



सत्यमेव जयते

भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन

Government of India - Ministry of Railways
RESEARCH DESIGNS & STANDARDS ORGANISATION

DOCUMENT NO. TDG 0011, Rev. '0'

**ITEM SPECIFIC GUIDELINES
FOR MANUFACTURE OF
FIBRE GLASS CLOTH WOVEN ROVING- 360**

Price: Rs. 360/-

गुणवत्ता आश्वासन सिविल निदेशालय

अनुसंधान अभिकल्प और मानक संगठन
मानक नगर, लखनऊ -226011

**QUALITY ASSURANCE CIVIL DIRECTORATE
RESEARCH DESIGNS & STANDARDS ORGANISATION
MANAK NAGAR, LUCKNOW – 226011**

Schedule of Technical Requirements for manufacture of Fibre Glass Cloth Woven Roving – 360

1. General and manufacturing facilities required:

- 1.1 Adequate covered and uncovered area for storage of raw and finished material. General working condition i.e. proper lighting, ventilation and cleanness etc.
- 1.2 Looms for weaving.
- 1.3 Pirm winding machine
- 1.4 Warping machine
- 1.5 Folding Machine
- 1.6 Pick Glass
- 1.7 Electronic micro balance
- 1.8 Weighing Balance
- 1.9 Pressure micro meter
- 1.10 Steel tape/scale
- 1.11 Oven
- 1.12 Muffle furnace
- 1.13 Tensile testing machine 500 kg. Capacity

- 2 Material:** The fabrics shall be manufactured fro roving conforming to type I of IS:11320 1985. The fabric shall comply with the requirements given in table-I of IS specification IS: 11273-1992 (Clause 405)

3 Quality control requirements:

There should be a system to ensure:

- 3.1 The traceability of the product from raw material sample to finished product stage.
- 3.2 That there is a QAP for the product detailing various aspects like-Organizational chart, flow process chart and stage inspection details.
- 3.3 That the relevant specification & BIS standards are available with the firm.

4. Packing and marketing:

- 4.1 Each roll shall be individually wrapped in polyethylene film and rolls of fabrics shall be securely packed in parcels or boxes in such a way as to protect them from damage.
- 4.2 Each roll shall be clearly marked with the following:
 - a) The manufacture's name or trade mark if any.
 - b) The fabric's designation as mentioned in Table-I of IS: 11273-1992
 - c) Months and year of manufacture
 - d) Type of resin with which the product is compatible
 - e) The containers may also be marked with the standard mark.

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**TECHNICAL CAPABILITY REASSESSMENT FOR
MANUFACTURE OF FIBRE GLASS CLOTH WOVEN ROVING 360 LAND ROVING
TEX 300 FOR USE IN FABRIATION OF GLUED INSULATED RAIL JOINTS
(Specification No. IS: 11273-1992)**

Note:

- (i) To be filled in by the firm in duplicate attached extra sheet wherever necessary. No Para to be left blank
- (ii) All manufacturing and test facilities to be available in the unit.
- (iii) All enclosures to be signed.

1. SECTION I: GENERAL INFORMATION

1.1. Name of the firm:

1.2. Address:

- (a) Head office
- (b) Works
- (c) Distance of works in km from the nearest Rly station
- (d) Nearest Railway station

1.3 Factory area (sq.m)

- (a) Covered
- (b) Uncovered
- (c) Is the factory site in your name or on rental basis? support with documents (lease deed etc.)

1.4 (a) Telephone nos.

- 1) Head office
- 2) Works

- (b) Telegraphic address / telex address / fax address
 - 1) Head office
 - 2) Works
 - 3) E-Mail address

- 1.5. SSIC / NSIC Regn no. (if any)**
(Furnish photocopy)

- 1.6 Power availability (kVA)**
 - (a) General allotted capacity
 - (b) Standby generator & its capacity, if available
 - (c) Name the party / person in whose name the power is sanctioned & your agreement (support reasonable with documents)

- 1.7 Name of any other unit located in the above premises:**

- 1.8.1 Man power management:**
 - (a) Managerial staff
 - (b) Shop Floor Engineers / Supervisors, (their nos., name Qualifications & services experience)
 - (c) Laboratory in-charge whether full time or part time, indicate their names, qualifications & services
 - (d) Inspection & quality control staff & given their name, Qualification and service experience
 - (e) Workmen
 - 1) Highly skilled
 - 2) Semi-skilled
 - 3) Un-skilled

- 2. SECTION II : TECHNICAL INFORMATION**

- 2.1 Manufacturing measuring facilities**
 - i) Warping machine
 - ii) Looms for weaving

- iii) Pirn winding machine
- iv) Folding machine
- v) Weighting instrument
- vi) Oven
- vii) Weight balance
- viii) Pick glass for measuring the warp & weft in the cloth
- ix) Scale for measuring warp and weft
- x) Pressure micrometer
- xi) Muffle furnace

2.2 Testing facilities

- i) Tensile test / testing machine
 - a) Capacity :
 - b) Make :
 - c) In-house calibration facilities :
- ii) Dimensional check facilities inspection gauges:

2.3 Laboratory-cum-inspection room

- i) Indicate available in yes / no: :
- ii) If yes, indicate size of room :

2.4 Source of raw material

2.5 Arrangement for storing at a time (in Tonnes)

2.6 Arrangement for storing finished material & capacity to store at a time (in Tonnes)

3. SECTION-III : EXPERIENCE (For Record Purpose Only)

- 3.1 Indicate various types of items being manufactured in your works and the name of the agency / client for whom it is being manufactured.
- 3.2 Indicate important customers for the last 3 years both government and non-government, if any, for information furnished in your reply to 3.1
- 3.3 Give details (contract reference, item and quantity manufactured and supply of important orders executed in the past three years for the following each.
 - i) Govt. deptt. (Central / State), Govt. undertaking other than railway.
 - ii) Directly to the Railways
 - iii) Outside important firms

- 3.4 Please specify current orders in hand on your firm (Contract reference client, item, under Manufacture and supply).
- 3.5 Whether you are already registered with RSSO for other P. way items, if so, name the item supported by documents
- 3.6 Whether you are already registered with RDSO for items other p.way items, if so, name the item and department with which you are registered, support with documents.
- 3.7 Indicate annual turnover of your company.

4.0 DECLARATION

- 4.1 We do hereby declare that the above that the above particulars are correct and no discrepancy shall be found during actual investigation before and during execution of order on our firm.
- 4.2 Any change in the plant and machinery and change of place of office and of works site shall be brought to the notice of RDSO for clearance and approval.
- 4.3 We also declare that our concern has not been black listed by Railway, Railway Board/RDSO for business with the Railways.
- 4.4 We hereby undertake that all our equipments for manufacturing and testing as listed above shall be maintained in good working order at all times.

Signature

Name in full of Signing Authority

Status in the Firm,

Place

Date

Stamp of the firm.