

Vaccine, therapeutic drug development for COVID-19 going on: DRDO Chairman

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NOIDA: The Defence Research and Development Organisation (DRDO) is working on a vaccine and therapeutic drugs, while also making sanitiser, special masks and protective gear to combat COVID-19, its chairman G Satheesh Reddy said.

Reddy said the DRDO, a government agency charged with the military's research and development, has made and distributed over five lakh bottles of sanitizer so far and was producing 30,000 masks daily and the capacity would go up to 60,000 soon.



DRDO Chairman Satheesh Reddy (File Photo | EPS)

The DRDO is making special N-99 masks, besides personal protective gear for chemical, biological, radiation and nuclear-related activities, and working on software, including one that will track people under quarantine.

He shared the various initiatives and activities being conducted by the DRDO to tackle the spread of COVID-19 during a video conference with a private university here on Thursday.

"Lot of efforts are going on to make therapeutic medications. The entire nation is contributing and DRDO plunged into activities right from day one taking up the cause," Reddy, also the Secretary to the Department of Defence Research and Development, said.

"We started by preparing sanitiser at our labs in Gwalior and Delhi with our own formulations and we are working with industries also. More than five lakh sanitizer bottles have been distributed across the country. Labs across the country have been given the formulations who are further producing them locally," he said during the webinar organised by the Amity University, Noida.

The distinguished scientist said many instruments and machines used for sanitization are also being prepared and distributed, while special innovations have been done for baggage screening at airports.

"We have also developed a mask called N-99 with better levels of filtration and are also producing 30,000 masks every day. We also developed multiple fabrics for PPE and in the last one month, we have developed three types of PPE. We have also created a complete face shield at DRDO. We are also making a large number of ventilators, including a mechanism where one ventilator can be used for multiple patients," Reddy was quoted as saying in a statement.

"We are also working on creating much software, including one that is tracking people in quarantine. We have also created secure video-conferencing software. Vaccine development and therapeutic drug development is also going on," he shared.

Reddy was joined by Ashok K Chauhan, the founder president of the Amity Group, Amita Chauhan, the chairperson of Amity Schools, and William Selvamurthy, a former DRDO scientist currently working with the city-based university.

<https://www.newindianexpress.com/nation/2020/may/08/vaccine-therapeutic-drug-development-for-covid-19-going-on-drdo-chairman-2140879.html>

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<https://timesofindia.indiatimes.com/india/vaccine-therapeutic-drug-development-for-covid-19-going-on-drdo-chairman/articleshow/75630444.cms>



Working on vaccine, drugs to fight Covid-19: defence research body Chairman

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<https://www.ndtv.com/india-news/coronavirus-india-working-on-vaccine-drugs-to-fight-covid-19-drdo-chairman-g-satheesh-reddy-2225714>





Sat, 09 May 2020

कोविड-19 को लेकर टीके और दवा के विकास पर चल रहा है काम-DRDO

- डीआरडीओ का कहना है कि कोरोना वायरस के टीके और दवाई को लेकर काम चल रहा है।
- देश में कोरोना संक्रमितों की संख्या 55 हजार के पार हो गई है।

नोएडा: रक्षा अनुसंधान एवं विकास संगठन (डीआरडीओ) कोविड-19 महामारी को लेकर टीके और दवा के विकास पर काम कर रहा है। इसके साथ ही संगठन सैनिटाइजर, विशेष मास्क और सुरक्षात्मक उपकरण बनाने के काम में भी लगा है। डीआरडीओ के अध्यक्ष जी सतीश रेड्डी ने यह बात कही।

उन्होंने कहा कि डीआरडीओ अब तक सैनिटाइजर की पांच लाख बोतलें तैयार और वितरित कर चुका है। साथ ही हर रोज लगभग 30 हजार मास्क बना रहा है और यह क्षमता जल्द ही 60 हजार तक पहुंच जाएगी।

डीआरडीओ रासायनिक, जैविक, विकिरण और परमाणु संबंधित गतिविधियों को लेकर सुरक्षात्मक उपकरण बनाने के साथ ही एन-99 मास्क भी बना रहा है। इसके अलावा यह सॉफ्टवेयर पर भी काम कर रहा है जिसकी मदद से क्वॉरंटाइन में रह रहे लोगों पर नजर रखी जाएगी।

उन्होंने गुरुवार को यहां एक निजी यूनिवर्सिटी के साथ वीडियो कॉन्फ्रेंस के दौरान कोरोना वायरस की रोकथाम के लिए डीआरडीओ की ओर से चलाई जा रही विभिन्न पहलों और गतिविधियों की जानकारी दी।

रेड्डी रक्षा अनुसंधान एवं विकास विभाग के सचिव भी हैं। उन्होंने कहा, “उपचार संबंधी दवा के विकास के लिए अनेक प्रयत्न किए जा रहे हैं। पूरा देश योगदान दे रहा है और डीआरडीओ संबंधित उद्देश्य के लिए शुरुआती दिन से ही काम में लगा है।”

<https://www.abplive.com/news/india/drdo-says-that-work-is-going-on-for-the-coronavirus-vaccine-and-medicine-1391932>

इंडिया

ज्ञान पसार एवम् विस्तार
के 50 वर्ष

Sat, 09 May 2020

कोचीन हवाई अड्डे पर डीआरडीओ के यूवी आधारित लगेज डिसइन्फेक्टर सिस्टम से सामान को किया जा रहा डिसइन्फेक्ट

केरल में डीआरडीओ की एनपीओएल प्रयोगशाला ने रिकार्ड समय में कोचीन अंतर्राष्ट्रीय

हवाई अड्डे पर एक यूवी आधारित लगेज डिसइन्फेक्टर सिस्टम तैयार किया है।

इस सिस्टम से सामान को सेनेटाइज किया जाता है।

राजीव रंजन

नई दिल्ली: केरल में डीआरडीओ की एनपीओएल प्रयोगशाला ने रिकार्ड समय में कोचीन अंतर्राष्ट्रीय हवाई अड्डे पर एक यूवी आधारित लगेज डिसइन्फेक्टर सिस्टम तैयार किया है। इस सिस्टम से सामान को सेनेटाइज किया जाता है। वंदे भारत मिशन के तहत विदेशों में फंसे जो भारतीय कोचीन उतर रहे हैं उनके सामान को डिसइन्फेक्ट किया जा

रहा है। कोचीन हवाई अड्डे पर यह कीटाणुनाशक प्रणाली पूरी तरह से ऑटोमेटिक है। इसमें दो स्टेज में डिसइन्फेक्शन होता है। पहले चरण में सोडियम हाइपोक्लोरेट और दूसरे चरण में यूवी किरणों से सामान को गुजरना होता है। इसे डीआरडीओ ने कोचीन हवाई अड्डे और भारतीय नौसेना के लिए तब डिजाइन किया था जब कोरोना महामारी शुरू हुई थी। ऐसे सिस्टम केरल के बाकी तीनों हवाई अड्डे कुन्नूर, कोझीकोडे और तिरुवनंतपुरम में लगाने को कहा गया है।

एनपीओएल के निदेशक विजयन पिल्लई ने कहा कि कोचीन अंतर्राष्ट्रीय हवाई में सिस्टम स्थापित किया गया है वह एक यूवी बैगेज स्कैनर का विस्तार है जिसे भारतीय नौसेना के लिए और हमारे स्वयं के उपयोग के लिए भी विकसित किया जा रहा है।



डीआरडीओ ने एक यूवी आधारित लगेज डिसइन्फेक्टर सिस्टम तैयार किया है।

बता दें कि कोरोनावायरस की वजह से देश में जारी लॉकडाउन के कारण विदेश में फंसे भारतीयों को वापस लाने

का अभियान शुरू किया जा चुका है। सरकार ने इसे 'वंदे भारत मिशन' नाम दिया है। 'वंदे भारत मिशन' के तहत अबू धाबी और दुबई से 363 भारतीय आज वापस स्वदेश लाए गए। दोनों विशेष उड़ानें गुरुवार रात केरल में लैंड हुईं। भारतीय नागरिकों को लेकर एयर इंडिया एक्सप्रेस का पहला विमान गुरुवार को अबू धाबी से केरल के कोच्चि पहुंचा।

विमान ने अबू धाबी से कोच्चि के लिए शाम 5:07 बजे (स्थानीय समयानुसार) उड़ान भरी। वहीं, दूसरी फ्लाइट दुबई से शाम 5:46 बजे (स्थानीय समय) कोझिकोड के लिए रवाना हुई थी। एयर इंडिया एक्सप्रेस के प्रवक्ता ने बताया कि चार नवजात शिशुओं और 177 यात्रियों को लेकर पहला विमान रात 10 बजकर नौ मिनट पर कोच्चि के अंतरराष्ट्रीय हवाई अड्डे पर उतरा। केरल सरकार के एक अधिकारी ने बताया कि वापस लौटे नागरिकों को उनके संबंधित जिलों में प्रशासन द्वारा तैयार क्वारंटाइन सेंटरों में रखा जाएगा।

<https://khabar.ndtv.com/news/india/disinfecting-of-goods-of-indians-returning-from-abroad-with-uv-based-luggage-disinfectant-system-of-drdo-at-cochin-airport-2225675>

SMBSTORY

Sat, 09 May 2020

DRDO partners with Noida-based manufacturer to launch contactless hand sanitiser

OakMist, the touchless hand sanitising dispenser can sanitise 1,000 hands at a time.

Rashtrapati Bhavan, PMO, SC and MHA have been equipped with the product

By Bhavya Kaushal

Measures like social distancing, wearing masks and sanitising hands have become a part of our daily routine, thanks to COVID-19, and they will remain an important part of the 'new normal' even in the post pandemic era.

Indian defence manufacturing company Defence Research and Development Organisation (DRDO) in partnership with Noida-based company and its industry partner, Riot Labs, has come up with a contactless sanitiser dispenser called OakMist to tackle the issue of sanitation in the country.

Speaking to SMBStory, Shishir Gupta,



CEO and Co-founder of Riot Labz, said that the concept, technology and design of the product were developed by DRDO and Riot Labs was asked to develop the final product. OakMist was manufactured in the company's manufacturing unit in Noida in a span of three days.

Shishir says, "It was observed that many people were sanitising their hands but in the process, they were touching the dispenser too many times. To counter this situation, we came up with a contactless hand sanitising dispenser."

How it works?

When employees enter a building, office complex, or a hospital, they are supposed to keep the hand below the dispenser which senses the hand and automatically sprays an alcohol-based hand rub solution.

The product is priced between Rs 7,940 and Rs 12,990 and has a capacity of five litres. Each time, the dispenser sprays, it lets out five millilitres of the solution. OakMist can sanitise around 1,000 hands at a time. Depending on the size of the organisation, one dispenser can last for minimum one day and maximum two weeks.

Oakmist was launched on May 1 but is yet to hit the retail stores, both online and offline. However, it will soon be listed on ecommerce platforms, Amazon and Flipkart as well. Currently, Rashtrapati Bhavan, Prime Minister's Office, Supreme Court and the Ministry of Home Affairs have been equipped with it.

Shishir says that he aims to make it available across the country in both government as well as private organisations. He, however, added that the product will not be open for exporting now and the company will focus on meeting the domestic demand first.

https://yourstory.com/smbstory/drdo-partners-noida-based-manufacturer-contactless-hand-sanitiser?utm_pageloadtype=scroll

THE HINDU

Fri, 08 May 2020

Govt. mulling mass production of medical items

Expert panel set up to link PSUs with technology providers

Thiruvananthapuram: The government has constituted an expert committee to submit recommendations for the manufacture of medical devices and equipment by State-owned enterprises.

This follows an interaction by Industries Minister E.P. Jayarajan with experts representing various institutions that develop and manufacture medical equipment. The expert committee will look into the possibility of mass manufacture of items such as ventilators and baggage disinfection scanners for the present campaign against COVID-19 as well as in the long term.

Representatives of Vikram Sarabhai Space Centre (VSSC), Naval Physical and Oceanographic Laboratory (NPOL), HLL Lifecare and other institutions informed the government that they were ready to join hands with public sector units for the initiative. The meeting decided to equip the Kerala State Drugs and Pharmaceuticals for large scale manufacture of generic drugs.

CSIR-National Institute for Interdisciplinary Science and Technology Director A. Ajayaghosh, VSSC Director S. Somanath, Group Director of NPOL Sameer Abdul Azeez, Rajiv Gandhi Centre for Viotechnology scientist Iyep Joseph, Director of HLL Lifecare E.A. Subramanian, and managing directors of public sector KSDP, Keltron, Kerala Electricals and Allied Engineering Limited and Steel and Industrial Forgings participated in the meeting. Principal Secretary of Industries K. Elangovan and senior officials were present.

<https://www.thehindu.com/news/national/kerala/govt-mulling-mass-production-of-medical-items/article31528308.ece>

Working for development of Vaccine for Corona

కరోనా వ్యాక్సిన్ అభివృద్ధికి రాజ్‌లేని కృషి

» డీఆర్‌డీవో చైర్మన్ సతీశ్‌రెడ్డి

నోయిడా(యూపీ), మే 8: కరోనా వ్యాక్సిన్, ఔషధాల అభివృద్ధికి రాజ్‌లేని కృషి చేస్తున్నట్లు రక్షణ పరిశోధన అభివృద్ధి సంస్థ(డీఆర్‌డీవో) చైర్మన్ జి.సతీశ్‌రెడ్డి తెలిపారు. వీవీఈలు, శానిటైజర్లు, ఎన్-99 మాస్కుల రూపకల్పనపైనూ దృష్టిసారించినట్లు వెల్లడించారు. ఇప్పటివరకు 5 లక్షలకుపైగా శానిటైజర్ బాటిళ్లను ఉత్పత్తి చేసి పంపిణీ చేశామన్నారు. ప్రస్తుతానికి రోజూ 30వేల మాస్కులు ఉత్పత్తి చేస్తున్నామని, త్వరలో ఆ సామర్థ్యాన్ని 60వేలకు పెంచాలని లక్ష్యంగా పెట్టుకున్నట్లు పేర్కొన్నారు. వైద్యులు, ఆరోగ్య సిబ్బందిని కరోనా ఇన్ఫెక్షన్ నుంచి కాపాడగల పూర్తిస్థాయి పేస్ షీల్డ్‌తో పాటు మూడురకాల వీవీఈలను అభివృద్ధిచేసినట్లు చెప్పారు. ప్రజల వ్యక్తిగత సమాచార గోప్యతకు అత్యంత ప్రాధాన్యమిచ్చే నరికొత్త వీడియో కాన్ఫరెన్సింగ్ సాఫ్ట్‌వేర్‌ను కూడా రూపొందించామన్నారు. క్వారంటైన్‌లో ఉన్న వారి కదలికలను ట్రాక్ చేయగల సాఫ్ట్‌వేర్ రూపకల్పనకు డీఆర్‌డీవో కనరత్తు చేస్తోందని వివరించారు. ఉత్తరప్రదేశ్ లోని నోయిడాలో ఉన్న ఓ ప్రైవేటు వర్సిటీ శాస్త్రవేత్తలతో నిర్వహించిన వీడియో కాన్ఫరెన్స్‌లో ఆయన ఈ వివరాలను వెల్లడించారు.



<https://epaper.andhraijothy.com/m5/266512/Telangana/09-05-2020#page/8/1>

Developing Vaccine for Covid-19

కొవిడ్-19కు టీకా అభివృద్ధి చేస్తున్నాం

డీఆర్డీవో చైర్మన్ సతీష్ రెడ్డి

నోయిడా: కొవిడ్-19పై పోరు కోసం టీకా, ఔషధం అభివృద్ధిపై కసరత్తు చేస్తున్నట్లు రక్షణ పరిశోధన, అభివృద్ధి సంస్థ (డీఆర్డీవో) చైర్మన్ జి సతీష్ రెడ్డి తెలిపారు. ఈ మహమ్మారిని ఎదుర్కోవడానికి శానిటైజర్లు, ప్రత్యేక మాస్కులు, వ్యక్తిగత రక్షణ సాధనాలను తయారుచేయనున్నట్లు తెలిపారు. సొంత ఫార్ములాలతో గ్వాలియర్, దిల్లీలోని ల్యాబ్లో శానిటైజర్లను ఉత్పత్తి చేస్తున్నామని, ఇప్పటికే నలక్షలకు పైగా సీసాలను పంపిణీ చేసినట్లు చెప్పారు. నోయిడాలోని అమిటీ విశ్వవిద్యాలయం నిర్వహించిన ఒక వెబినార్లో ఆయన ప్రసంగించారు.

హైదరాబాద్ ల్యాబ్లోనూ..

మరోవైపు హైదరాబాద్లోని డీఆర్డీవో ప్రయోగశాల 'రిసెర్చ్ సెంటర్ ఇమారత్' (ఆర్ సీఐ) కూడా కొవిడ్-19పై పోరు కోసం వినూత్న ఉత్పత్తులను అభివృద్ధి చేసింది. 'డెవెన్' పేరుతో తక్కువ ఖర్చుతో పోర్లబుల్ వెంటిలేటర్ను రూపొందించింది. అలాగే అతినీల లోహిత కిరణాలతో వస్తువులను క్రిమిరహితంగా మార్చే యూవీసీ శానిటైజర్లు, నగదును శుభ్రం చేయడానికి 'అటోమేటెడ్ యూవీసీ కరెన్సీ శానిటైజింగ్ డివైస్'ను సిద్ధం చేసింది.

<https://epaper.eenadu.net/Home/Index>



Sat, 09 May 2020

Eight labs approved for testing of PPE Coveralls to protect from COVID-19

The tests are conducted conforming with the technical requirements issued by Ministry of Health & Family Welfare, Government of India on 2nd March 2020

New Delhi: Eight laboratories have now been approved for testing of PPE Coveralls required for protection from COVID-19. These are – (i) South India Textiles Research Association (SITRA), Coimbatore, Tamil Nadu (ii) DRDO-INMAS, New Delhi, (iii) Heavy Vehicle Factory, Avadi, Chennai (iv) Small Arms Factory, Kanpur, Uttar Pradesh (v) Ordnance Factory, Kanpur, Uttar Pradesh (vi) Ordnance Factory, Muradnagar, Uttar Pradesh (vii) Ordnance Factory, Ambarnath, Maharashtra (viii) Metal & Steel Factory, Ishapore, West Bengal. All these laboratories have been accredited by NABL.

The tests are conducted conforming with the technical requirements issued by Ministry of Health & Family Welfare, Government of India on 2nd March 2020. On 6th April 2020 Ministry of Textiles further issued detailed procedure for issue of Unique Certification Code (UCC) for each passed prototype sample from the manufacturers of the PPE Coveralls. These procedures have been further rationalized by the Ministry of Textiles on 22nd April 2020.

The Unique Certification Code (UCC) refers to each prototype sample submitted by the manufacturer and is required to be embossed on each manufactured Coverall along with the name of the manufacturer, date of manufacture and name of the client. This procedure has been fully implemented in respect of procurement by M/s HLL Lifecare Limited, which is the procurement agency for the hospitals and healthcare organisations under the Ministry of Health & Family Welfare, Government of India.

The manufacturers are also required to submit an affidavit along with their submitted sample, stating details of their manufacturing unit, GSTIN number, company registration number, Udyog Aadhar number or DIC registration number and other relevant details. They are also required to declare that they are textile manufacturers and not traders. The affidavit is to form a part of the UCC Certificate.

Details of all UCC Certificates are available on the official websites of DRDO, OFB (Ordnance Factory Board) and SITRA, for verification by the public.

Ministry of Textiles has also advised the procurement agencies to formulate their post-delivery random sampling and testing procedure, to ensure that a consistent quality control mechanism is in place during the supply period. (With Inputs from PIB)

<https://www.devdiscourse.com/article/health/1042533-eight-labs-approved-for-testing-of-ppe-coveralls-to-protect-from-covid-19>



Sat, 09 May 2020

भारतीय नौसेना ने बनाई कम लागत वाली PPE किट, सभी मानकों पर टेस्ट हुआ सफल

भारतीय नौसेना ने बहुत ही कम लागत वाली पीपीई किट बनाई है. डीआरडीओ के इन्मास ने इसकी टेस्टिंग की और इसे प्रमाणित किया है. अब भारतीय नौसेना इसका बड़ी संख्या में निर्माण कर सकती है.

नई दिल्ली: भारतीय नौसेना द्वारा तैयार और डिजाइन की गई पर्सनल प्रोटेक्टिव इक्विपमेंट (पीपीई) किट को बड़े स्तर तैयार करने का सर्टिफिकेट मिल गया है. इसे कोविड-19 से सुरक्षा की स्थिति में इस्तेमाल किया जा सकता है. इस पीपीई को डीआरडीओ के दिल्ली स्थित नाभिकीय औषधि और संबद्ध विज्ञान संस्थानय(इन्मास) ने टेस्ट किया और प्रमाणित किया. पीपीई को परीक्षण के मानदंडों को पूरा करना जरूरी होता है. ये मानदंड भारतीय चिकित्सा अनुसंधान परिषद (आईसीएमआर) और स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार द्वारा निर्धारित किए जाते हैं.

इस पीपीई की लागत व्यावसायिक रूप से इस्तेमाल होने वाली पीपीई किट से बहुत ही कम है. इस पीपीई किटो को इनोवेशन सेल, इंस्टीट्यूट ऑफ नेवल मेडिसिन, मुंबई और नेवल डॉकयार्ड मुंबई द्वारा गठित एक टीम ने डिजाइन और निर्माण करने के लिए सहयोग किया। यह आईएसओ 16603 मानक के अनुसार न्यूनतम 3/6 और उससे अधिक का स्तर रखती है.

पीपीई में सांस लेने की क्षमता

संस्थान द्वारा जारी विज्ञप्ति के मुताबिक, इस पीपीई की विशेषताएं इसकी सरल, नई और कम लागत वाला डिजाइन हैं. पीपीई को बनाने में फैब्रिक के इनोवेटिव विकल्प का उपयोग किया गया है. जोकि पीपीई में 'सांस लेने की क्षमता' और प्रतिरोधक क्षमता प्रदान करता है, जो उपयोगकर्ता के लिए आरामदायक और सुरक्षित है.

चिकित्सा पेशेवरों के लिए एक जैव सूट (Bio Suit)

इस बीच, डीआरडीओ ने कोरोनावायरस बीमारी से लड़ने में मदद करने के लिए चिकित्सा पेशेवरों के लिए एक जैव सूट बनाया है. दिलचस्प बात यह है कि डीआरडीओ द्वारा बनाए गए जैव-सूट में एक अनूठी विशेषता है. डीआरडीओ का कहना है कि इसे पनडुब्बी अनुप्रयोगों में प्रयुक्त सीलेंट के आधार पर सीलिंग टेप के विकल्प के रूप में एक विशेष सीलेंट (पानी को रोकने वाला) से बनाया गया है.

<https://www.abplive.com/news/india/indian-navy-create-low-cost-ppe-drdo-inmas-test-and-certified-this-1391815>



Sat, 09 May 2020

India wants mini/nano and combat drones developed locally for anti-terror operations in Kashmir

By Raunak Kunde

Defense Research and Development Organisation (DRDO) and other State-owned public sector companies have been asked to Ministry of Defence (MoD) to prepare a list of projects that can be shared with the private sector companies and the MSMEs in development of Mini/Nano and combat drones to give a massive push to the Make in India initiative as India looks to develop and work with Private sector companies to develop locally series of Mini/Nano and combat drones to be used for Anti-terror operations especially in the Kashmir Valley.

MoD is also looking to procure drones which can be used for surveillance in anti-terror operations in identifying where terrorists might be hiding before troops enter any building or house. Most of the casualties happen when troops enter houses that are suspected of hosting terrorists and are hiding when search operations are been carried out. we require special sensors and airborne thermal devices that can detect movement inside the house so that our forces don't enter blind and not have to face a volley



of bullets fired by the terrorists said informed sources close to idrw.org.

The army is also looking at drones which can be used to neutralize terrorists when they are hiding in hard to get a place without risking casualties on the troops. Drones that can carry Hand grenade, explosives, or assault rifles have been inducted by many Army's around the world but no such drones have been actively used by India in Anti-Terror operations in Kashmir yet.

MOD is fully aware that the non-availability of critical drone systems has adversely affected the aerial surveillance capability of the Indian Army in Anti-terror operations, especially in the Kashmir Valley. Many of the casualties of the troops could been avoided if autonomous drones were used to neutralize terrorists in the valley and many local Private sector companies have been identified which have shown a lot of promising projects and worthy of leading or taking over from the Public sector companies most of the UAV and Drone projects.

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<https://idrw.org/india-wants-mini-nano-and-combat-drones-developed-locally-for-anti-terror-operations-in-kashmir/#more-227027>