

# Test Case Management System (TMS)

## Overview

The Test Case Management System (TMS) is a web-based application designed to manage test cases, projects, and their relationships. It allows users to map test cases to projects, execute tests, record results, and generate various reports. The application also includes an admin interface for user management.

## Features

### 1. User Authentication

- **Login:** Users can log in using their email and password.
- **Admin Access:** Admin users have additional privileges, such as managing users.
- **Logout:** Users can securely log out of the system.

Test Management System

View and add Test cases

View and Add Projects

Map Test cases to Project

View Test cases by Project

Enter Test Results

View Test Results

View testcases with No Results

Download all data as JSON

Download Test Results as CSV

LOGOUT

Test Management System

5 Projects

548 Testcases

280 Test Results

21 Users

## 2. Test Case Management

- **Add Test Cases:** Users can create new test cases by providing:
  - Name
  - Test Category
  - Description
  - Steps
  - Expected Result
  - Whether the test is automated
- **View Test Cases:** Users can view all test cases in the system.

Test Management System

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LOGOUT

View and Add Test Cases

Show 

10

 entries

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Search:

ID	Name	Category	Description	Steps	Expected Result	Automated?
1	Insulation Resistance Test-1	Type Test	1) Meter will remain in Power-off condition 2) IR tester With 500 ± 50V DC 3) Test duration : 1Min. 4) Test For whole current meter and transformer operated meter	1. Apply 500 ± 50V between all circuits (including auxiliary circuits) and earth, all the auxiliary circuits whose voltage is below 40V should be earthed.(For all type of meters). Note: Earthing should be done by cover the whole body of the meter with copper or aluminium foil only. It should not be done by soldering wire. 2. Use Type test procedure under folder named as Val_TTP_1101. 3. Use Type test template for test result under folder named as Val_TTR_1102.	1)No flash-over should occur. 2)Accuracy of the meter and Communication with all the port should be working properly after the test. 3) Insulation resistance should be greater than 5MΩ	0%
2	Insulation Resistance Test-2	Type Test	1)Meter will remain in Power-off condition 2)IR tester With 500 ± 50V DC 3) Test duration : 2Min. 4) For transformer operated meter only	1. Between voltage and current circuit with all the auxiliary whose voltage is below 40V should be earthed (For CT-operated meters only). 2. Use Type test procedure under folder named as Val_TTP_1101. 3. Use Type test template for test result under folder named as Val_TTR_1102.	1)No flash-over should occur. 2)Accuracy of the meter and Communication with all the port should be working properly after the test. 3) Insulation resistance should be greater than 50MΩ	0%
3	AC High Voltage Test-1	Type Test	1)Meter will remain in Power-off condition 2) High voltage source with 4.1 KV 3) Test duration : 1Min.	1. Apply high voltage (4.1 KV) Between all circuit (including auxiliary circuits) and earth, all the auxiliary circuits whose voltage is below 40V should be earthed. (For all type of meters). *Earthing should be done by cover the whole body of the meter with copper or aluminium foil only.	1)No flash-over should occur. 2)Accuracy of the meter and Communication with all the port should be working properly after the test.	0%

Val\_TTP\_1101. 3. Use Type test template  
for test result under folder named as  
Val\_TTR\_1102.

Showing 1 to 10 of 548 entries

Previous

1

2

3

4

5

...

55

Next

TestCase Name

Brief Description

TestcaseCategory

TestcaseSteps

TestcaseExpectedResult

TestcaseAutomated

Add Test Case

## 3. Project Management

- **Add Projects:** Users can create new projects by providing:
  - Name
  - Description
- **View Projects:** Users can view all projects in the system.

Test Management System

View and add Test cases

View and Add Projects

Map Test cases to Project

View Test cases by Project

Enter Test Results

View Test Results

View testcases with No Results

Download all data as JSON

Download Test Results as CSV

LOGOUT

View and Add Projects

Showing 10 entries

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Search:

Project ID	Project Name	Description	Date	Creator
1	GSL04A-BH	EESL, B, 1P2W smart meter, 240V, 10-60A, CL1.0, 3200 imp/kWh	2021-11-25 12:37:57	devesh.pandey@genus.in
2	GNER3090A	AEGCL, B, 3P,4W, 1-2A, 63.5V 0.2S, ABT, 200 imp/unit	2021-11-25 17:16:31	devesh.pandey@genus.in
3	GIPS172	PSPCL, B, 1 Phase, 240V, 10-60A, CI 1.0, Non-Ami	2021-11-29 10:55:46	devesh.pandey@genus.in
4	GAPL01B	Adani power Ltd , B, 3P/4W whole current smart meter, 20-100A, Class 1, 240V	2021-11-29 11:19:57	ganesh.sharma@genus.in
5	G1483	AVVNL,B,3Ph-4W,63.5 Volt ,5-10A, CI-0.5S,120imp/unit	2021-12-02 15:15:48	vinay.gupta@genus.in

Showing 1 to 5 of 5 entries

Previous

1

Next

New Project

Brief Description

Add Project

# 4. Mapping Test Cases to Projects

- **Map Test Cases:** Users can map test cases to specific projects.
- **View Mappings:** Users can view the test cases mapped to each project.

Test Management System

View and add Test cases

View and Add Projects

Map Test cases to Project

View Test cases by Project

Enter Test Results

View Test Results

View testcases with No Results

Download all data as JSON

Download Test Results as CSV

LOGOUT

Map Testcases to Project

Select Projects

-- Select Project --

-- Select Project --

GSL04A-BH

GNER3090A

GIPS172

GAPL01B

G1483

cases

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Search:

	ID	Name	Description	Category	Steps	Expected Result	Automated?
<input type="checkbox"/>	1	Insulation Resistance Test-1	1) Meter will remain in Power-off condition 2) IR tester With 500 ± 50V DC 3) Test duration : 1Min. 4) Test For whole current meter and transformer operated meter	Type Test	1. Apply 500 ± 50V between all circuits (including auxiliary circuits) and earth, all the auxiliary circuits whose voltage is below 40V should be earthed,(For all type of meters). Note: Earthing should be done by cover the whole body of the meter with copper or aluminium foil only. It should not be done by soldering wire. 2. Use Type test procedure under folder named as Val_TTP_1101. 3. Use Type test template for test result under folder named as Val_TTR_1102.	1)No flash-over should occur. 2)Accuracy of the meter and Communication with all the port should be working properly after the test. 3) Insulation resistance should be greater than 5MΩ	0%
<input type="checkbox"/>	2	Insulation Resistance Test-2	1)Meter will remain in Power-off condition 2)IR tester With 500 ± 50V DC 3) Test duration : 2Min. 4) For transformer operated meter	Type Test	1. Between voltage and current circuit with all the auxiliary whose voltage is below 40V should be earthed (For CT-operated meters only). 2. Use Type	1)No flash-over should occur. 2)Accuracy of the meter and Communication with all	0%

# 5. Test Execution and Results

- **Add Test Results:** Users can record the results of test executions, including:
  - Result Description
  - Configuration Information
  - Tester Name
  - Execution Date
  - Pass/Fail Status

## Enter Test Results

Select Projects

-- select Project -- Select Project

GIPS172

Show 10 entries

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Search:

(ID)	Name						
Category	Description	Result Description	Config Info	Tester	When Executed	Pass_fail	
(102)	Single wire Feature_Disable after Seal Track				dd-----yyyy		
Special test	1) Feature disable after FG and seal track 2) Only for 1 phase meter Energy should not increased and single wire tamper should not occurred						
(103)	Single wire Feature_ Enable after on/off				dd-----yyyy		
Special test	1) Feature enable after on/off 2) Only for 1 phase meter Energy should be increased and single wire tamper should be occurred						
(104)	Single wire Feature_Meter run at single wire for 5-6 hours				dd-----yyyy		
Special test	1) Meter run at single wire for 5-6 hours 2) Only for 1 phase meter Energy, MD,Tamper, Load survey data should not get corrupted after the test. Meter should not calculate MD						

- **View Test Results:** Users can view test results for specific projects or test cases.

Test Management System

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## View Test Results by Project

Select Projects

-- select Project -- Select Project

GNER3090A

Show 10 entries

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Search:

Project Name	Test Category	Testcase Name Description	Result Description	Config Info Tester	Test Date	Verdict?
GNER3090A AEGCL B, 3P,4W, 1-2A, 63.5V 0.2S, ABT, 200 imp/unit	BCS (Partial)	Meter FG & Seal track The test is for 3phase/1Phase meters	1. GNER3090B FG compare with GNER3090A, only serial number and name of project is changed.. 2. Serial number is displayed at display. 3. All data is zero in BCS and HR mode. 4. Quantity matched with PPI. 5. Tamper count is zero. 6. Parameters are as per CT ratio.	Rev 23 Akshay Jain	2021-12-01	Pass
GNER3090A AEGCL B, 3P,4W, 1-2A, 63.5V 0.2S, ABT, 200 imp/unit	BCS (Partial)	Name plate/General parameter The test is for 3Phase/1Phase meters	1)Np verified 2)name plate profile is as per required, (3) Bill date and cycle set as per given. (4) Manufacturing month and year showing correct	rev 23 Akshay Jain	2021-11-23	Pass
GNER3090A AEGCL B, 3P,4W, 1-2A, 63.5V 0.2S, ABT,	BCS	Neutral current The test is for 3Phase (if required)/1Phase meters	Neutral current not given	rev 23 akshay jain	2021-11-23	NA

## 6. Reporting

- **Test Results by Project:** Generate reports of test results for a specific project.

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Enter Test Results

View Test Results

View testcases with No Results

Download all data as JSON

Download Test Results as CSV

LOGOUT

View Test Results by Project

Select Projects

-- select Project --

Select Project

GNER3090A

Show 10 entries

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Search:

Project Name	Test Category	Testcase Name	Result Description	Config Info	Test Date	Verdict?
Description		Description		Tester		
GNER3090A AEGCL B, 3P,4W, 1-2A, 63.5V 0.2S, ABT, 200 imp/unit	BCS (Partial)	Meter FG & Seal track The test is for 3phase/1Phase meters	1. GNER3090B FG compare with GNER3090A, only serial number and name of project is changed.. 2. Serial number is displayed at display. 3. All data is zero in BCS and HR mode. 4. Quantity matched with PPI. 5. Tamper count is zero. 6. Parameters are as per CT ratio.	Rev 23 Akshay Jain	2021-12-01	Pass
GNER3090A AEGCL B, 3P,4W, 1-2A, 63.5V 0.2S, ABT, 200 imp/unit	BCS (Partial)	Name plate/General parameter The test is for 3Phase/1Phase meters	1)Np verified 2)name plate profile is as per required, (3) Bill date and cycle set as per given. (4) Manufacturing month and year showing correct	rev 23 Akshay Jain	2021-11-23	Pass
GNER3090A AEGCL B, 3P,4W, 1-2A, 63.5V 0.2S, ABT,	BCS	Neutral current The test is for 3Phase (if required)/1Phase meters	Neutral current not given	rev 23 akshay jain	2021-11-23	NA

- Test Cases Without Results:** Identify test cases that have not been executed or do not have results.

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LOGOUT

View Testcases with No Results

Select Projects

-- select Project --

Select Project

GNER3090A

Show 10 entries

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Search:

ID	Name	Description	Category	Steps	Expected Result	Automated?
44	Battery Related test_Gradually discharged at Vr=0 with Ir=0	1. Battery is gradually discharged at Vr=0 with Ir=0 2. The Test is for 3Ph/1Ph.	Special test	1) Download Initial Energy of Meter. 2) Connect 50Q resistance across main battery of meter and note down energy of meter. 3) Put meter in respective condition overnight. 4) Download final Energy of Meter .	1) No energy increment should takes place. 2) No abnormal behaviour should be observed of the meter after the test. 3) RTC of meter should be OK	0%
45	Battery Related test_Gradually discharged at Vref and Ib	1. Battery is gradually discharged at Vref and Ib 2. The Test is for 3Ph/1Ph.	Special test	1) Download Initial Energy of Meter. 2) Connect 50Q resistance across main battery of meter and note down energy of meter. 3) Put meter in respective condition overnight. 4) Download final Energy of Meter .	1)Meter energy should not Corrupt. 2) RTC of meter should not corrupt. 3) Communication should be OK.	0%
46	Battery Related test_Gradually discharged with Auto Power cycle	1. Battery is gradually discharged with Auto Power cycle 2. The Test is for 3Ph/1Ph.	Special test	1) Apply Vref and Ib to meter 2) Download all data through bcs after test. 3) Connect 50Q (Quarter Watt) resistance across main battery of the meter. 4) Set Power On time 70 seconds and Power off time 300mSec to 3 sec (300msec,1800msec, 3000msec) each cycle power off time will be increased for 4	1) Meter RTC should not get slow or fast or corrupted. 2) Meter Energy ,MD,Load Survey etc. should not corrupted.	0%

- Download All Data:** Export all data (projects, test cases, mappings, and test results) as a JSON file.
- Download Test Results:** Export test results as a CSV file.

## 7. Admin Features

- **User Management:**
  - Add New Users: Admins can create new user accounts.
  - Update User Passwords: Admins can reset passwords for existing users.
  - View All Users: Admins can view a list of all registered users.

## Workflow

### 1. Login

- Users log in using their email and password.
- Admin users are redirected to the "New User" page, while regular users are redirected to the "About" page.

### 2. Test Case Management

- Navigate to the "Test Cases" page to add or view test cases.
- Fill in the required fields to create a new test case.

### 3. Project Management

- Navigate to the "Projects" page to add or view projects.
- Fill in the required fields to create a new project.

### 4. Mapping Test Cases to Projects

- Navigate to the "Map Test Cases to Projects" page.
- Select a project and choose test cases to map to it.

## 5. Test Execution and Results

- Navigate to the "Test Results" page.
- Select a project and add test results for its mapped test cases.

## 6. Reporting

- Use the "Test Results by Project" page to view detailed test results for a specific project.
- Use the "No Results" page to identify test cases without results.
- Use the "Download All" or "Download Results" options to export data.

## 7. Admin Workflow

- Admin users can navigate to the "New User" page to manage user accounts.
- Admins can add new users or update passwords for existing users.