

## Tejas/Light Combat Aircraft (LCA) Fighter Aircraft - Manufactured by India

1. Tejas is a Lightweight Fighter Jet developed by Hindustan Aeronautics Limited (HAL). The aircraft was designed by the Defence Research Development Organisation (DRDO), Aeronautical Development Agency (ADA).
2. Tejas - Light Combat Aircraft (LCA) program was envisaged to replace the Russian MiG-21 fighter aircraft operated by Indian Air Force.
3. Tejas is a single-engine multirole fighter aircraft.
4. The LCA program was named Tejas in 2003.
5. As of 2020, Indian Air Force (IAF) has two squadrons of Tejas Mk 1 Aircraft located at Sulur, Tamil Nadu.

## Rafale Fighter Aircraft - Manufactured by France

1. Rafale is a twin engine manufactured by Dassault Aviation of France. It is primarily used by French Air Force.
2. Rafale fighter Jets will be operated by Indian Air Force, a deal was signed for 36 Rafale Fighter Jets. The deal was signed in 2016, it includes a package of spares and weapons including the highly acclaimed Meteor Beyond Visual Range Air to Air Missile (BVRAAM). Apart from Indian Airforce, Rafale has been chosen by Egyptian Air Force, Qatar Air Force.
3. Rafale fighter jets were used in combat operations in Afghanistan, Iraq, Syria, Libya, Mali.

## Sukhoi 30 Fighter Aircraft - Manufactured by Russia

1. Sukhoi 30 is a twin engine Fighter Jet manufactured by Sukhoi Aviation Corporation.
2. There are many variants of Sukhoi-30 aircraft, and the variant used by Indian Air Force is Sukhoi 30 MKI.
3. Apart from Russian and Indian Air Force, the other users of Sukhoi-30 aircraft are Algeria, China, Vietnam, Venezuela, Malaysia.
4. Sukhoi 30 MKI is the backbone of Indian Air Force. As of January 2020, India operates around 260 Sukhoi 30 MKI fighter jets. India has plans to buy more Sukhoi 30 MKI aircrafts, primarily to replace the ones lost due to accidents.

Some of the important specifications of Tejas, Rafale, Sukhoi-30 Fighter Jets are given in the below table

<b>Tejas</b>	<p>Engine - General Electric F404-E          Payload - 5,300 Kg          Combat Range - 500 Km          Maximum Speed - Mach 1.8          8 Hardpoints - The aircraft can carry different types of missiles and bombs in those 8 Hardpoints.          Radar - Elta ELM/M - 2052 Active Electronically Scanned Array Radar (AESA) Radar</p>
<b>Rafale</b>	<p>Engine - Snecma M88-2          Combat Range - 1850 Km          Maximum Speed - Mach 1.8          14 Hardpoints - Rafale can carry different types of missiles and bombs in those 14 Hardpoints.          Radar - Thales RBE2-AA Radar</p>
<b>Sukhoi-30</b>	<p>Engine - Saturn AL-31FL          Range - 3000 Km          Maximum Speed - Mach 2          12 Hardpoints - Sukhoi 30 can carry different weapons and bombs in the 12 Hardpoints.          Radar - Bars Planar Array Radar</p>

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