

Annexure 'c'

CV NORMS FOR COATED AND LAMINATED FABRICS VARIOUS

This document list out the essential plant and machinery requirement of coated and laminated fabrics various. This document also list out the essential test equipment requirement of coated and laminated fabrics various.

Scope of Norms is applicable to all types of coated and laminated synthetic fabrics on  
**Essential Plant and Machinery Requirement: -**

Preparatory and Weaving Process:-

1. Winding machine
2. Beam Warming Machine
3. Shuttle less looms capable of weaving 100% synthetic fabrics

*Handwritten note: 100% synthetic*

Processing Machines: - (Wherever applicable)

1. HTHP Dyeing Machine  
OR  
High Temperature High Pressure (HTHP) Jet Dyeing  
OR  
Pad Dry and Thermosol on Loop Agers  
OR  
Pad Dry and Thermosol on Hot-flue
2. Printing: -
  - a) Engraving Department/Exposure Plant
  - b) Rotary Printing Machine
  - c) Loop Ager/Ageing Machine
  - d) Oxidation and washing } OR FLASH AGER MACHINE
3. Calendering Machine
4. Stenter

Coating Machine:-

1. Coating machine :- As per requirement
2. Integrated coating cum laminating machine, wherever applicable
3. Stenter/Padding Mangle:- As per requirement

Note:

In case of non availability of weaving and dyeing /printing set up, firm must have notarised legal tie up with same firm who must possess all the essential weaving and dyeing /printing (wherever applicable) machineries as stipulated in the norms and it should be verified by the CV team.

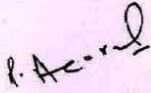
**Essential Test Equipments:-**


1. Conditioning Chamber
2. Weighing Balance
3. Measuring tape/scale
4. Tensile strength tester
5. Thread counter
6. Laundrometer
7. Perspirometer
8. Crockmeter
9. Light fastness tester\*
10. Twist tester
11. Air permeability tester

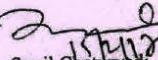
12. Thickness tester
13. Material confirmation test facility
14. Tear strength tester
15. pH meter
16. Spray rating tester
17. Moisture Vapour Transmission Tester\*
18. Flex Tester
19. Test facility for resistance to low temperature
20. Test facility for nature of material and coating
21. Hydrostatic Pressure Head Tester
22. Test facility for accelerated ageing
23. Test facility for Blocking
24. Conditioning chamber for humidity and temperature

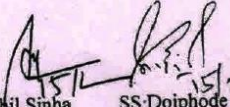
**Note:-**


1. \*If the firm does not have light fastener tester and MVTR tester the firm should have arrangement with NABL accredited lab for Dye fastness to Light and MVTR test for which a letter from NABL accredited lab should be issued to the firm that they are undertaking testing of samples from the firm.
2. The above list of test equipment is illustrative in nature which may or may not be relevant for certain type of fabric. Therefore at the time of capacity verification, the requirement of test equipment may be verified in accordance with test parameters in the specification and test equipment shall have required range to test the required parameters.


  
Prakash Agarawala  
Jt. GM/OEFC

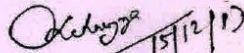
  
Rajiv Shivastava  
Director/OEFHQ

  
Sunil Chaturvedi  
Jt. GM/OPF

  
Sushil Sinha  
JtGM/OCFAV

  
SS-Doiphode  
JtGM/OCFS

  
Rajeev Sharma  
Director/OEFHQ

  
S.K. Acharyya  
DDG/OEFHQ