

NITRA NEWS

...with industry always

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Insight

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Editorial Structure

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FROM DIRECTOR GENERAL'S DESK



Dear Patrons,

To begin with at this last quarter edition of NITRA News Bulletin 2020, I want to wish you a happy new year 2021 which is already underway. At the same time I also hope that all of you had spent the year gone by pretty purposefully and achieved your goals.

Friends, as usual this quarter has also been buzzed with activities both for NITRA and its academic wing NITRA Technical Campus. The prime events for this quarter comprise of the Research Advisory Committee (RAC) meet under the chairmanship of Sh. Vidit Jain, Vice Chairman, NITRA Council of Administration and Jt. MD, Pasupati Spg. & Wvg. Mills Ltd. NITRA, since its inception, has always believed in working in order to support the industry. As a result of this, RAC meet is held at regular intervals so as to determine NITRA's direction for conducting R&D that would directly benefit the industry. To combat the situation arising out of Covid 19 this time the members of RAC virtually met during this quarter, assessed, discussed and reviewed the existing R&D projects, and set a guideline for its future projects.

In another notable event during this period, Prof. Vineet Kansal, Pro Vice Chancellor, AKTU visited NITRA and its academic wing NITRA Technical Campus. During this visit, he was taken to a round to see the facilities available at NITRA and was explained about how the students are directly benefited by enjoying hands-on experience of latest machines and technologies. The academic wing, on the other hand, also had a glorious time in this quarter. In continuation with the legacy of last three years, two students of the institute have clinched gold and silver medal in Carpet & Textile Group for the year 2016-20 whilst all the students appeared from the institute have cleared the exams with flying colors. This achievement shows NITRA's continuous supremacy in the field of engineering education.

To conclude, I once more solicit your invaluable suggestions in order to make the future issues more informative and user-friendly. So, please feel free to mail your opinion so that we can improve the publication. Enjoy reading **NITRA News Bulletin**.

Regards,

Dr. Arindam Basu
Director General

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R&D SPECTRUM

Presently NITRA is working on five Government and Industry sponsored projects.

Government Sponsored Projects - On-going:

- New Approaches to Reduce Water Consumption in Textile Wet Processing
- Development of Value Added Products from different fibres produced in Himalayan Region
- Development of Air Cleaner Home Textiles to Reduce Indoor Air Pollution
- Setting up of Common Effluent Treatment Plant (CETP) 150 KLD at Ajrakhpur, Bhuj
- Development of regenerated cellulosic fibres from Indian bamboo

Industry Sponsored Projects - On-going:

- Development of coat combat disruptive

Proposed Projects - Submitted to Government Agencies for Financial Support

- To develop protective work wear for sewage and sanitary workers
- Development of low cost and handy indigenous device for textile fiber and small irregular shape density measurement
- Socio-economic development of SC/ST by providing training, technology and market to convert local resources to industrial products
- Development of Manhole Cover & Drainage Cover Slab using agriculture waste
- Development of indigenous bacterial filtration efficiency tester for surgical face mask
- Development of NCI (Natural compression imprint) Machine for textile substrate

Proposed Projects – Submitted to Industry

- Development of cooling fabric for summer season traffic police
- Development of low cost sanitary napkins
- Development of thermal layer using aerogel

RESEARCH PAPERS PUBLISHED/PRESENTED

S. No.	Title	Author(s)	Publication/Place	Date
1	Air Cleaner Home Textiles to Reduce Indoor Air Pollution: A Preliminary Study	Dr. Arindam Basu Dr. M. S. Parmar & Dr. Girendra Pal Singh	International Journal of Engineering Research & Technology (IJERT), Vol. 9 Issue 11	November 2020
2	Personal Protective Equipment (PPE) for Medical Professionals & Healthcare Workers for Protection from COVID – 19 Virus Infection	Dr. Arindam Basu	TANTU Magazine	October 2020
3	Congestion Avoidance Algorithms in a Software Defined Network	Mr. Ashish Bajpai and Dr. B.K. Sharma	2 nd Int. Conference on Networks and Cryptology (NetCrypt-2020) organized by JNU, New Delhi.	4-6 December 2020

