# AN AVOIDABLE WAR WITHIN

All was not well on the Indian defence scene as questions were raised on the leadership and integrity of some individuals and their decisions, besides anomalies in recruitment and other scandals

#### **Bv Dinesh Kumar**

By Dinnesh Kumar

I HE YEAR will be remembered for its negatives and controversies. This is unfortunate world's fourth largest military, is an important instrument of state power and is viewed to be central to India's amempt to seek greater power accommodation of its rise as both a regional and an economic power. This year's discourse was dominated by one major negative and controversy each, both linked to senior officers in the Army. For the first time in the armed forces' post-Independench istory, a serving service chief revealed anomaly in his date of birth as recorded at the mof recruitment and took a stand on insist-

time of recruitment and took a stand on insist-ing that this be 'corrected'. In addition to the question of whether it is morally appropriate for the Army Chief, General V. K. Singh, to seek a change in his date of birth towards the end of a change in its date of offint towards the end of his career and after having attained the top position, the issue, equally significantly, brought to fore anomalies in the functioning of the Army's Adjutant-General branch and the Mil-

to fore anomaties in the functioning of the Army's Adjuntar Ceneral branch and the Miltion's Secretary branch. How did these this 
form of the Committee of t



HIGH MORALE: The marching Indian Air Force personnel reflect the indefatigable spirit of the armed forces

ership. This cannot be cited as one-off con-isdering that the Army has and continues to be periodically rocked by scandals comprising noral, financial and professional corruption. It was not without reason that General V. S. Singh acknowledged on assuming the post of Army Chief last year that his service needs a coord attention to its 'internal health'. Not much was achieved on acquisitions and induction of new weapon systems and plat-forms. Many of these are still in the pipeline as part of a much-needed and delayed major modernisation plan envisaged to involve an expenditure of about \$50 billion by the end of the current decade. The Ministry of Defence ership. This cannot be cited as a one-off co

finally narrowed down its selection for the finally narrowed down its selection for the medium range combat aircraft (MRCA) to the European Fighter Aircraft and the French Rafale, both from Europe, Itinvolved the sur-prise rejection of the US F-16 and F-18 fight-res and also the MG-35 offered by India's traditional weapons supplier, Russia. A sig-nificant development was the US offer to involve India in the development of its most advanced fighter, the F-35, even a finds signed agreements with Russia for the co-develop-ment of a fifth-generation fighter aircraft. The Indian Air Force finally got its C-1301 Hercules transport aircraft bought explicitly, however, transport aircraft bought explicitly, however, to transport the Army's Special Forces.

Big-ticket weapon systems and platforms such as the 44,500 tome Russian Admiral Gorshkov (rechristened as INS Vikramaditya) and the French-made Scorpene submarines continue to await induction as does also the lease of a Russian nuclear-powered submarine, which has been delayed owing to a fire on board during sea trails. The Army continue in the Army continue militant violence in the North-East. The debate over abrogation of the Armed Forces Special Power Act (AFSPA) has added to the concerns of the Army, which is deeply engaged in counter-insurgency oper-

is deeply engaged in counter-insurgency oper-ations in the trouble-torn state.

In addition to the much-delayed induction of weapon systems, especially in the Army, all three armed forces continue to be plaqued by officer shortage. The issue is numerically acute in the Army, which continues to average a shortfall of about 11,500. The issue is qualitatively acute in the technology and capital-intensive Navy and Air Force, which operate sophisticated technology on bord articards, slips, subsearing on the efficiency of the services, especially in view of the increasing sophistication of weapon systems that require qualitatively superior and technology-savvy youth to lead, superior and technology-savvy youth to lead direct and operate such systems during war.

## The world in your hand

Computing became more than mainstream, it became personal. Mobile internet access became an agent of change that connected people far beyond their geographic limitations

#### By Roopinder Singh

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OMPUTERS are truly devices held in
millions of hands worldwide. They conmake it a global village. The world of
technology lost is is oni 2011, but Steve
Jobs left his mark for all to see. The computer came into our hands through smartphones and tablets this year. We had operating systems that competed with each
other, handware that out-specked its competition and even new applications that reinvented the old and gave it at twist. Such
was an embarrassment of riches that left
consumers happy, though bemused.
With India finally being recognised as
an important market, we saw product
releases that were synchronised with
international ones, and, at times, we got
products that other markets, especially

products that other markets, especially the US, did not have.

Everyone has a smart electronic gadget in their hands. Why, our honourable Members of Parliament, too, are getting sassistance to get and use tablets so that Par-liament can go significantly paperless. Not that much paper got used in the few sessions that the honourable MPs sat down

Not that much paper got used in the tew sessions that the honourable MPs sat down sessions that the honourable MPs sat down Job's baby, iPhone 4S, came four mouths later than expected. It was not bigger than its predecessor, and was not the much-awaited iPhone 5, but it still became a bestseller, and had enough new features — the fast AS processor, an improved camera and Siri, its voice-activated digi-al assistant — to make it stand out. 40 Ice Cream Sandwich from Google strut-ed its stuff, including the capability to unlock a phone through facial recognition. Hardware from Samsung, Motorola and others improved to an extent where smart

phones became faster than computers, and came with dual core processors. As for tables, our very own Aakash became the game-changer by breaking a price barrier and delivering functional tablets for less. For those who have more, the iPad 2 is still the market leader by a large margin. Yet, like the iPhone version only gained incrementally as it is sound to be a still the market leader by a large margin. Yet, like the iPhone version only gained incrementally as it is result in the properties of the properties of

with Android tablets nipping at its heels, Apple launched a barrage of suits against its rivals, even as Amazon came out with the Kindle Fire, an e-book reader that is much more, and Nook brought out its much more, and Nook brought out its most attractive product.

As consumption devices, tablets are now displacing laptops. Not that laptops are going extinct. Since people still have to work by upping on their keyboards.

— the very lini versions with flash—memory and the ability to start instantly. Apple's MacBook Air is one such device already available. Others in the Windows world are just on the horizon, with the backing them.

In a world dominated by slick and expensive tablet Aakash made news simply by being there, the only tablet that is available on sale online for Rs 2-500. Datawind, the company that assembles it, created quite a stir, and got more than four lakh orders from individual and corporate eustomers. Growing the company that assembles it, created quite a stir, and got more than four lakh orders from individual and corporate eustomers. Growing the stirt of the super moon which brought the moon closest to the earth in 19 years.

Mankind's quest for more information about planet Mars continued. NASA's



EN AAKASH IS THE LIMIT: The small and in the only tablet that is available for ₹2,500

probes worked at finding traces of life on the planet as a new \$2.5 billion nuclear-powerd rover was sent to the Red Planet in November. On the other hand, the Russian attempt to launch a probe failed, because of a mechanical problem with the rocket. A quest of another kind continued as the search for evidence of Higgs Boson con-tinued. It is also called 'The God Parti-cle' and is critical in our effort to under-stand the structure of matter. Did you

know that the sub-atomic particles

know that the sub-atomic particles, Bosons are named after the physicist Sayendra Nath Bose? Indian scientists continued to search the skies as they sent satellites skywards on Indian rockets. ISRO scored far more hits than misses in 2011 by adding might to the defence forces with successful testing of Prithy missile, and to India's space only reached for akash, we also held our very own Aakash in our hands.



A major breakthrough was achieved when scientists created a wonder drug which kills cancer. In fact, the medicine is believed to wipe out some of the most deadly forms of the disease. The KG5 drug is likely to be available in less than five years.

### MIG CRASHES MOUNT



aircraft took place this year, the most recent one being in Sirsa in Haryana. It was the fifth belonging to the MiG-21 series warplane. The IAF has decided use the MiG-21 aircraft out by 2017

#### BIG DEAL FOR THE FORCES



Medium-range combat aircraft have been shortlisted by the Ministry of Defence. Two European aircraft are in the final list. Also, India and Russia will collaborate for the fifth generation fighter aircraft.

#### OFFICER SHORTAGE



acute in the Army, which shortfall of about 11,500 which continues to average a

#### NEWSPICK



#### The God particle

European vision to scientists claimed that they are nuclear research is claimed to the they are nuclear than the contracting the elsewher litigat Boson, the "God particle" that confers mass on matter. It is thought to be one of the building blocks to the universe. But they are still some way from antart. It is thought to be one of the building blocks to the universe. But they are still some way from confirming the existence of a sub-though particle that is one of the cornerstones of modern physics. The CPRN blobanchup's floreness comment to the contraction of the confirming the existence of a sub-though are the contractions of the contrac have come closer than previous searches to detect ing the sub-atomic particle, whose existence was first hypothesised in the 1960s.



#### We may not be alone

Joservations by the Us space telescope kepler pin-obinited a planet orbitling another sun. It is the clos-st thing to Earth that has been detected to date. (kepler 22-b is about 24-d times the size of Earth and ise in the "Goldflicks zone" around its home star. Conditions on the new planet are neither too hot



#### Failed Red quest

In spite of half a century of sending probes to Mars, space engineers still have a shaky record of suc-cess. Out of the 38 Mars missions, 19 have suffered some kind of major flaw, a failure rate of 50 per cent. The latest victim of the Great Galactic Ghoul was the Russian Phobos-Grunt mission, which w ed to fly on a 10-month mission to Mars after its recent launch. Instead, it found itself stuck in orbit only a few hundred miles above the Earth.