

National Technical Textiles Mission (NTTM)

The Cabinet Committee on Economic Affairs (CCEA) has approved the setting up of the National Technical Textiles Mission with an aim to make India a leader of technical textiles globally.

About the National Technical Textiles Mission

Some important facts about the National Technical Textiles Mission have been discussed below:

- Cabinet Committee on Economic Affairs (CCEA), chaired by Prime Minister Narendra Modi has approved the setting up of this mission
- The Mission would have a four year implementation period from FY 2020-21 to 2023-24
- A total outlay of Rs 1480 Crore has been finalised by the authorities for this mission
- A Mission Directorate will be operational in the Ministry of Textiles
- Mr Nihar Ranjan Dash has been appointed the Mission Coordinator for the National Technical Textiles Mission by the President of India
- The mission has been set up in lines with the [Make in India](#) initiative by the Government of the country

Also, read [UPSC Exam Comprehensive News Analysis - December 5, 2020](#)

Technical Textiles - A Brief Background

To understand the significance of introducing a mission to promote technical textiles, it is important for one to understand what are technical textiles.

Technical Textiles are a futuristic and nice segment of textiles, which are used for various applications ranging from agriculture, roads, railway tracks, sportswear, health on one end to bulletproof jacket, fireproof jackets, high altitude combat gear and space applications on another end of the spectrum.

What are the Technical Textiles?

Technical textiles are textiles materials and products manufactured primarily for technical performance and functional properties rather than aesthetic characteristics. India shares nearly 6% of world market size of 250 Billion USD.

There are 12 broad categories under which the Technical textiles can be divided, depending upon their application areas:

1. Agrotech
2. Buildtech
3. Clothtech
4. Geotech
5. Homotech
6. Indutech

7. Mobiltech
8. Meditech
9. Protech
10. Sportstech
11. Oekotech
12. Packtech

All Government exam aspirants must also read more about the [SAATHI](#) (Sustainable and Accelerated Adoption of efficient Textile technologies to Help small Industries) initiative.

Related Links	
Skill India Mission	Atmanirbhar Bharat Abhiyan
Samarth Scheme	National Skills Framework Qualification (NSFQ)
TUFS (Technology Upgradation Funds Scheme)	Swachh Bharat Mission

Objectives of the National Technical Textiles Mission

Given below are the basic aims and objectives behind setting up an independent mission for the development of technical textiles in India:

- The main aim is to get India the highest position in Technical Textiles at a global level
- This mission also aims at improving the penetration level of the technical textiles in the country. It must also be noted that the penetration level of technical textiles is low in India at 5-10%, against 30-70% in advanced countries.
- The authorities aim at increasing the global market for Indian technical textiles
- To simplify the objectives of the mission, it has been divided into four component as well
- The Mission will focus on the usage of technical textiles in various flagship missions, programmes of the country including strategic sectors

Also, read [Making India a Manufacturing Hub: RSTV- Big Picture](#)

Components of National Technical Textiles Mission (NTTM)

Discussed below are the four components of NTTM.

1. Component - I [Research, Innovation and Development]

- It has an outlay of Rs.1000 crores
- Two aspects will be promoted through this component:
 - i. Fundamental research at fibre level aiming at path-breaking technological products in Carbon Fibre, Aramid Fibre, Nylon Fibre, and Composites

- ii. Application-based research in geo-textiles, agro-textiles, medical textiles, mobile textiles and sports textiles and development of biodegradable technical textiles
 - Fundamental research will be conducted at CSIR laboratories, IIT, and other scientific/industrial/academic laboratories of repute
 - Application-based research will be conducted at CSIR, IIT, RDSO, ICAR, DRDO, NAL, etc.
- 2. Component - II [Promotion and Market Development]**
 - An average growth rate of 15 to 20% per annum will be targetted to take the level of domestic market size to 40-50 Billion USD by the year 2024
 - The medium of market development, market promotion, international technical collaborations, investment promotions, etc. will be utilised for the promotion and development of this mission
- 3. Component - III [Export Promotion]**
 - The current value of the export promotion of technical textiles is approximately Rs.14000 Crore, per annum
 - Through this component, the mission aims at increasing it to Rs.20000 Crore by 2021-22
 - It also aims at ensuring a 10% increase in the average growth of exports per year up to 2023-24
- 4. Component - IV [Education, Training, Skill Development]**
 - To meet the technologically challenging and fast-growing technical textiles segment, technical education at engineering level will be promoted through this mission
 - Highly skilled manpower will be created to meeting the requirement of the mission

With this four-year plan, the Government of India plans to promote and develop the Indian Technical Textiles manifolds, which will automatically affect the economic growth of the country.

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