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SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TRIVANDRUM
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R&P Cell/SCTIMST/2025

10.02.2025

TIME BOUND
PARLIAMENT QUESTION

Sub: Parliament Question D No. 2476 for 10.02.2025 regarding Promotion of Research Culture – reg.

- (a) *Whether the Government is proposing to promote research culture across the country;*
- (b) *If so, the specific measures being planned to support research innovation in universities, research institutions and among young researchers;*
- (c) *The details of funds estimated for such research culture; and*
- (d) *The details on the expected timeline for the scheme's implementation, the targeted beneficiaries and Key Performance Indicators (KPIs) to measure its success in promoting a sustainable research ecosystem?*

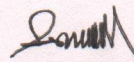
Answer

Point-wise inputs submitted by Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum (SCTIMST)

(a) and (b) - Sree Chitra Tirunal Institute for Medical Sciences & Technology undertakes Research & Development on medical devices and biomaterials. The major product development is done through funded mission mode program called Technical Research Centre from the parent institution, Department of Science & Technology. Also many other projects are undertaken by the research community of the Institute through various other funding agencies like ICMR, DBT, etc. The Institute also take up collaborative mode of product development funded by the medical device industry. The novelty in the research innovations are protected through Intellectual Property Rights. The products borne out of the innovation are translated to society through the process of Technology Transfer handholding with industry partners. Many products were transferred to the industry like the Intrauterine Device (Emily), Dental and orthopaedic bone cements, scaffolds from mammalian cholecyst/ jejunum/ urinary-bladder, vein viewer, Rapid diagnostic kit with antibiogram for urinary tract infections, Testing device for TB diagnosis, Left Ventricular Assist Device, Flow diverter stent, Atrial Septal Defect closure device, pneumatic compression device, blood flowmeter, infant warmer, Liquid embolic agent, Bioactive HA TCP ceramic beads for drug delivery, Automatic contrast injector, bioink for 3D bioprinting, automatic e trolley etc to name a few. Commercialization of many products like mechanical heart valve, blood bag, bubble and membrane oxygenator, cardiotomy reservoir, hydrocephalus shunt, concentric needle electrode, vein viewer, Beta Tricalcium Phosphate, 60% synthetic Hydroxyapatite and 40% Beta Tricalcium Phosphate, gelatin modified 3D biink, etc. was done. To promote a culture of innovation in the younger minds many young researchers join the Institute as part of PhD and fellowship programs.

(c) & (d) - The details of funds estimated for such research culture and time lines for implementation may be answered by the parent department.




DIRECTOR