

FACTSHEET

New and Rare Chemical Reference Materials to Strengthen Anti-Doping Testing

Major Step towards Atmanirbhar Bharat

(Ministry of Youth Affairs & Sports)

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Context

Reference Materials (RMs), which is the purest form of chemical required for anti-doping analysis in all WADA-accredited laboratories, are not readily available across the world but are needed by every [World Anti-Doping Agency](#) (WADA) accredited laboratory. India itself has been importing RMs from Canada and Australia, however, with **indigenously developed six new and rare Reference Materials (RMs)**, India has indeed taken a **step towards Atmanirbhar Bharat**, which is the vision of Prime Minister Narendra Modi [in the field of anti-doping science](#). It is likely that India will be [exporting these RMs to other countries as well](#).

At the launch of six RMs on April 3, 2022, the Union Minister of Youth Affairs and Sports, Anurag Singh Thakur informed that the availability of this rare RMs would help the entire anti-doping community to strengthen their testing capabilities and usher in an era of mutual co-operation among countries for promoting fair play in sports policy world over.

Introduction

The [National Dope Testing Laboratory](#) (NDTL) has indigenously developed six new and rare RMs, **These RMs have been developed in less than a year** by NDTL in association with the [National Institute of Pharmaceutical Education and Research \(NIPER\)](#)-Guwahati and the **Council of Scientific & Industrial Research-Indian Institute of Integrative Medicine (CSIR-IIIM)**, Jammu.

It has also been decided to distribute Five mg of this indigenously developed RM [to all the WADA-accredited dope](#)



[testing laboratories around the world free of cost](#) for the first occasion.

Achievements and [events in chronological order:](#)

- The research for these RMs started on [August 1, 2020](#), when NDTL signed a Memorandum of Understanding (MoU) with both the national scientific organizations in order to [indigenously synthesize and develop 20 such RMs of prohibited substances](#), in a phased manner, over a period of 2-3 years. These R&D activities between NDTL & NIPER-G and CSIR-IIIM, Jammu have been undertaken with the active support and funding of the Government of India.
- Out of these six RMs launched, three each were synthesized [in collaboration with NIPER-Guwahati](#) and [CSIR-IIIM, Jammu](#).
- NDTL has taken several initiatives towards further strengthening its research activities in collaboration with premier scientific institutes in India and [also initiated the collaborations with other WADA-accredited laboratories in Cologne, Tokyo and Rome and have exchanged thought and ideas](#) for the furtherance of the anti-doping efforts.

NDTL has conducted testing of various major International Events:

- First Commonwealth Youth Games, 2008 (Pune)
- Singapore Youth Olympic Games, 2010 (Singapore)
- XIX Commonwealth Games, 2010 (Delhi)
- Asian Beach Games, 2010
- XII National Games, 2010 (Malaysia)
- South-East Asian (SEA) Games, 2015 (Singapore)
- Indonesia National and Paralympics Games, 2016
- South-East Asian Games (SEA), 2017 (Malaysia)
- Asian Para Games, 2017 (Malaysia)
- FIFA (U-17) World Cup, 2017 (India)
- Khelo India School Games, 2017 (India).

To see the available equipment at NDPL, [click here](#).

The launch of these Reference Materials will ensure improved anti-doping testing which is in line with the Sports & Youth Affairs Ministry's commitment towards promotion and effective implementation of anti-doping programmes in the country with the sole objective of fair play in sports.

References

- <https://pib.gov.in/PressReleasePage.aspx?PRID=1812937>
- <https://newsonair.com/2022/04/04/national-dope-testing-laboratory-indigenously-develops-6-new-and-rare-reference-materials-for-anti-doping-analysis/>
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Twitter

- <https://twitter.com/PIBBhopal/status/1510617049810505728?s=20&t=dlemb0ndMMCYTbQH-4ctHw>
- <https://twitter.com/PibLucknow/status/1510538477284499463?s=20&t=dlemb0ndMMCYTbQH-4ctHw>

Further Reading

- <https://www.timesofindia24.com/2022/04/shri-anurag-singh-thakur-launches-new.html>
- <https://www.thestatesman.com/india/six-new-reference-materials-anti-doping-analysis-developed-1503057122.html>

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