

No.1/3/2022-NTTM
Government of India
Ministry of Textiles

Udyog Bhawan, New Delhi
Dated 18th November, 2022

OFFICE MEMORANDUM

Subject :- Draft General Guidelines for Enabling of Academic Institutes in Technical Textiles – reg.

The undersigned is directed to say that National Technical Textiles Mission under Ministry of Textiles is in the process of finalization of General Guidelines for Enabling of Academic Institutes in Technical Textiles to invite proposals from both Public and Private institutes of New Technical Textiles Degree Programme (UG & PG).

2. It is requested that the views / comments / suggestions on the draft General Guidelines may be provided to the Ministry (at tammt@nic.in; gk.rajnish@nic.in) by **04.12.2022 positively**.

3. This issues with the approval of Competent Authority.



(G.K. Rajnish)

Under Secretary to the Govt. of India

Tel. 23061837

e-mail : gk.rajnish@nic.in

To:

1. Secretary, Higher Education, Deptt. Of Higher Education
2. Secretary, Ministry of Skill Development and Entrepreneurship
3. Secretary, Ministry of Science & Technology

Copy to : NIC for uploading it on the website of the Ministry.



वस्त्र मंत्रालय
MINISTRY OF
TEXTILES

General Guidelines for Enabling of Academic Institutes in Technical Textiles

For Private & Public Institutes

National Technical Textiles Mission
Ministry of Textiles



सत्यमेव जयते

Ministry of Textiles

General Guidelines
for Enabling of Academic Institutes in
Technical Textiles' Education in India
For Private & Public Institutes

Government of India
Ministry of Textiles
National Technical Textiles Mission



DRAFT

Table of Contents

1.	Introduction.....	04
2.	Departments/Specializations covered.....	05
3.	Areas covered under funding.....	06
4.	Guidelines.....	06
5.	Assistance provision against different sub- components.....	07
6.	Eligibility and Evaluation for Applicants.....	12
7.	Application procedure.....	13
8.	Financial Assistance.....	14
9.	Procedure for release of grant.....	14
10.	Payment guidelines (For Private Institutes only) ...	15



Ministry of Textiles

DRAFT

General Guidelines for Enabling of Academic Institutes in Technical Textiles' Education in India: For Private & Public Institutes

1.0 Introduction

With a view to position India as the Global Leader in Technical Textiles, Ministry of Textiles launched the National Technical Textiles Mission (NTTM) through the Official Gazette vide number S.O. 1148 (E) dated 17th March 2020. The Mission aims to drive four key components under Technical Textiles – Research, Innovation and Development; Promotion and Market Development; Education, Skilling and Training; and Export Promotion.

One of the major factors affecting the growth of technical textiles in the country is the lack of quality manpower, specially educated and trained engineers and professionals, and highly skilled workmen both for manufacturing and application areas of technical textiles. Therefore, in order to become a world leader and pioneer in the field of technical textiles in the next decade, India has to lay focused emphasis on creating an effective knowledge and world-class skill ecosystem. Under Education, Skilling and Training component, the goal is to enhance the level of education of prospective Indian Engineers in Technical Textiles to ensure adequate volume of talent is developed in the segment.

In view of the above, NTTM envisages to contribute to improving the learning levels of public and private institutes through various appropriate interventions in terms of Degree Programme Development in the form of New Technical Textiles Degree Programme (UG & PG), updating existing conventional degree programmes with new papers of Technical Textiles; Laboratory infrastructure involving upgrading of existing infrastructure, setting-up of New Laboratory Equipment facilities and training for using these equipment, and Training of faculty members involving a range of faculty development and training programs for professors across different segments of Technical Textiles including MoUs with foreign universities for faculty development in the field of technical textiles.



Ministry of Textiles

DRAFT

2.0 Departments/Specializations covered

The following table highlights the different combination of Qualifying Departments/Specialisations, Type of Institutions and Segments of Technical Textiles intended for papers in Technical Textiles:

S. No.	Segment of Technical Textiles	Qualifying Department/ Specialisation (Undergraduate & Postgraduate Degree Programmes)	Type of Institution eligible
1.	All segments (including Agrotextiles, Geotextiles, Industrial Textiles, Medical Textiles, Protective Textiles, Automotive Textiles, Sportech, Buildtech, Hometech, Clothtech, Sustainable Technical Textiles, Specialty Fibres & Composites, and Smart Textiles)	Textiles Technology/ Textiles Engineering/ Textiles Science /Textiles Chemistry/ Fibre Science & Technology	Engineering/ Technology/ Science/ Education Institutes
2.	Geo-Textiles	Civil Engineering/ Water Resources Engineering/ Oceanography	Engineering/ Technology/ Science Institutes
3.	Agro-Textiles (including aquaculture, horticulture, etc)	Agriculture/ Agricultural Engineering/ Technology	Agriculture Engineering/ Technology/ Science Institutes
4.	Medical Textiles	Medicine/ Bio-Medical Engineering/ Biotechnology	Medical Institute Engineering/ Technology/ Science Institutes
5.	Building Textiles /Construction Textiles	Design/ Civil Engineering, Construction Engineering, Structural Engineering	Design/ Architecture/ Engineering/ Technology/ Science Institutes
6.	Smart Textiles, Protective Textiles, Sports Textiles, Home Textiles, Cloth Textiles	Fashion Technology/ Fashion Design	Fashion Technology/ Engineering/



Ministry of Textiles

DRAFT

			Technology/ Science Institutes
7.	Mobile Textiles/ Industrial Textiles/	Mechanical Engineering, Industrial Engineering, Production Engineering, Automobile Engineering, Aeronautical Engineering & other similar fields	Engineering/ Technology Institute

**** Engineering and Technology are hereby synonymous terms for the purpose of these guidelines under consideration. Separate applications may be furnished for each Department/Specialization and should not be combined in one single Application.***

3.0 Areas covered under funding

The following areas are covered, with respect to the undergraduate (UG) and Postgraduate (PG) degree programmes, for funding under the relevant Component of the mission:

3.1 Laboratory Equipment and Training of Lab Personnel: Upgradation/Enhancement of laboratory facility, limited to procurement and installment of testing and demonstration/prototyping equipment dedicated only for academic activities in Technical Textiles and application areas thereof (Expenditure on Land and Building and recurring/operational expenditure are excluded). The cost of training of personnel operating the equipment should be inclusive of the cost of procurement of lab equipment and no separate cost for training of personnel will be reimbursed.

3.2 Specialized Training: Specialized training of Faculty members of the relevant department/specialization in the University/Institute. The cost of specialized training, faculty development programmes or quality improvement programmes (QIP) for the faculty members should be limited to maximum amount.

4.0 Guidelines

4.1 The general guidelines applicable to Para 3.0, in addition to what is stated against the relevant sub-paragraphs are:

4.2 The maximum amount that can be funded for upgradation/enhancement of laboratory facility and training of personnel for operation of the laboratory equipment procured for higher education in Technical Textiles, as applicable to the relevant departments/specializations are as shown in detail at Para 5.0 of this document.

4.3 The cost of specialized training, faculty development programmes or quality improvement programmes (QIP) for the faculty members should be limited to maximum amount as shown against relevant column Para 5.0.



Ministry of Textiles

DRAFT

5.0 Assistance provision against different sub-components

S. No.	Eligible Department/ Specialization **	Sub-component	Maximum Provision of funding per institute	
			Only Undergraduate	Undergraduate & Postgraduate***
A. Papers* on Various Segments of Technical Textiles				
1	Textiles Technology/ Textiles Engineering/ Textiles Science /Textiles Chemistry/ Fibre Science & Technology	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 3 papers including 2 compulsory paper in any areas of Technical Textiles	Currently teaching/proposed to be teaching atleast 4 papers including minimum 2 compulsory paper (1 in UG & 1 in PG) in any areas of Technical Textiles
		(i) Procurement of Laboratory Equipment including training for laboratory equipment operation	Maximum INR 7.5 Crore per institute	Maximum INR 15 Crore per institute
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 50 Lakh	Specialized training subject to a ceiling of INR 100 Lakh
2	Civil Engineering/ Infrastructure /Science (including Geotechnical engineering & Water Resources engineering/ Oceanography)	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 2 papers including 1 compulsory paper in Geotextiles applications	Currently teaching/proposed to be teaching atleast 4 papers including 1 compulsory paper in PG in Geotextiles applications
		(i) Procurement of Laboratory Equipment including training for	Maximum INR 4 Crore per institute	Maximum INR 8 Crore per institute



Ministry of Textiles

DRAFT

S. No.	Eligible Department/ Specialization **	Sub-component	Maximum Provision of funding per institute	
			Only Undergraduate	Undergraduate & Postgraduate***
		laboratory equipment operation		
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 30 Lakh	Specialized training subject to a ceiling of INR 60 Lakh
3	Agriculture/ Agricultural Engineering/ Technology (including Aquaculture, Horticulture)	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 2 papers including 1 compulsory paper in Agrotextiles applications	Currently teaching/proposed to be teaching atleast 4 papers including 1 compulsory paper in PG in Agrotextiles applications
		(i) Procurement of Laboratory Equipment including training for laboratory equipment operation	Maximum INR 4 Crore per institute	Maximum INR 8 Crore per institute
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 30 Lakh	Specialized training subject to a ceiling of INR 60 Lakh
4	Medicine/ Bio-Medical Engineering/ Biotechnology	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 2 papers including 1 compulsory paper in Medical textiles	Currently teaching/proposed to be teaching atleast 4 papers including 1 compulsory paper in PG in Medical textiles
		(i) Procurement of Laboratory	Maximum INR 4 Crore per institute	Maximum INR 8 Crore per institute



Ministry of Textiles

DRAFT

S. No.	Eligible Department/ Specialization**	Sub-component	Maximum Provision of funding per institute	
			Only Undergraduate	Undergraduate & Postgraduate***
		Equipment including training for laboratory equipment operation		
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 30 Lakh	Specialized training period subject to a ceiling of INR 60 Lakh
5	Design/ Civil Engineering (including Structural Engineering)	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 2 papers including 1 compulsory paper in Building textiles or Construction textiles applications	Currently teaching/proposed to be teaching atleast 4 papers including 1 compulsory paper in PG in Building textiles or Construction textiles applications
		(i) Procurement of Laboratory Equipment including training for laboratory equipment operation	Maximum INR 4 Crore per institute	Maximum INR 8 Crore per institute
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 30 Lakh	Specialized training subject to a ceiling of INR 60 Lakh
6	Fashion Technology/ Fashion Design/	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 2 papers including 1	Currently teaching/proposed to be teaching atleast 4 papers including 1



Ministry of Textiles

DRAFT

S. No.	Eligible Department/ Specialization**	Sub-component	Maximum Provision of funding per institute	
			Only Undergraduate	Undergraduate & Postgraduate***
	Occupational Science		compulsory paper in Smart textiles, Protective textiles, Sports textiles, Home textiles, or Cloth textiles applications	compulsory paper in PG in Smart textiles, Protective textiles, Sports textiles, Home textiles, or Cloth textiles applications
		(i) Procurement of Laboratory Equipment including training for laboratory equipment operation	Maximum INR 6 Crore per institute	Maximum INR 12 Crore per institute
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 40 Lakh	Specialized training subject to a ceiling of INR 80 Lakh
7	Mechanical Engineering/ Industrial Engineering/ Production Engineering/ Automobile Engineering/ Aeronautical Engineering & other similar fields	Criterion for receiving the grant	Currently teaching/proposed to be teaching atleast 2 papers including 1 compulsory paper in Mobile Textiles & Industrial Textiles applications	Currently teaching/proposed to be teaching atleast 4 papers including 1 compulsory paper in PG in Mobile Textiles, Industrial Textiles, applications
		(i) Procurement of Laboratory Equipment including training for laboratory equipment operation	Maximum INR 4 Crore per institute	Maximum INR 8 Crore per institute



Ministry of Textiles

DRAFT

S. No.	Eligible Department/ Specialization**	Sub-component	Maximum Provision of funding per institute	
			Only Undergraduate	Undergraduate & Postgraduate***
		(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 30 Lakh	Specialized training subject to a ceiling of INR 60 Lakh

*** At least 50% of the content of the papers shall be focused on Technical Textiles and application areas thereof**

**** Other Specializations concerning above Departments in Column 1 are also eligible**

***** Number of papers (electives) can be in both UG and PG**

B. Development of a Comprehensive Degree Programme (Undergraduate or Postgraduate level) in Technical Textiles			
Specialization		Maximum Provision of funding per institute	
		Only Undergraduate	Undergraduate & Postgraduate
B.Tech/ M.Tech in Technical Textiles	Eligible Institutes	All Institutes as per para 6.1	
	Criterion for receiving the grant	Comprehensive Degree Programme at Undergraduate level with at least 50% of the papers covering Technical Textiles and applications thereof	Comprehensive Degree Programme at Undergraduate and Postgraduate level with at least 50% of the papers covering Technical Textiles and applications thereof
	(i) Procurement of Laboratory Equipment and Training for laboratory equipment operation	Maximum INR 10 Crore per institute	Maximum INR 20 Crore per institute
	(ii) Training/ QIP of Faculty members	Specialized training subject to a ceiling of INR 50 Lakh	Specialized training subject to a ceiling of INR 100 Lakh



DRAFT

6.0 Eligibility and Evaluation for Applicants

(A) For Public Institutes

To avail funds under the scheme has been divided into (1) Qualification Criteria; & (2) Evaluation Criteria for determination of eligibility and selection of Applicants for the funding hereunder, the following shall apply:

6.1(A) Qualification Criteria

- (i) Premier institutes such as IITs, NITs, AIIMs, IISERs, NIFT, NIDs, IISCs, and other premier public institutes in India shall be eligible for applying.
- (ii) All Public Universities including Public Deemed Universities in Engineering/Technology, Agriculture, Medical, Architecture, Design, Fashion Technology (or any other relevant subject domain) are eligible. The University/Institute must have been set up under an Act of the Central Government or concerned State Government. In case of affiliated colleges, the affiliation must be with a Public University only.
- (iii) The University/Institute must be recognized by University Grants Commission, AICTE or be notified as a Deemed University by the respective Government. The University/Institute/College recognition certificate or notification must be enclosed along with the application.
- (iv) The Degree Programme, under which different Technical Textiles' related papers are covered/to be covered, must be in existence on or before Academic Year 2015-16 in regular mode.

(B) For Private Institutes

6.1(B) Qualification Criteria

- (i) The eligibility of Indian Private University/ Institute shall be based on their ranking in the latest National Institute Ranking Framework (NIRF) published by Ministry of Education, Government of India
and
- (ii) The Degree Programme, under which different Technical Textiles' related papers are covered/to be covered, must be in existence on or before Academic Year 2015-16 in regular mode.

6.2 Evaluation Criteria

Post qualifying the eligibility criteria, applications shall be assessed by the Empowered Programme Committee (EPC), constituted as per the Institutional Mechanism of the National Technical Textiles Mission (NTTM)



Ministry of Textiles

DRAFT

6.3 In case the number of applications received are over and above the funding limit, preference shall be given to (in order):

- (i) University/ Institute introducing a full Undergraduate or Post Graduate course in Technical Textiles
- (ii) University/ Institute already having Degree Programme in relevant area as per Para 5.0 (B1 to B6) at both Postgraduate and Undergraduate level.
- (iii) University/ Institute already having Degree Programme in relevant area as per Para 5.0 (B1 to B6) at Postgraduate level only.
- (iv) University/ Institute already having Degree Programme in relevant area as per Para 5.0 (B1 to B6) at Undergraduate level only.

For example, an Engineering Institute with a Degree Programme in Civil Engineering at Postgraduate and Graduate level shall be given preference over an Engineering Institute with a Degree Programme in Civil Engineering at Postgraduate level only.

6.4 The latest National Institute Ranking Framework (NIRF) published by Ministry of Education, Government of India will be the final deciding criteria in case the number of eligible applicants exceeds the available funding, subject to their meeting all other criteria as described above.

6.5 Funding under these guidelines are restricted to 2 applications per Institute/University including introduction of new degree programme in Technical Textiles.

7.0 Application procedure

7.1 Applications may be submitted on the dedicated online education application portal under <http://nttm.texmin.gov.in/> only. Notably, applications received through post or mail shall not be entertained.

7.2 The proposals must be accompanied with the details of total costing and costing of sub-components thereof.

7.3 Applications/Proposals submitted by affiliated colleges should be certified through associated University. Non-certified applications by affiliated colleges shall not be considered for funding, unless complied with.

7.4 A Self-Certified documentary evidence to be submitted in support of eligibility duly signed and stamped by the Dean/Vice-Chancellor/Head of the Institute on the application portal.

7.5 Eligible Universities/ Institutes are requested to submit their proposals/applications as per format with all the requisite documentations **within a period of 45 days from the date of publishing of this document.** An application



Ministry of Textiles

DRAFT

completed in all respects will only be treated as an eligible application, including submission of additional information asked by the Mission Directorate.

7.6 The Empowered Programme Committee (EPC), under the chairmanship of Secretary, Textiles, constituted as per the Institutional Mechanism of the National Technical Textiles Mission (NTTM), will be the final deciding authority with regard to the quantum and type of funding assistance as well as any modification to the criteria as laid down in this document.

8.0 Financial Assistance

8.1 The pattern of assistance will be for all components as approved by the Empowered Programme Committee (EPC) subject to a **ceiling for different sub-components as per para 5.0**

(A) For Public Institutes

8.2 After communication of the 'in-principle' approval, actual transfer of funds will be subject to furnishing of relevant document and process for government funding as laid down from time to time.

(B) For Private Institutes

8.3 After communication of the 'in-principle' approval, actual transfer of funds will be subject to furnishing of relevant documents including Advance Payment Bank Guarantee (refer to para 10.0) and process for government funding as laid down from time to time.

9.0 Procedure for release of grant

(A) For Public Institutes

S. No.	Funding Component	Release of Grant
1.	Laboratory Equipment including training for Laboratory Equipment Operation	<ul style="list-style-type: none"> First 50% of the approved grant after approval of the proposal and submission of relevant documentations. Remaining 50% subject to total value of order placed/purchase liability committed and on submission of purchase order
2.	Training of Faculty Member(s)	<ul style="list-style-type: none"> 100% of the assistance after furnishing documentations in support of a confirmed training arrangement with a reputed Institute in the subject



Ministry of Textiles

DRAFT

(B) For Private Institutes

S. No.	Funding Component	Documentation/Deliverable	Ministry of Textile's Share (%)
1.	Laboratory Equipment including training for Laboratory Equipment Operation	<ul style="list-style-type: none"> First 40% of the approved grant after approval of the proposal and submission of relevant documentations including Bank Guarantee (as per Para 10). 	40%
		<ul style="list-style-type: none"> Next 40% of the approved grant subject to total value of order placed/purchase liability committed and on submission of purchase order 	40%
		<ul style="list-style-type: none"> Remaining 20% of the approved grant on reimbursement basis 	20%
2.	Training of Faculty Member(s)	<ul style="list-style-type: none"> 100% of the approved grant on reimbursement basis (including all taxes and duties) on submission of final bills and documentations in support of a confirmed training with a reputed Institute in the subject 	100%

10.0 Payment guidelines (For Private Institutes only)

10.1 For the purpose of payment of Advances to the selected Institute, submission of Advance Payment Bank Guarantee (APBG) by the Institute, is to be considered.

10.2 **An Advance Payment Bank Guarantee (APBG) of 40% value of the Total Grant under Laboratory Equipment (under Para 9.0 (1)) including taxes and duties, subject to correction and acceptability of the documents submitted, would be furnished by the Institute in the form of a Bank Guarantee** to sequentially act as Advance Payment Bank guarantee till the achievement of all approved milestones under the application of the current guideline. The APBG shall be submitted by the Institute within one month of signing of the Contract/MoU with the Ministry of Textiles and shall be valid for a period, until 6 months beyond the period of the final milestone under the guideline.

10.3 The Bank Guarantee(s) shall be from any Indian Public or Private Scheduled Commercial Bank
