



Embassy of India, Berne

INDIA SCIENCE AND INNOVATION WEEKLY

06 December 2021

*Ask the right questions, and nature will open the door to her secrets
- Dr. C.V. Raman, The Nobel Prize in Physics 1930*

Indian researchers indigenously developed smart technology system to protect power grids from short-circuits

To protect power grids from short-circuits, Indian researchers at the Indian Institute of Technology Kanpur (IIT Kanpur) indigenously developed a unique innovation of a prototype of a Smart Superconducting Fault Current Limiter (SCFLsm), which either automatically diverts the current into a parallel shunt (external resistance to bypass maximum current) or limits current surge by developing high resistance in the current path. IIT Kanpur also informed that the technology developed with support from the Advanced Manufacturing Technologies Program of the Department of Science & Technology (DST), Govt of India is in the 4 stage of Technology Readiness level, and a national patent has also been filed for the same.

Six Greenfield Airports became operational in last 3 years

Ministry of Civil Aviation reported that in last 3 years 6 Greenfield Airports i.e. Kannur Airport (2018), Pakyong Airport (2018), Kalaburagi Airport (2019), Kurnool Airport (2021), Sindhudurg Airport (2021) and Kushinagar Airport (2021) became operational & Ministry also informed that 5 Greenfields Airports are under construction & responsibility of implementation & sustainable development of airport projects including funding for the same rests with the concerned airport developer.

CSIR-IIP indigenous technology to produce bio-jet fuel received Military Certification

Council Of Scientific And Industrial Research-Indian Institute Of Petroleum (CSIR-IIP), Dehradun's indigenously developed technology to produce bio-jet fuel received Military Certification from Centre for Military Airworthiness and Certification (CEMILAC). With this approval technology could be used on military aircraft of the Indian Air Force (IAF). CSIR-IIP Dehradun further commented that the certification represents India's growing confidence in aviation biofuel sector and another step towards 'Atmanirbhar Bharat' and this would also enable early commercialization of the technology and mass production.

Indian medical technology Start-up won two National Level Awards

Kerala-based Indian medical technology start-up 'Sascan Meditech', won two National Level awards i.e. Startup India Grand Challenge 2021 and Anjani Mashelkar Inclusive Innovation Award 2021. *Sascan Meditech*, which was incubated at the SCTIMST-TIMed the Technology Business Incubator of Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, an autonomous institute of the Department of Science and Technology (DST) won the first award for developing *OralScan*, a handheld device for early, accurate, and cost-effective detection of pre-cancerous lesions in the mouth and the second award for the development of *CerviScan*, a hand-held non-invasive device for cervical cancer screening and early detection of cervical cancer.

Special Update: MeitY & NASSCOM jointly inaugurated the 'Centre of Excellence on IoT and AI' at Andhra University Campus

In a joint partnership with the Ministry of Electronics and Information Technology (MeitY) and Government of Andhra Pradesh, National Association of Software and Services Companies (NASSCOM) inaugurated the 'Centre of Excellence on IoT and AI' at Andhra University Campus Visakhapatnam. The Centre of Excellence (COE) on IoT and AI aimed at promoting innovation in emerging technologies of IoT, AI, robotics and to create and validate solutions from design to prototype to democratise innovation. The COE also promotes entrepreneurship by providing an incubation facility for peer-to-peer learning and the benefit of an industrial environment & currently working with enterprises interested in collaborating with start-ups for newer innovative solutions.