**Objective: Create a data entry form/table to record fabric testing details.**

\*The sheet should automatically capture entry dates, allow dropdown selections for certain fields, and store test results in a structured way.

\*Fields to Include:

Sample Receive Date → Auto-filled with current date when entry is made Test Month, → Receive Time, →Month With Year (October-2025), →Present Status → Dropdown entry (e.g., Pending, Completed, In Progress)

**“Report No Dynamic Change→ unique ID containing TIL-(Current date-following 25(year), 10(Month), 02(Day)-001,002, 003…….. auto generate based on each sample entry(e.g TIL-251002-001)**

Buyer → Dropdown list entry, Order → Manual entry, Batch No → Manual entry, Color → Manual entry, Fabric Type → Dropdown list entry, Fabric Dia → Numeric entry (in inches or cm) Fabric Weight → Numeric entry (g/m² or gsm), Dimensional Stability Test Result ‘’Length (numeric, % change) ‘’Width (numeric, % change), ‘’Spirality (numeric, % change or degree) Roll No → Manual entry, Batch No → Manual entry, Dry Process → Dropdown list {Line Dry, Flat Dry, Tumble Dry} → List Pilling Result → Manual entry (Grade 1–5) Bursting Result → Numeric entry (kPa) Overall Result → Dropdown list {Pass, Fail},

CF TO Wash→ Manual entry, Color Change (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

Color Staining (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

CF TO WATER→ Manual entry Color Change (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

Color Staining (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

CF TO PERSPIRATION→ Manual entry

ACIDIC- Color Change (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

Color Staining (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

ALKALINE- Color Change (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

Color Staining (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

CF TO RUBBING →Manual entry

Color Staining DRY RUB (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

Color Staining WET RUB (Grade 1, 1-2, 2, 2-3, 3, 3-4, 4, 4-5, 5)

pH Value →Manual entry (numeric value, e.g 4.0, 4.5, 5.0)

Above all the results will be calculated based on Test Requirement, if the result not meet the given criteria the result will show fail in Overall Result column, and the result which fields are not meet the criteria will automatically bold with red mark in cell.

**Core Features**

Based on requirements, the software will have:

1. **Data Entry Form**
   * Fields for all required inputs (numbers, text, dates, measurements).
   * Dropdowns for standardized inputs.
2. **Auto-Validation & Criteria Check**
   * As soon as a value is entered, it checks against standard criteria.
   * Highlight invalid values (red), correct automatically if possible, or suggest corrections.
3. **Auto-Calculation**
   * Calculate percentages, pass/fail, totals, etc.
4. **Reports & Dashboards**
   * Generate summary reports (PDF/Excel).
   * Dashboards to see trends buyer-wise, product-wise, length-wise, width-wise, etc.
5. **User Management (Optional)**
   * Login system for multiple users with different access levels.

**3. Database**

* Store all data in a **local database** (simple, no server required) or **MS SQL Server** for enterprise use.
* Tables: Users, Data Entries, Standards, Reports.