

CV Norms of “Sub-Assembly of Outer & Inner Jacket of Coat ECC Imp. Ver. (with all input material) and Fabrication of wind cheater (all input material of wind cheater will be provided by OCFS) of Coat ECC Improved Version as per Coat ECC Imp. Ver. Specification No. S/3558/ A/TC- 15/Coat ECC with amendment No. 1 to 6 and as per Annexure- 'A' Scope of Work.”

ITEM/JOB WORK	MANUFACTURING PLANT & MACHINERY		TEST EQUIPMENT		REMARKS
	ESSENTIAL	DESIRABLE	ESSENTIAL	DESIRABLE	
Sub-Assembly of Outer & Inner Jacket of Coat ECC Imp. Ver.	<p>1. Fabric Cutting Table & Fabric Lay Cutting Machine and Single Needle Lock Stitch Sewing Machine</p> <p>2. Arrangement for Plastic Snap Fastener Button Fixation</p> <p>3. Over-locking Machine</p> <p>4. Arrangement for Eyelet Fixation</p> <p>5. The firm must possess all the essential manufacturing & testing facilities {as per the attached 05 (five) CV Norms } for manufacturing all basic input materials (i.e. 1. Outer Shell Fabric Outer Jacket, 2. Inner Filling Insulation Material (Outer Jacket), 3. Inner Lining Knitted Fabric (Outer Jacket), 4. Outer And Inner Shell Fabric (Inner Jacket) and 5. Set of Inner Filling Insulation Material 'A' & 'B' (Inner Jacket) Thermo Plastic Polymer) of Coat ECC Imp. Ver.</p> <p>or</p> <p>The firm must have notarized legal tie up with the firm(s) who must possess all the essential manufacturing & testing facilities {as per the attached 05 (five) CV Norms} for manufacturing all basic input materials (i.e. 1. Outer Shell Fabric Outer Jacket, 2. Inner Filling Insulation Material (Outer Jacket), 3. Inner Lining Knitted Fabric (Outer Jacket), 4. Outer And Inner Shell Fabric (Inner Jacket) and 5. Set of Inner Filling Insulation Material A' & B' (Inner Jacket) Thermo Plastic Polymer) of Coat ECC Imp. Ver. required for Complete Sub-Assembly of Outer & Inner Jacket of Coat ECC Imp. Ver. as per Specification No. S/3558/ A/TC- 15/Coat ECC with amendment No. 1 to 6 and as per Annexure- 'A' Scope of Work.</p>	---	Measuring Tape	---	

Encl.- As above

CV NORMS FOR COATED AND LAMINATED FABRICS VARIOUS

This documents list out the essential plant and machinery requirement of coated and laminated fabrics various. This documents 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 fabrics on any substrate

Essential Plant and Machinery Requirement:-

Preparatory and Weaving Process:-

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

Processing Machines: - (Wherever applicable)

1. HTHP Dyeing Machine
OR
High Temperature High Pressure (HTHP) Jet Dyeing or any advanced machine.
OR
Pad Dry and Thermosol on Loop Agers
OR
Pad Dry and thermosol on Hotflue or any advanced machine.
2. Printing:- (Wherever applicable)
 - a) Engraving Department/Exposure Plant
 - b) Rotary Printing Machine
 - c) Loop Ager/Ageing Machine
 - d) Oxidation and washing } OR FLASH AGER MACHINE
3. Calendaring Machine
4. Stenter

Coating/Laminating Machine:-

1. Coating/Laminating Machine: As per requirement.
2. Integrated coating cum laminating machine, wherever applicable
3. Stenter/Curing Machine: As per requirement.

Note:-

1. In case of non-availability of weaving and dyeing/printing set up, firm must have valid legal tie up of 03 years with other firm having weaving and Dyeing/printing set up. Legal agreement documents will be submitted by the firm applying for registration.
2. An undertaking by the firm having legal agreement for the weaving facilities will be submitted in the requisite format to agree that in the case of securing the order against a tender enquiry, firm will submit the documentary evidence in the form of invoices/e-way bills for utilizing the weaving facility with the legal tie up firm.
3. If the firm does not possess any of the essential Plant & Machinery, then it should not be recommended for registration.
4. Firm must possess valid pollution consent/clearance certificate from respective State Pollution Control Board.

Essential Test Equipments:-

1. Conditioning Chamber.
2. Weighing Balance.
3. Measuring scale/Measuring tape

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

Note:-

1. Outsourcing arrangement with NABL accredited lab is allowed only for the test parameter such as Colour fastness to Light/Moisture Vapour Transmission Tester. In this regard, registering firm shall submit a letter issued from NABL accredited lab to the firm that they are undertaking testing of samples received from the firm and the test parameter is within their scope of accreditation. If the firm does not possess any of the essential test equipments as per requirement of specification except the parameters for which outsourcing from NABL accredited lab has been permitted, then it should not be recommended for registration.
2. Controlled Atmosphere of Laboratory for humidity & temperatures is an essential requirement.
3. 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 registration process, the requirement of test equipment in accordance with test parameters in the specification and the test equipment shall have required range to test the required parameters, to be checked from the firm's submitted documents.
4. Firms to give the declaration for supplying the materials with the same legal tie up firm (Wherever legal tie-up has been permitted) having validity of legal tie up for minimum 03 years.
5. At the time of supply of material by the firm having secured a contract, firm should forward the necessary documents like e-way bill, commercial invoice issued by legal tie up firm along with the firm's own invoice so as to authenticate/verify the receipt of material from the same legal tie up firm.
6. Vendor shall also give an undertaking in the prescribed format regarding complete understanding of specification requirement and other requirement as mentioned in the item.
7. In case of falsification of documents and other instances, firm will be De-registered for the period of 03 years for entire range of products for any category.
8. CV norms are generic in nature and are to be used as criteria for consideration of any firm registered for any item of a particular category. Therefore, if a firm is registered for any item, it will be considered as registered for all the similar items (as notified) falling under that CV norms category.

CV Norm of INNER FILLING INSULATION MATERIAL (OUTER JACKET)

SL. NO	ITEM	MANUFACTURING PLANT & MACHINERY		TEST EQUIPMENTS		REMARKS
		ESSENTIAL	DESIRABLE	ESSENTIAL	DESIRABLE	
01.	INNER FILLING INSULATION MATERIAL (OUTER JACKET)	<ol style="list-style-type: none"> Suitable Manufacturing facility for making Thermo Plastic Polymer insulation Batting Sheet Facility to attach Non-woven scrim (liner) fabric Cutting Winding 	Non-Woven scrim (liner) fabric making facility	<ol style="list-style-type: none"> Nature of Material test facility Conditioning Chamber Thickness Tester Test facility for Thermal Insulation (Clo Value) Weighing Balance Compression Recovery Test Facility Tensile strength Tester Test facility for Resistance to Blocking 		

*Note: - If the firm having tie-up with a foreign supplier for the subject item, in that case the firm should have to submit the valid authorization document for such tie-up. However, it will be the discretion of competent authority regarding consideration of such authorization document.

CV Norm of INNER LINING KNITTED FABRIC (OUTER JACKET)

SL. NO	ITEM	MANUFACTURING PLANT & MACHINERY		TEST EQUIPMENTS		REMARKS
		ESSENTIAL	DESIRABLE	ESSENTIAL	DESIRABLE	
01.	INNER LINING KNITTED FABRIC (OUTER JACKET)	1. Knitting Machine 2. HTHP Dyeing Machine		1. Nature of Material test facility 2. Conditioning Chamber 3. Weighing Balance 4. Bursting Strength Tester 5. Water Vapour Resistance Test Facility 6. Test Facility for Dimensional Stability 7. Thread Counter 8. Laundrometer 9. Perspirometer 10. Crock Meter		

CV NORMS FOR 100% SYNTHETIC FABRICS VARIOUS

This documents list out the essential plant and machinery requirement of 100% Synthetic fabrics various. This documents also list out the essential test equipment requirement of 100% Synthetic fabrics various.

Essential Plant and Machinery Requirement:-

Preparatory and Weaving Process:- (*See Note below)

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

Processing Machines:- (Wherever applicable) (*See Note below)

1. HTHP Dyeing Machine
OR
High Temperature High Pressure (HTHP) Jet Dyeing or any advanced machine.
OR
Pad Dry and Thermosol on Loop Agers
OR
Pad Dry and thermosol on Hotflue or any advanced machine.
2. Calendaring Machine
3. Special Finish Application (Silicone finish etc.) (Wherever applicable)
 - a) Three Bowl padding Mangle
 - b) Drying Range
 - c) Curing/Polymerizer
4. Stenter

Note:-

1. If the firm does not possess any of the essential Plant & Machinery, then it should not be recommended for registration.
2. Firm must possess valid pollution consent/clearance certificate from respective State Pollution Control Board.
- 3*. For Parachute fabric, weaving and processing set up is mandatory. For other fabrics the firm shall have processing facility as mandatory and for weaving, it may have legal agreement valid for minimum 03 years period with the firm having weaving capability. Legal agreement documents will be submitted by the firm applying for registration.
4. An undertaking by the firm having legal agreement for the weaving facilities will be submitted in the requisite format to agree that in the case of securing the order against a tender enquiry, firm will submit the documentary evidence in the form of invoices/e-way bills for utilizing the weaving facility with the legal tie up firm.

Essential Test Equipments:-

1. Conditioning Chamber
2. Weighing Balance
3. Measuring scale/Measuring tape
4. Tensile Strength tester
5. Thread Counter
6. Laundrometer
7. Perspirometer
8. Crockmeter
9. Light fastness Tester
10. Twist Tester
11. Air Permeability Tester (if required as per specification)
12. Thickness Tester

13. Material Confirmation test facility
14. Tear Strength Tester
15. pH Meter
16. Flex meter for resistance to flexing
17. Hot Air Oven

Note:-

1. Outsourcing arrangement with NABL accredited lab is allowed only for the test parameter such as Colour fastness to Light. In this regard, registering firm shall submit a letter issued from NABL accredited lab to the firm that they are undertaking testing of samples received from the firm and the test parameter is within their scope of accreditation. If the firm does not possess any of the essential test equipments as per requirement of specification except the parameters for which outsourcing from NABL accredited lab has been permitted, then it should not be recommended for registration.
2. Controlled Atmosphere of Laboratory for humidity & temperatures is an essential requirement.
3. 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 registration process, the requirement of test equipment in accordance with test parameters in the specification and the test equipment shall have required range to test the required parameters, to be checked from the firm's submitted documents.
4. Firms to give the declaration for supplying the materials with the same legal tie up firm (Wherever legal tie-up has been permitted) having validity of legal tie up for minimum 03 years.
5. At the time of supply of material by the firm having secured a contract, firm should forward the necessary documents like e-way bill, commercial invoice issued by legal tie up firm along with the firm's own invoice so as to authenticate/verify the receipt of material from the same legal tie up firm.
6. Vendor shall also give an undertaking in the prescribed format regarding complete understanding of specification requirement and other requirement as mentioned in the item.
7. In case of falsification of documents and other instances, firm will be De-registered for the period of 03 years for entire range of products for any category.
8. CV norms are generic in nature and are to be used as criteria for consideration of any firm registered for any item of a particular category. Therefore, if a firm is registered for any item, it will be considered as registered for all the similar items (as notified) falling under that CV norms category.

CV Norm of SET OF INNER FILLING INSULATION MATERIAL 'A' & 'B' (INNER JACKET) THERMO PLASTIC POLYMER

SL. NO	ITEM	MANUFACTURING PLANT & MACHINERY		TEST EQUIPMENTS		REMARKS
		ESSENTIAL	DESIRABLE	ESSENTIAL	DESIRABLE	
01.	SET OF INNER FILLING INSULATION MATERIAL 'A' & 'B' (INNER JACKET) THERMO PLASTIC POLYMER	<ol style="list-style-type: none"> 1. Bale Opener 2. Blender 3. Blower 4. Hopper Feeder 5. Carding Machine 6. Chute Feeder 7. Conveyor 8. Cross Lapper 9. Cooler 10. Cutting 11. Winding 		<ol style="list-style-type: none"> 1. Nature of Material test facility 2. Conditioning Chamber 3. Thickness Tester 4. Test facility for Thermal Insulation (Clo Value) 5. Weighing Balance 6. Compression Recovery Test Facility 7. Tensile strength Tester 8. Test facility for Resistance to Blocking 		

*Note:- If the firm having tie-up with a foreign supplier for the subject item, in that case the firm should have to submit the valid authorization document for such tie-up. However, it will be the discretion of competent authority regarding consideration of such authorization document.