

समाचार पत्रों से चयित अंश Newspapers Clippings

दैनिक सामयिक अभिज्ञता सेवा

A daily Current Awareness Service

Vol. 42 No. 249 11 & 12 November 2017



रक्षा विज्ञान पुस्तकालय

Defence Science Library

रक्षा वैज्ञानिक सूचना एवं प्रलेखन केन्द्र

Defence Scientific Information & Documentation Centre

मैटकॉफ हाऊस, दिल्ली 110054

Metcalfe House, Delhi- 110054

After Centre's go-ahead, IAF to fortify airbases

By Deepkamal Kaur

The Centre has given the go-ahead to the Indian Air Force (IAF) for installing the integrated perimeter security system at airbases across the country. This was stated here today by Air Marshal C Hari Kumar, Air Officer Commanding in Chief (AOC-in-C), Western Air Command.

He said the huge peripheral area of these IAF stations would be guarded by CCTV cameras and motion sensors. "Since it is a major contract, the equipment will be installed on priority at airbases with a high level of vulnerability, such as Pathankot. At the bigger stations, we have peripheral roads of 24-26 km and 3 km of runways where these installations would be done," the AOC-in-C said during a media interaction.

The Air Marshal said, "We are removing wild growth beyond the airbase perimeter walls on a regular basis. It's a cause of concern that expanding towns have come very close to IAF establishments."

On the scheduled launch of the civil airport at Adampur from December 1, the AOC-in-C said the IAF was helping the state government in its Udaan project. "There is a plan to extend the services from Adampur, Hindon and Pathankot airbases," he said.

President's visit on November 16

President Ram Nath Kovind is scheduled to visit the Adampur IAF station on November 16 for awarding the President's Standard to 223 Squadron and 117 Helicopter Unit. He will also release the first day cover of the squadron and the helicopter unit. Air Chief Marshal BS Dhanoa, Chief of the Air Staff, and other officers are expected to attend the ceremony. Invites have also been extended to the Punjab Governor and CM.



Army on LoC, Lac to Have Desi Eyes in Skies

By Rahul Dutta

The Army will have 'Make in India' "eyes in the skies" both at the Line of Control (LoC) with Pakistan and Line of Actual Control (LAC) with China for strengthening surveillance of cross-border terrorism and transgressions as also counter-insurgency operations in the hinterland. All the 600 infantry battalions manning the LoC and LAC apart from those deployed in the counter-terrorism grid will be equipped with mini-Unmanned Aerial Vehicles (UAVs). The project is worth Rs 1,000 crore.

The trials of the equipment, supplied by a dozen of odd competitors, began earlier this week. The Army expects to shortlist the ultimate vendor soon and the supplies are likely to begin within a year. The initial evaluation is on to determine if the UAVs meet the technical specifications as mentioned by the Army in its tender. The project is 'Buy India', meaning the Army will procure UAVs manufactured only by Indian vendors. It will be the first big deal to be inked under this category, sources said here on Friday.

The mini-UAVs, weighing about 35 kg, can fly at height of over 4,000 to 5,000 metres and have a range of 10 km. They will be the armed forces' eyes in the skies, sources said adding it means, the battalion commanders can get real-time information about movement of terrorists towards the LoC and transgressions by the Chinese Army into India at the LAC.

The UAV can be controlled from a system carried in a backpack of a soldier and the commander just has to view the pictures generated by the “eye in sky” on a laptop or palm-sized screen, they said.

Every battalion (1,000 soldiers) manning the 750-km long LoC in Jammu & Kashmir will get one UAV each. The same formula will be followed for the battalions guarding the 4,000 km long LAC touching States like Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Sikkim and Arunachal Pradesh. As per records, nearly 350 transgressions by the Chinese Army take place every year mostly in Ladakh, Sikkim and Arunachal Pradesh. The armies of the two countries had recently engaged in a face-off in Doklam in Sikkim for nearly 72 days and ultimately withdrawn after diplomatic and political interventions at the highest level in both the governments.

Able to loiter for more than 120 minutes at a range of 10 km, the UAVs will relay images as they are happening, thereby, giving enough time to the Indian Army deployed at the LAC to prevent transgressions, officials said.

Similarly, these UAVs will give more teeth to the operational commanders for dealing with infiltration from across the LoC, backed by the Pakistan Army and ISI. Moreover, the battalions guarding the LoC will get better “situational awareness about” any Pakistan Army build up or activity, they said.

The Rashtriya Rifles(RR) battalions, part of the Army, engaged in counter-insurgency operations will also be equipped with the UAVs for dealing with militancy mostly in Jammu and Kashmir as the RR are deployed there.

This acquisition will enhance the capabilities of the infantry which for the past few years is grappling with obsolete equipment including rifles, carbines, light and medium machine guns.

पंजाब केसरी

Sat, 11 Nov, 2017

भारत के साथ स्थायी रक्षा संबंध विकसित करे पेंटागन

वाशिंगटन, (भाषा): अमेरिका सांसदों ने पेंटागन से कहा है कि वह भारत के साथ स्थायी रक्षा संबंध विकसित करने के लिये अग्रोन्मुखी रणनीति बनाये। संसद के नेतागण राष्ट्रीय रक्षा प्राधिकार कानून (एनडीए-2018) पर दोनों सदनों के बीच मतभेदों को दूर करने के लिये बैठक कर रहे थे। उन्होंने अमेरिका और भारत से अफगानिस्तान में और सहयोग के साथ काम करने को कहा। एनडीए-2018 के नए संस्करण में रक्षा मंत्री को मौजूदा उद्देश्यों और लक्ष्यों पर तैयार एक अग्रोन्मुखी रणनीति विकसित करने की जरूरत है, जिसमें भारत के साथ एक स्थायी रक्षा संबंध विकसित करने की परस्पर इच्छा पर जोर हो।

इसके मुताबिक अमेरिका और भारत को क्षेत्र में स्थायित्व को बढ़ावा देने के लिये अफगानिस्तान में मिलकर काम करना चाहिये जिससे



अमेरिकी सांसदों ने की मांग

- प्रमुख रक्षा साझेदार दर्जे से भारत और अमेरिका के बीच संयुक्त अभ्यास, रक्षा रणनीति और नीति समन्वय, सैन्य आदान-प्रदान को बढ़ावा मिलेगा

वहां लक्षित आधारभूत विकास और आर्थिक निवेश हो सके।

पिछले एनडीए-2017 में अमेरिकी संसद ने भारत को एक

प्रमुख रक्षा साझेदार बताया था। अपनी नवीनतम रिपोर्ट में गुरुवार को संसदीय नेताओं ने कहा कि प्रमुख रक्षा साझेदार का यह दर्जा खास भारत के लिये है और भारत तथा अमेरिका के बीच रक्षा व्यापार और तकनीकी सहयोग को एक संस्थागत रूप देता है। यह इसे उस स्तर तक ले जाता है जो अमेरिका के सबसे करीबी सहयोगियों के लिये है।

इसमें कहा गया, इस एनडीए-2018 के पुनः संकलित संस्करण को अब औपचारिक अनुमति के लिये दोनों सदनों में भेजा जायेगा और इसके बाद इसे राष्ट्रपति डोनाल्ड ट्रंप के अंतिम हस्ताक्षर के बाद कानून बनाने के लिये व्हाइट हाउस भेजा जायेगा। दूसरी चीजों के साथ इसमें विदेश मंत्री रेक्स टिलरसन और रक्षा मंत्री जिम मैटिस से अमेरिका और भारत के बीच रक्षा सहयोग को बढ़ावा देने के लिये रणनीति विकसित करने को कहा गया है।

US 'accessed' Russian sub in India

Newspaper report triggers diplomatic row, another portal denies

A Russian newspaper last night created a diplomatic row between India, Russia and the US. The matter was sorted out this morning when another Russian news website termed the information given out by the newspaper as incorrect and blamed French lobbyists for spreading misinformation. Yesterday, Russian newspaper "Kommersant" reported on its website that the Indian Navy had allowed a US technical crew into top secret compartments of India's existing Russian-built nuclear submarine, the INS Chakra.

The Kommersant referred to this as "an unprecedented scandal" and said the incident "threatened to seriously complicate negotiations (between India and Russia for another nuclear submarine)".

The newspaper said it was a violation of the terms of the contract between India and Russia. India leased the Chakra, an Akula-class submarine, in 2012 for a period of 10 years for almost \$700 million. The ownership of the vessel rests with the Russians.

Kommersant had cited US-based website 'strategypage.com' saying: "Moscow suspects that despite the leasing conditions prescribed in the contract, Delhi allowed representatives of the US Navy to the Chakra submarine, who got acquainted with its internal systems."

Akula is globally regarded as top-of-the-line submarine. Today, a Russian news portal, NEWS.ru, debunked the account of the Kommersant and blamed French lobbyists for spreading misinformation to further their own chances of selling a nuclear-powered attack submarine to India.

News.ru quoted a source saying: "In addition to the contract for the construction of non-nuclear boats such the Scorpene (now being inducted by the Indian Navy,) the French have a great desire to enter the Indian nuclear fleet."

Sources in India denied that a team of US submarine specialists visited the Chakra, believed to be based out of Vishakapatnam on the east coast. A Russian diplomat said that Russia and India were time-tested friends. "There are mechanisms to sort out such issues. Normally, between two friends you avoid doing things that the other dislikes. We are trying to ascertain facts though, have only read reports. But the matter, if true, will likely be taken up at the various mechanisms of military commissions or between the defence ministries."



Superpowers meet

Trump, Putin meet in Vietnam; Kremlin says US and Russia look to hammer ISIS in Syria

The United States and Russia agreed on Saturday to cooperate to defeat the ISIS terror army, and backing a set of principles related to forcing a resolution to the bloody civil war in Syria. A statement from the Russian government — which the White House is yet to confirm — says presidents Donald Trump and Vladimir Putin met 'on the sidelines' of Asia-Pacific Economic Cooperation summit in Da Nang in Vietnam.

It also says Russia and the US are committed to keeping lines of communication open in order to 'prevent dangerous incidents between American and Russian military forces' while the US and its allies are fighting ISIS. Trump and Putin both attended the APEC leaders' summit on Saturday, and were pictured talking and shaking hands before it began. Trump told reporters later aboard Air Force One that the pair had

‘two or three very short conversations’ during the summit. Trump did most of the talking, according to a person who witnessed the conversation. An English translation of a Russian-language version of the statement issued afterward says the two leaders ‘confirmed their determination to defeat ISIS in Syria’.

It also confirmed that the US and Russia agree that ‘the conflict in Syria cannot have a military solution’. Instead, the White House and the Kremlin are committed to forcing Syrian strongman Bashar al-Assad to engage in a political transition out of power, as dictated by a resolution the United Nations Security Council passed in December 2015. The resolution demanded a ‘free and fair’ election by a deadline that passed in June 2017. Trump and Putin also discussed ‘de-escalation zones’ in Syria, which the Assad regime has largely ignored and continues to strike with impunity.

The Kremlin published a Russian-language ‘joint statement’ on its website on Saturday afternoon while Trump and Putin were attending the APEC meeting. It was negotiated behind the scenes in Da Nang by US secretary of state Rex Tillerson and Russian foreign minister Sergey Lavrov. White House press secretary Sarah Huckabee Sanders had told reporters on Friday that Trump and Putin would not meet in Vietnam. “Regarding a Putin meeting, there was never a meeting confirmed, and there will not be one that takes place due to scheduling conflicts on both sides,” Sanders said aboard Air Force One.

“There is no formal meeting or anything scheduled for them. Now, they’re going to be in the same place,” she said. “Are they going to bump into each other and say hello? Certainly possible and likely.” The press was largely shut out of the Intercontinental Da Nang Sun Palace resort where 21 world leaders met on Saturday.

पंजाब केसरी

Sun, 12 Nov, 2017

अमेरिका व दक्षिण कोरिया ने शुरू किया सैन्य अभ्यास

सोल, (एपी): अमेरिका और दिनों तक चलने वाला यह सैन्य अभ्यास आज दक्षिण कोरिया के रहे हैं। तीनों विमानवाहक पोतों के दक्षिण कोरिया ने संयुक्त नौसेना अभ्यास शुरू किया है जिसमें तीन पूर्वी तट पर शुरू हुआ। दक्षिण कोरिया की सेना के अनुसार सोमवार तक एक साथ रहने की अभ्यास शुरू किया है जिसमें तीन पूर्वी तट पर शुरू हुआ। दक्षिण कोरिया की सेना के अनुसार संभावना है वर्ष 2007 के बाद यह अमेरिकी विमानवाहक पोत भी शामिल हो रहे हैं। रक्षा अमेरिका के तीन पोत - यूएसएस पहला मौका है जब अमेरिका के अधिकारियों के अनुसार यह रोनाल्ड रीगन, यूएसएस थियोडोर तीन युद्धपोत एक साथ पश्चिमी अभ्यास उत्तर कोरिया के लिए रुजवेल्ट और यूएसएस निमिडज प्रशांत में होंगे। स्पष्ट चेतावनी का संकेत है। चार शनिवार से मंगलवार तक चलने

MAIL TODAY

Sun, 12 Nov, 2017

N Korea Says Trump Is Eager For Nuclear War

The North Korean government said on Saturday that Donald Trump’s first trip to Asia showed he’s itching for all-out Armageddon on the Korean peninsula. “Trump, during his visit, laid bare his true nature as destroyer of world peace and stability and begged for a nuclear war on the Korean peninsula,” the hermit nation’s foreign ministry spokesman said in a statement carried by the state news agency.

“Trump made his conceived attempt yet again to alienate our people from the government,” he said.

The North Korean spokesman said it will not be possible to deter Pyongyang from pursuing a fully fledged nuclear weapons program. The US president said on Wednesday in Seoul, South Korea, that the ‘sinister regime’ to the North has become a dangerous menace, and warned dictator Kim Jong-un not to test his patience.

“Today, I hope I speak not only for our countries, but for all civilised nations, when I say to the North: Do not underestimate us. And do not try us,” he told South Korea’s National Assembly in an impassioned speech.



Sun, 12 Nov, 2017

Israel downs Syrian drone over Golan

‘It was on a reconnaissance mission’

The Israeli Army said it had shot down a Russian-made Syrian drone carrying out a reconnaissance mission over the Israeli-occupied Golan Heights on Saturday.

The drone was intercepted by a Patriot missile in the demilitarised zone between the Israeli-and Syrian-controlled parts of the Golan, a military spokeswoman said in a statement.

“The State of Israel regards with utmost seriousness any violation of its sovereignty and will respond with force to any provocation,” Israeli Defence Minister Avigdor Lieberman said in a statement. “We will not allow the consolidation of a Shia axis in Syria” as a base for operations against Israel, he added, referring to the presence of Iran and Lebanese militant group Hezbollah in the war-torn neighbouring country.

Israel seized 1,200 square km of the Golan Heights from Syria in the Six-Day War of 1967 and later annexed it. In September, Israel’s military shot down what it said was an Iranian-made drone operated by Hezbollah on a reconnaissance mission over the Golan.



Sat, 11 Nov, 2017

Go green

By Nilakshi Sharma

Clean air has become a luxury for people in the Delhi-NCR region today. But along with the toxic levels of pollutants in the air, we also have to contend with indoor pollution that is typical within our homes. Indoor pollution, a cocktail of toxins such as formaldehyde, xylene, toluene, benzene, carbon monoxide, ammonia, trichloroethylene, mould, etc., is generated from a host of sources such as furniture, chemicals in cleaning products, lack of sunlight, vehicle exhaust, etc.

While there is not much that we can do about the toxic Delhi air, we can reduce the levels of indoor pollution with the help of plants, according to studies done by NASA scientists. Please note that none of them will help you in your fight against Particulate Matter (PM). However, when the pollution levels are this high, every little bit that helps eliminate any kind of toxin from the air you breathe helps. So here are five plants that NASA recommends in the fight against indoor pollution:

Spider plant (Chlorophytum Comosum) - This is a relatively easy to care for plant that also works well in hanging baskets. Requires a bit of natural light but grows better without exposure to direct sunlight.

Requires little maintenance other than watering required two to three times a week. **Eliminates:** Formaldehyde, xylene and carbon monoxide

Snake plant (Sansevieria Trifasciata)

This delightfully-named plant not only eliminates toxins but also absorbs carbon dioxide throughout the night and release oxygen, making it a great choice for the bedroom. Needs very little watering and the occasional exposure to direct sun. It is such a hardy houseplant and so difficult to kill that colloquially it has also been nicknamed as the Mother-in-law's tongue!

Eliminates: Formaldehyde, benzene, xylene, ammonia and trichloroethylene

Peace Lily (Spathiphyllum)

If you prefer your cleanliness with a side of beauty, then this is one that you will like. In summers, these plants will also delicate scent the air of your home when the lilies are in bloom. Just place the pot in a shaded spot and the soil should always be moist but guard against overwatering. However, these plants can be toxic for small children and pets.

Eliminates: Formaldehyde, benzene, xylene, ammonia and trichloroethylene

Red Edged Dracaena (Dracaena Marginata)

Visually arresting, this evergreen foliage plant has beautiful deep red edges on the green leaves. It can grow to be very tall; so regular pruning is a must. In terms of maintenance, avoid water logging but keep the soil damp. Do not let pets chew on it as it can be slightly toxic for them.

Eliminates: Formaldehyde, xylene, toluene, benzene, and trichloroethylene

Devil's Ivy or Golden Pothos (Epipremnum Aureum)

Considered very easy to maintain, this plant is great for those who are not sure if their thumb is green. It grows well without being fussy about conditions like light and shade. It needs to be watered only when the soil is dry. Regular trimming is required as this plant can thrive to grow a lot. It is also fabulous at filtering out a great amount of toxins. Again, it can prove toxic for pets who chew on it.



Sat, 11 Nov, 2017

Take a breather

By Nilakshi Sharma

In today's toxic environment, wearing a face mask can help you breathe better. But choosing the right mask that gives protection against pollutants is important

When the air turns toxic, face masks are no longer an indulgence but a necessity. The schools might be shut and advisories to stay at home might be issued but you can hardly spend all winter barricaded in a room with the air purifier on high. So masks are your best option for lessening the amount of toxins you breathe in. But buying the right mask can be tough as it involves navigating a bewildering amount of information. Here is a quick look at the basics of selecting the right mask.

What does it do?

A mask is meant to filter out airborne particles, dust and toxic gases, such as Sulfur Dioxide (SO₂) and Nitrogen Dioxide (NO₂). The most harmful pollutants are the Particulate Matter (PM). Delhi air is replete with both PM₁₀ and PM_{2.5}. They are both so fine that their diameter is measured in micrometers or microns and compared to human hair for scale. Filtering these out requires sub-micron filters. So how do you know

whether the mask can filter out PM and other toxins? For this you need to check the certification and rating of the mask. Ideally, you need a mask with the right N

N100, N99 & N95: These are ratings based on the requirements specified by the US agency - National Institute for Occupational Safety and Health (NIOSH). The N category of respirators is good enough for dealing with the Delhi air. Other NIOSH categories for respirators are the R-series and P-series, which are for filtration of oils and oil vapours. The filter ratings for the N-series refer to the percentage efficiency at filtering out particulates from the air you breathe. N 100 filters out 99.9% of particulates, the N 99 filters out 99% and the N95 filters out 95%. All three will filter out the deadly PM2.5. N99 and N100 will also offer protection against PM finer than PM2.5.

EN 149 FF1, FF2 & FFP3: This is a rating scale by the European Union. FFP3 is rated the highest in terms of protection.

CV: The C stands for carbon and the V stands for valve. An activated carbon filter helps in filtering out pollutants like Ozone and SO₂. The builtin valve is for exhaling air. Masks are available in single and double valve variations. The single valve is fine for use while you are sedentary. But a double valve is what you should opt for if you are going to be physically active while wearing the mask. So a C2V listing means a mask with an activated carbon filter and 2 valves. Each filter, i.e., mask has a particular life after which the mask needs to be replaced or the filters replaced, if you opt for a mask where the filters can be replaced (so far these are being offered by very few companies). Usually the mask comes with a usage timeline recommendation - such as 80 hours of use. But given the catastrophic levels of pollution in Delhi, these recommendation may be generous. A good, simple rule of thumb is that when you have to exert to inhale, then your mask is ready for a change because the filter is beginning to be clogged.

The Right Choice

Once you have chosen the rating that is appropriate for you, the next step is determining what size of the mask to buy. The best filters on the mask can be rendered useless if the fit is wrong and air is getting in from the

sides. Typically, most mask companies will recommend sizes based on your weight. But some have also started offering charts based on the centimetres length and breadth of the area that the mask should cover. Typically, a mask will sit high

on the bridge of your nose, and the thin metal band in the mask in that section should be moulded gently by your fingers to ensure a good fit. At the bottom, the mask should sit snug just below the curve of your jawline. The ear straps should be comfortable without being tight or loose. Ideally, go to the shop and try the fit before purchasing.

The second factor to keep in mind when choosing the mask is the level of activity you will be undertaking when wearing the mask. The number of valves determines the rate at which you can exhale without your mask becoming uncomfortable humid. If you are using one while driving, then a single valve is adequate. If you want to go for a walk, opt for a double valve. If you are going to be engaging in sporting activity such as running or cycling, then choose the masks that are specially designed for sports. Typically these will be made of light weight material and they are designed to remain snug through a more vigorous range of motion.

In terms of ratings, generally speaking the N95 rating will be a better choice as the filter will be slightly less dense than in the N99 and N100 masks. So when you are physically active, you will find it easier to breathe in the N95 mask and this in turn will also mean less moisture inside the mask. It is important to understand that masks are an emergency measure.

Ultimately, no face mask can be 100% effective. There will always be some leakage; from around the face seal, the valve and even filter penetration. Nor can you wear a face mask continuously for 24 hours a day. We do need to look for policy and personal solutions to clean our air.

Surrendering to the Universal Rhythm

By Shri Shri Anandamurti

The average of rhythm of all rhythms – rhythm of body, mind and soul, body's individual organs and such – is called individual rhythm. The individual entity has five koshas, layers of mind, rather like a plantain flower. Similarly, this universe is the collective form of countless vibrations and rhythms. Every animate and inanimate object of creation emanates its own vibrations – mountains, rivers, forests, none is mute; none is silent. Each of them is resounding with an inexplicable eternal vibration, as if in deep meditation.

The collective rhythm of all rhythms emanating every moment, from countless objects of the cosmic imagination is called “universal rhythm”. The existence and growth of finite, living entities are dependent on this universal rhythm, whether they realise it or not. A microcosm, due to its limited capacity, cannot fully grasp this universal rhythm, although it tries to do so.

To catch the vibration of this vast, endless universal rhythm, the microcosms will have to unify all the capacity of their sensory and motor organs and their minds. Only then will they be totally identified with the universal rhythm and become absorbed in blissful vibration. The auspicious moment when the small ‘i’ and big ‘I’ are harmoniously united, will result in the restlessness of the ‘i’ coming to a standstill. The result will be an unending flow of bliss in the cosmos.

How can we understand that there is a spiritual link between the unit and universal rhythms? In daily life, everyone realises that if their lives are troubled, their dear and near ones will feel great pain, whereas, if their lives are filled with joy, their relative will be happy, too. Sometimes we feel a kind of pain in our hearts when we see the pale, sickly faces of those who are not even related to us. Sometimes people forget their enmity out of deep sympathy for their sworn enemies. Who does not like the spontaneous joy of the innocent faces of children? This is all due to the invisible spiritual link between unit rhythm and universal rhythm.

Those who are able to connect themselves with the universal rhythm will attain permanent composure. Their existence will acquire a new meaning. If we call this endless, vibrating rhythm of the macrocosmic Entity as Paramarasa, then the individual rhythm of the microcosm should be called svarasa. The significance of sadhana is to merge the individual flow into the macrocosmic flow. Those who seek to attain freedom from afflictions, have no other way than to follow this path of sadhana. Jivanmuktas, liberated souls, are truly blessed individuals.

How is this unification of the unit flow with the cosmic flow possible? It is only possible through sadhana. When sadhakas ideate on the Supreme, their individual flow tries to maintain a parallelism with the universal rhythm. The bridge connecting the unit rhythm with the cosmic rhythm is the mantric, incantative rhythm.

The individual rhythm vibrated by the incantative rhythm rushes to be united with the universal rhythm. When the unit entity feels the existence of the universal rhythm and yet fails to attain Him, it feels a psychic affliction ... But the wavelength of unit mind will increase by intensive efforts and one day will be one with that universal rhythm and will finally merge in the Macrocosmic wave. This merger is termed “self-surrender”.