

**Surface-To-Surface Missiles**

- SRBM: Prithvi SS-150 - 15 launchers & 75 missiles in 333 Missile Group. More being delivered.

**Army Aviation**

- 14 Helicopter Units (300+ HAL Chetak and HAL Cheetah).
- \*Anti-Armour: ex-IAF Chetak.  
\*Observation/Liaison: HAL Chetak and HAL Cheetah.

**Surveillance**

- Unmanned Aerial Vehicles: Searcher, Nishant.
- Battlefield Surveillance Radar: BSR Mk.2 (locally built).  
.....ELTA EL/M-2140 BSR\*.
- Artillery Radar: [AN/TPQ-37](#) (Seven systems delivered as of July 2006 and remaining five to be delivered by late 2006)  
.....MUFAR - (Multi-Unit Field Artillery Radar; HAL-manufactured artillery radar)  
.....Rajendra (Primarily air defence, but also ideal for artillery location)  
.....Green Archer (Mortar location)  
.....[Cymbeline](#) (Mortar location)

\*SIPRI {Stockholm International Peace Research Institute} reported that 200 EL/M-2140 radar were ordered in 1999 and 25 were delivered by 2001. SIPRI also reported that 56 ELTA EL/M-2129 artillery radar were ordered in 1999 and five were delivered by 2001. However the EL/M-2129 is actually a Movement Detection & Security Radar (MDSR) and not an artillery radar. Jane's Defence Weekly (JDW) confirms this order and states that the deal included a transfer of technology, for local manufacture by [Bharat Electronics Limited](#). JDW also reported that 1022 man-portable radars and 30 battlefield surveillance radars has been acquired from the Israeli company, El-Op, in a deal signed in August 2002.

SIPRI's database reveals that 32 [Searcher](#) UAVs were ordered in 2000 and 16 systems were delivered by 2001. An earlier 1996 order for 12 Searcher UAVs was completed in 1998. SIPRI also reported that 40 [Harpy](#) anti-radar UAVs were ordered in 1997 and all 40 were delivered by 1999-2000. SIPRI reported that six [Heron-2](#) UAVs were ordered in 2001.

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