

LOK SABHA  
UNSTARRED QUESTION NO. 2083  
TO BE ANSWERED ON 02.08.2023

RESEARCH PROJECTS UNDER THE NTTM

2083. SHRI SUNIL KUMAR SONI:  
SHRI SUMEDHANAND SARASWATI:  
SHRI SUNIL KUMAR SINGH:  
DR. MANOJ RAJORIA:  
SHRIMATI RANJEETA KOLI:  
SHRI NARANBHAI KACHHADIYA:  
SHRI ARUN SAO:  
SHRI SUDHAKAR TUKARAM SHRANGARE:  
SHRI RANJEETSINGH NAIK NIMBALKAR:  
SHRI DEVJI M. PATEL:  
SHRI VIJAY BAGHEL:  
SHRI MOHAN MANDAVI:  
SHRI DILIP SAIKIA:

Will the Minister of TEXTILES वस्त्र मंत्री  
be pleased to state :

- (a) the total number along with the details of research projects approved so far under the National Technical Textiles Mission (NTTM) in the country including the State of Chhattisgarh;
- (b) whether the Government has identified some areas where high strength light weight technical textiles can be used as alternative materials in automobile, aviation, medical sectors etc.;
- (c) if so, the details thereof; and
- (d) the steps taken by the Government to make various technical textile items mandatory under NTTM?

उत्तर  
ANSWER

वस्त्र राज्य मंत्री (श्रीमती दर्शना जरदोश)  
THE MINISTER OF STATE FOR TEXTILES  
(SMT. DARSHANA JARDOSH)

**(a):** With a view to position the country as a global leader in Technical Textiles, National Technical Textiles Mission (NTTM) has been approved at a total outlay of Rs. 1,480 Crore; with a four year implementation period from FY 2020-21 to 2023-24. The Mission has 4 components.

Under Component I of NTTM i.e. Research, Innovation & Development, Rs. 1,000 crore have been earmarked for funding the research projects awarded to the Government Organisations/Premier Research Institutes/Textiles Research Associations (TRAs) of the country. The research projects are not awarded State-wise under NTTM. Till date, 109 research projects of worth Rs.325 crore (approx) have been approved under Component-I of NTTM. Details of these 109 projects are at Annexure-I. So far, no research project has been approved under NTTM to any institute situated in the State of Chhattisgarh as no applications have been received from the institutes situated in the State of Chhattisgarh.

**(b) & (c):** Yes sir. Technical Textiles with high strength light weight properties have applications in various fields including automobile, aviation, medical sectors etc,. In this regard, Government has identified various research topics for inviting research proposals from Government Organisations/Premier Research Institutes/Textiles Research Associations (TRAs) under NTTM. List of the various research topics identified is at Annexure-II.

**(d):** Inter-ministerial exercises have been conducted with the User/ line Ministries, viz. Ministry of Railways, Ministry of Defence, Ministry of Agriculture, and Ministry of Jal Shakti, to examine the areas for mandating use of Technical Textiles. Detailed concept papers to enhance the usage of Technical Textiles (segment-wise) were also shared with the User/ line Ministries, and subsequent meetings have been conducted with the Ministry of Railways and Ministry of Defence to discuss ways to enhance the usage of Technical Textiles.

As on date, after extensive consultation with user Ministries, 92 Technical Textiles items have been identified for the purpose of exploring mandatory use.

**Annexure-I**

Annexure to Lok Sabha Unstarred Question No.: 2083 (H) regarding Research Projects under the NTTM for answer on 02.08.2023.

Details of Research Projects approved under NTTM to the Institutes situated in different states (State-wise): -

<b>Sr. No.</b>	<b>Name of the State</b>	<b>No. of Research Projects approved under NTTM to the Institutes situated in the State</b>	<b>Total Cost of approved Projects (approx.) (In Rupees Crores)</b>
1.	Assam	02	1.18
2.	Delhi	18	109
3.	Himachal Pradesh	01	3.15
4.	Jammu	02	1.08
5.	Karnataka	01	0.50
6.	Madhya Pradesh	06	5.2
7.	Maharashtra	19	99.54
8.	Odisha	01	0.72
9.	Puducherry	02	1
10.	Punjab	06	22.64
11.	Rajasthan	03	5.53
12.	Tamil Nadu	08	12.78
13.	Telangana	09	9.24
14.	Uttar Pradesh	15	37.681
15.	Uttarakhand	03	2.21
16.	West Bengal	13	13.41
	<b>Total</b>	<b>109</b>	<b>~ 325</b>

**Annexure-II**

Annexure to Lok Sabha Unstarred Question No.: 2083 (H) regarding Research Projects under the NTTM for answer on 02.08.2023.

List of the research topics identified by the Government: -

Sr. No.	Identified research topics
1	Specialty Fiber& Composites <ul style="list-style-type: none"><li>▪ High molecular weight/ High strength polyethylene fibers</li><li>▪ Acrylic fibers</li><li>▪ Glass Fibers</li><li>▪ Surface modifications of Carbon Fiber</li><li>▪ Scaling up of electro-spinning process for nano-fibers</li><li>▪ Development and manufacture of specific hybrid fibers, including Carbon-Glass fibers</li><li>▪ Development and manufacture of Aramid Fiber</li></ul>
2	Geotechnical Textiles
3	Agro Technical Textiles
4	Development of High performance fibers
5	Sport Textiles – Phase Changing Materials
6	Medical Textiles
7	Mobiltech
8	Biodegradable technical textiles
9	Protech
10	High performance composites fabrics for cement reinforcement
11	Plasma technology in technical textiles
12	Substitutes of plastics and metals with suitable Technical Textiles materials, particularly in those areas where it is possible to reduce imports and develop eco-friendly Technical Textiles products.