



KAMARAJ IAS ACADEMY
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National Technical Textiles Mission (NTTM)

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Context: The National Technical Textiles Mission (NTTM) introduced by the Ministry of Textiles in 2020 with ₹1,480 crore in total funding, ending in March 2026 will likely be extended by two years.

Textiles manufactured **primarily for functional/technical performance** rather than aesthetics. Used across sectors like **infrastructure, defence, healthcare, agriculture, automobiles, sports, and environmental protection**.

About the Mission

- **Launched:** 2020
- **Duration:** 2020–21 to 2023–24 (extended subsequently)
- **Nodal Ministry:** Ministry of Textiles
- **Outlay:** ₹1,480 crore
- **Vision:** Make India a **global leader** in technical textiles by boosting **research, manufacturing, exports and skill development**.

Objectives

- Promote **indigenous manufacturing** and reduce import dependence.
- Strengthen **R&D and innovation ecosystem**.
- Expand **domestic consumption** and **export competitiveness**.
- Create **skilled manpower** and promote industry–academia linkages.

Key Components / Pillars

1. Research, Innovation and Development

- Funding for **fibre-level and application-level research**.
- Focus on **high-performance and smart textiles**.
- Collaboration with **IITs, CSIR labs, DRDO and academic institutions**.

2. Promotion and Market Development

- Support for **pilot projects and demonstration centres**.
- Encourages adoption of technical textiles in:
 - **Roads (geotextiles)**
 - **Healthcare (medical textiles)**
 - **Agriculture (agro-textiles)**
- Mandatory usage promoted in certain infrastructure projects.

3. Export Promotion

- Aims to increase India's share in the **global technical textiles market**.
- Branding, standards compliance and market access initiatives.

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- Integration with **PLI Scheme for Textiles** (MMF & Technical Textiles).

4. Education, Training and Skill Development

- Introduction of **technical textile courses** in universities and institutes.
- Upskilling of workforce and entrepreneurs.
- Development of **testing, certification and standardisation infrastructure**.

Major Application Segments

Geotextiles – roads, railways, embankments

- **Meditech** – PPE kits, surgical gowns, implants
- **Agrotech** – crop covers, shade nets
- **Mobiltech** – airbags, seat belts
- **Defencetech** – bulletproof jackets, camouflage gear
- **Protech** – fire-retardant clothing

Significance

- Supports **Atmanirbhar Bharat** and **Make in India**.
- Enhances **infrastructure durability and disaster resilience**.
- Boosts **high-value manufacturing and exports**.
- Generates **skilled employment** in sunrise sectors.