

**GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
LOK SABHA  
UNSTARRED QUESTION No. 1317  
TO BE ANSWERED ON 14.12.2022**

**CO-OPERATION IN SCIENCE AND TECHNOLOGY**

**1317. SHRI RAJENDRA DHEDYA GAVIT:**

Will the Minister of **SCIENCE AND TECHNOLOGY** विज्ञान और प्रौद्योगिकी मंत्री be pleased to state

- (a) whether India and Canada are likely to sign MoU in the field of science and technology for extending mutual co-operation in various fields of specialization;
- (b) if so, the major areas in which such co-operation is likely to be extended;
- (c) whether any review of the ongoing programmes between the two countries in science and technology sectors has been undertaken; and
- (d) if so, the details thereof along with the outcome of the review and the areas wherein the progress could not be found satisfactory?

**ANSWER**

**MINISTER OF STATE (INDEPENDENT CHARGE) OF THE  
MINISTRY OF SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(DR. JITENDRA SINGH)**

विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार)  
(डॉ. जितेंद्र सिंह)

- (a) **Government of India and Government of Canada signed an inter-governmental agreement for cooperation in Science & Technology at Toronto, Canada on 18 November 2005.**

**Department of Science & Technology (DST), Department of Biotechnology (DBT) and Innovative Multidisciplinary Partnerships to Accelerate Transformation and Sustainability (IC IMPACTS) & National Research Council (NRC) are the nodal implementing agencies from the Indian and Canadian sides, respectively.**

**In pursuance of the above-mentioned agreement, DST has concluded the**

**MOUs with few Canadian agencies namely, a) Natural Sciences and Engineering Research Council (NSERC) and b) National Research Council (NRC) for academic R&D and Industrial Research & Development, respectively. Both these MoUs were renewed in May 2022 for next 03 years. Along with DST, DBT has also signed the MOU with NSERC in May 2022.**

**National Centre for Polar and Ocean Research (NCPOR), an autonomous Institute of Ministry of Earth Sciences, has a Memorandum of Cooperation (MoC) signed in 2020 with the Canadian High Arctic Research Station (CHARS) of Polar Knowledge (POLAR) Canada for cooperation in the area of polar research.**

**(b) The areas of S&T cooperation vary in each call depending upon the national priorities and scientific interests. The areas agreed under these MoUs for next three years are (i) Safe and Sustainable Infrastructure; (ii) Integrated Water Management; (iii) Health, Energy and Agritech; and other areas they may jointly decide upon by the DST and DBT in consultation with NSERC and NRC.**

**National Centre for Polar and Ocean Research (NCPOR), an autonomous Institute of Ministry of Earth Sciences collaborates with CHARS in the area of polar research.**

**(c) Reviews are being done from time to time through India Canada Joint Science & Technology Committee meetings. The last review was held during India Canada Joint S&T Committee Meeting held on 19th May 2022.**

**(d) As outcomes of cooperation, both sides focus on the development and implementation of community-based solutions in integrated water management, safe and sustainable infrastructure, public health, and food security. Since 2016, DST/DBT and IC-IMPACTS have provided financial support to joint India-Canada projects. Under these projects, a various research publications and patents were emerged out. A significant number of manpower was trained and several workshops were attended.**

**Also, through this cooperation, both sides are encouraging translational research and development in areas of Affordable Healthcare, Clean Technologies, Water Technologies, Information & Communication Technology and Electronic System Design & Manufacturing.**

**\*\*\*\*\***