

National Technical Textiles Mission

March 10, 2020

Source: *PIB*

The Cabinet Committee on Economic Affairs, chaired by the Prime Minister has given its approval to set up a National Technical Textiles Mission with a total outlay of Rs 1480 Crore, with a view to position the country as a global leader in Technical Textiles

Background

- Technical Textiles products are divided into 12 broad categories (Agrotech, Buildtech, Clothtech, Geotech, Hometech, Indutech, Mobiltech, Meditech, Protech, Sportstech, Oekotech, Packtech) depending upon their application areas.
- **India shares nearly 6% of world market size of 250 Billion USD.** However, the annual average growth of the segment is 12%, as compared to 4% world average growth.
- The penetration level of technical textiles is low in India at 5-10%, against 30-70% in advanced countries. **The Mission aims at improving the penetration level of technical textiles in the country**

Duration of the mission

The Mission would have a four year implementation period from FY 2020-21 to 2023-24.

Mission components

1. **Research, Innovation and Development:** This component will **promote both**
 - **Fundamental research at fibre level aiming at path breaking technological products in Carbon Fibre,**

Aramid Fibre, Nylon Fibre, and Composites : The fundamental research activities will be based on **'pooled resource' method** and will be conducted in various Centre for Scientific & Industrial Research (CSIR) laboratories, Indian Institute of Technology (IIT) and other scientific/industrial/academic laboratories of repute.

- **Application-based research in geo-textiles, agro-textiles, medical textiles, mobile textiles and sports textiles and development of biodegradable technical textiles:** Application-based research will be conducted in CSIR, IIT, Research Design & Standards Organisation (RDSO) of Indian Railways, Indian Council of Agricultural Research (ICAR), Defence Research & Development Organisation (DRDO), National Aeronautical Laboratory (NAL), Indian Road Research Institute (IRRI) and other such reputed laboratories.

2. **Promotion and Market Development: Indian Technical Textiles segment is estimated at USD 16 Billion which is approximately 6% of the 250 Billion USD global technical textiles market. The penetration level of technical textiles is low in India varying between 5-10% against the level of 30-70% in developed countries. The Mission will aim at average growth rate of 15-20% per annum taking the level of domestic market size to 40-50 Billion USD by the year 2024; through market development, market promotion, international technical collaborations, investment promotions and 'Make in India' initiatives.**
3. **Export Promotion:** The component aims at export promotion of technical textiles enhancing from the current annual value of approximately Rs.14000 Crore to Rs.20000 Crore by 2021-22 and ensuring 10% average growth in exports per year upto 2023-24. An Export Promotion Council for Technical Textiles will be set up for effective

coordination and promotion activities in the segment.

4. **Education, Training, Skill Development:** Education, skill development and adequacy of human resources in the country is not adequate to meet the technologically challenging and fast growing technical textiles segment. The Mission will promote technical education at higher engineering and technology levels related to technical textiles and its application areas covering engineering, medical, agriculture, aquaculture and dairy segments.

Other key features of the mission:

- The Mission will **focus on usage of technical textiles in various flagship missions, programmes of the country including strategic sectors.** The use of technical textiles in agriculture, aquaculture, dairy, poultry, etc.
- **Promotion of innovation amongst young engineering /technology/ science standards and graduates will be taken up by the Mission; along with** creation of innovation and incubation centres and promotion of 'start-up' and 'Ventures'.
- The research output will be deposited with a **'Trust'** with the Government for the easy and assessable proliferation of the knowledge thus gained through research innovation and development activities.
- **A sub-component of the research will focus on the development of biodegradable technical textiles materials, particularly for agro-textiles, geotextiles and medical textiles.** It will also develop suitable equipment for environmentally sustainable disposal of used technical textiles, with emphasis on safe disposal of medical and hygiene wastes.
- There is another important sub-component in the **research activity aiming at the development of indigenous machineries and process equipment for technical textiles, in order to promote 'Make In India'** and enable

competitiveness of the industry by way of reduced capital costs.

- **A Mission Directorate in the Ministry of Textiles headed by an eminent expert in the related field will be made operational.** The Mission Directorate will not have any permanent employment and there will be no creation of building infrastructure for the Mission purpose.
- **The Mission will move into the sunset phase after a four years period.**